C1333P

User's Guide

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Contents

About the Machine 2

Supported Functions and Options 3

Paper Feeder PF-K 5

System Options 6

Registering License 7

System Manager ID and PIN 9

Measures to Prevent Unauthorized Access 10

Names of Parts and Their Functions 12

Front Side 13

Rear Side 15

Interior 16

Operation Panel 17

Multi-purpose Tray 19

Paper Drawer 20

Usable Paper 21

Precautions When Handling Paper 25

Specifications 26

Basic Specifications 27

Print Specifications 29

Network Specifications 32

Security and Management Function Specifications 33

Supported Environment 37

Recommended Functions 38

Cost Savings 39

Making Operations More Efficient 40

Setting Up 42

Configuring the Default Settings (Setup Guide) 43

Setting Up the Network 46

Selecting Wired or Wireless LAN 48

Connecting to a Wired LAN 49

Connecting to a Wireless LAN 50

Connecting to a Wireless LAN by Using the Router Button (Push Button Mode) 53

Connecting to a Wireless LAN by Entering a PIN Code (WPS PIN Code Mode) 54

Connecting to a Wireless LAN by Searching for a Router (Access Point Setup Method) 56

Connecting to a Wireless LAN by Setting the Details (Manual Setup Method) 58

Setting IPv4 Addresses 61

Setting IPv6 Addresses 63

Configuring Your Machine for Your Network Environment 65

Manually Configuring the Ethernet Settings 66

Configuring DNS 67

Configuring SMB 70

Configuring WINS ... 71
Configuring SNMP ... 72
Configuring SNTP ... 75
Configuring SLP Communication ... 77
Checking the Network Status and Settings ... 79
Installing Software and Drivers to the Computer ... 82

Basic Operations ... 84

Turning ON and OFF the Machine ... 85
Turning ON the Machine ... 86
Turning OFF the Machine ... 87
Restarting the Machine ... 90
Reducing Power Consumption (Sleep Mode) ... 92
Using the Operation Panel ... 94
Screens Displayed on the Operation Panel ... 95
[Home] Screen ... 97
[Status Monitor] Screen ... 99
How to Operate the Operation Panel ... 101
Entering Characters ... 104
Customizing the [Home] Screen ... 106
Rearranging the Buttons and Renaming the Tabs (Remote UI) ... 107
Logging In to the Machine ... 110
Loading Paper ... 111
Loading Paper in the Paper Drawer ... 112
Loading Paper in the Multi-purpose Tray ... 117
Preparations and Orientation for Loading Envelopes ... 120
Orientation for Loading Paper with a Logo ... 122
Specifying the Paper Size and Type ... 124
Setting the Paper Size and Type for the Paper Drawer ... 125
Setting the Paper Size and Type for the Multi-purpose Tray ... 127
Registering a Frequently Used Paper Size and Type for the Multi-purpose Tray ... 129
Registering Non-standard Size Paper (Custom Paper) ... 132
Hiding Unused Paper Sizes ... 133
Using the Appropriate Paper Source for Each Function ... 134
Inserting and Removing a USB Memory Device ... 135
Changing the Default Settings ... 137
Changing the Default Settings ... 138
Adjusting the Sound Volume ... 139
Adjusting the Volume ... 140
[Volume Settings] Screen ... 141

Printing ... 143

Printing Preparations ... 145
Preparing to Print from a Computer ... 146
Configuring a Printer Port (Windows) ... 149

Setting Up a Print Server ... 152
Preparations for Using Universal Print ... 155
Registering the Machine to Cloud Service ... 156
Registering the Machine to the Computer ... 159
Preparing to Print from a USB Memory Device ... 160
Preparing to Receive and Print I-Faxes ... 161
Printing from a Computer ... 163
Registering Non-standard Size Paper to the Computer (Custom Size) ... 166
Printing a Document Secured with a PIN (Secure Print) ... 168
Changing the Time Period That Print Data with a PIN (Secure Data) Is Saved ... 171
Enabling Secure Print in a Printer Driver (macOS) ... 172
Printing with Universal Print ... 173
Printing from a USB Memory Device (Memory Media Print) ... 174
Screen for Selecting Files in USB Memory Device ... 176
Memory Media Print Settings ... 177
Receiving and Printing I-Faxes ... 183
Changing the Print Settings of the Received I-Fax ... 184
Canceling Printing ... 185
Viewing the Print Job Status and Log ... 187

Linking with Mobile Devices ... 189

Preparations for Linking with Mobile Devices ... 191
Preparations for Direct Connection ... 192
Preparations for Using AirPrint ... 194
Connecting a Mobile Device to the Machine ... 197
Connecting a Mobile Device via Wireless LAN Router (LAN Connection) ... 198
Connecting a Mobile Device Directly to the Machine (Direct Connection) ... 199
Using a Dedicated Application to Print (Canon PRINT Business) ... 202
Using AirPrint Application to Print Data ... 203
Printing from an Android Device ... 206
Printing from Chromebook or Other Device with Chrome OS ... 208

Security ... 210

Setting the Department ID and PIN for the Administrator ... 211
Authenticating Users and Managing Groups ... 213
Authenticating Users and Managing Groups with Department ID (Department ID Management) ... 214
Registering a Department ID and PIN ... 216
Enabling Department ID Management ... 218
Setting the Department ID and PIN on a Computer ... 219
Confirming Usage by Department ID ... 222
Protecting the Network ... 223
Setting the Firewall ... 224
Changing the Port Number ... 227
Using a Proxy ... 228
Using TLS ... 230

Using IPSec ... 232
Using IEEE 802.1X ... 236
Managing and Verifying a Key and Certificate ... 238
Generating a Key and Certificate ... 239
Generating a Key and Certificate Signing Request (CSR) and Obtaining and Registering a Certificate ... 241
Generating a Key and Obtaining and Registering a Certificate from an SCEP Server ... 244
If an Error Is Displayed in the Certificate Issuance Request Status ... 249
Registering a Key and Certificate or CA Certificate Obtained from an Issuing Authority ... 251
Verifying a Received Certificate with OCSP ... 253
Preventing Leaking Information ... 254
Restricting Use of Memory Media ... 255
Restricting Use from a Mobile Device ... 257
Restricting Printing ... 258
Restricting Printing from a Computer to Secure Print ... 259
Preventing Unauthorized Use ... 260
Restricting Use of Remote UI ... 261
Preventing Connection to Computer via USB Port ... 263
Configuring LPD, RAW, or WSD ... 264
Disabling HTTP Communication ... 266
Applying a Security Policy ... 267
Security Policy Items ... 269

Managing the Machine ... 274

Setting the Date and Time ... 275
Managing the Machine from a Computer (Remote UI) ... 276
Starting Remote UI ... 277
Portal Page of Remote UI ... 280
Checking Usage and Logs with Remote UI ... 282
Monitoring the Usage ... 284
Checking the Number of Printed Pages (Check Counter) ... 285
Printing and Viewing Reports and Lists ... 286
Changing the Report and List Print Settings ... 288
Importing and Exporting the Settings ... 289
Updating the Firmware ... 292
Initializing the Settings and Data ... 295

Settings Menu Items ... 299

[Preferences] ... 300
[Display Settings] ... 302
[Timer/Energy Settings] ... 306
[Network] ... 310
[Wireless LAN Settings] ... 315
[TCP/IP Settings] ... 317
[External Interface] ... 324
[Accessibility] ... 325

[Adjustment/Maintenance] ... 326
[Adjust Image Quality] ... 327
[Auto Correction Settings] ... 329
[Special Processing] ... 331
[Maintenance] ... 337
[Function Settings] ... 338
[Common] ... 340
[Paper Feed Settings] ... 341
[Print Settings] ... 343
[Printer] ... 344
[Printer Settings] ... 345
[PDL Selection (Plug and Play)] ... 375
[Receive] ... 377
[Common Settings] ... 378
[E-Mail Settings] ... 379
[Access Files] ... 380
[Common Settings] ... 381
[Management Settings] ... 386
[User Management] ... 388
[Device Management] ... 389
[Remote UI Settings/Update Firmware] ... 391
[Remote UI Settings] ... 392
[Data Management] ... 393
[Security Settings] ... 395
[Authentication/Password Settings] ... 396
Settings that Can Be Imported and Exported ... 397
[Preferences] ... 398
[Adjustment/Maintenance] ... 402
[Function Settings] ... 403
[Management Settings] ... 406

Maintenance ... 409
Cleaning the Machine ... 411
Cleaning the Surface of the Machine ... 412
Cleaning the Fixing Assembly ... 413
Cleaning the Transfer Belt ... 414
Replacing Consumables ... 415
Replacing the Toner Cartridges ... 416
Checking the Remaining Amount of Consumables ... 420
List of Consumables ... 421
Adjusting the Print Quality and Position ... 423
Calibrating the Gradation ... 424
Correcting Color Mismatch ... 425
Adjusting the Print Position ... 426

Troubleshooting 430

Paper Jams 431

Paper Jams in the Output Tray and Rear Side 433

Paper Jams in a Paper Source 435

Paper Jams That Occur Repeatedly 438

Problems with Printing Results 440

Toner Smudges and Splatters Appear 442

Streaks Appear 443

Printing Is Uneven 445

Printed Paper Is Blank 447

Smudge Marks Appear on the Edge of Printouts 448

Text or Images Are Blurry 449

Printouts Have Ghost Images 450

Printouts Are Faded 451

The Edge of the Page Is Not Printed 453

Colors or Stains Appear on the Background of Printouts 454

White Spots Appear 455

Smudge Marks Appear on the Back Side of Printouts 457

Printouts Are Skewed 458

Paper and Paper Feeding Problems 459

Paper Creases 460

Paper Curls 461

Paper Is Not Fed or Two or More Sheets Are Fed Together 462

Paper Drawer Does Not Fit in the Machine 463

Setting Up 464

The Machine Connected via WSD Port Is Not Displayed During Driver Installation 465

Cannot Connect to Wireless LAN 466

Network 467

Cannot Switch to Wireless LAN 468

Cannot Find the Print Server to Connect to 469

Cannot Connect to a Shared Printer 470

Cannot Find the IP Address of the Machine 471

AirPrint Does Not Work 472

Printing 473

Cannot Print 474

Cannot Print (Wireless LAN) 475

Cannot Print (Wired LAN) 477

Cannot Print (USB Connection) 478

Cannot Print (via Print Server) 479

Printing Is Slow 480

Management Functions and Environment Settings 481

Cannot Access Remote UI 482

Changing the Volume of the Confirmation Sound and Warning Tone 483

Changing the Time Until Sleep Mode 484
Lost Department ID or PIN for the Administrator 485
Checking the Items That Can Be Configured on the Machine and Their Settings 486
A Message Appears 487
An Error Code Is Displayed 502
If the Problem Persists 507

Appendix 509
Manuals of the Machine 510
Using the User's Guide 511
Manual Display Settings 514
Operation Examples When Using a Computer 515
Environmental Information, Regulations, and Standards 525
Notice 527
Trademarks and Copyrights 528
Third-party Software 530

About the Machine

About the Machine 2
Supported Functions and Options 3
Paper Feeder PF-K 5
System Options 6
Registering License 7
System Manager ID and PIN 9
Measures to Prevent Unauthorized Access 10
Names of Parts and Their Functions 12
Front Side 13
Rear Side 15
Interior 16
Operation Panel 17
Multi-purpose Tray 19
Paper Drawer 20
Usable Paper 21
Precautions When Handling Paper 25
Specifications 26
Basic Specifications 27
Print Specifications 29
Network Specifications 32
Security and Management Function Specifications 33
Supported Environment 37
Recommended Functions 38
Cost Savings 39
Making Operations More Efficient 40

About the Machine

864Y-000

Before using the machine, check the basic information of the machine such as the supported functions and options, names of each part, and specifications of the functions. Also consider the management system of the machine and measures against security risks.

Basic Information

The supported functions and options vary depending on the model. Check the list for details.
You can also check the specifications of the options.
Supported Functions and Options(P. 3)

Check the names of parts, usable paper, and specifications of functions, as needed.
Names of Parts and Their Functions(P. 12)
Usable Paper(P. 21)
Specifications(P. 26)

Information Required for Management Functions

When using the management functions, use the System Manager ID and PIN to log in.
The preset System Manager ID and PIN vary depending on the model.
System Manager ID and PIN(P. 9)

When using the machine in a network environment, check the examples of measures to prevent unauthorized access, and consider implementing these.
Measures to Prevent Unauthorized Access(P. 10)

Useful Tips

Introduces recommended functions useful for digitizing documents, reducing costs, and making operations more efficient.
Recommended Functions(P. 38)

Supported Functions and Options

864Y-001

User's Guide (this manual) describes all functions of the model series including the machine.
Some of the functions listed in User's Guide may not be available depending on your model. Use the table below to see which functions and options are supported by your model.

Supported Functions(P. 3)
Supported Options(P. 4)

Supported Functions

✔ : Supported — : Not supported

Function	C1333P
Print	✔
2-sided Printing	✔
Wired LAN connection	✔
Wireless LAN connection	✔
USB connection	✔
Remote UI	✔
Keys and certificates	✔
Linking with mobile devices	✔
Display	Touch panel
Default System Manager ID	7654321
Default System Manager PIN	7654321
Department ID Management	✔
Application Library	✔
uniFLOW Online Express	✔

NOTE

- For details about the types of available drivers, see the Canon website for your country or region, or see the supplied User Software CD-ROM/DVD-ROM.
  https://global.canon/en/support/

Supported Options

You can use various options to suit your purpose.

- Adding a paper drawer **Paper Feeder PF-K(P. 5)**
- Creating barcodes **Barcode Printing Kit(P. 6)**

✔: Supported —: Not supported

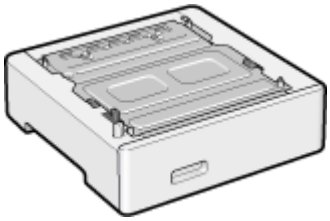
Option	C1333P
Paper Feeder PF-K	✔
Barcode Printing Kit	✔

*1 This optional item may not be available, depending on your country or region.

Paper Feeder PF-K

864Y-002

When frequently using paper of varying sizes or types or when loading large quantities of paper at a time, install the optional Paper Feeder PF-K. This option reduces the work of loading paper.
For how to install Paper Feeder PF-K, see "Setup Guide." **Manuals of the Machine(P. 510)**



■ Specifications

Paper size	Maximum: 216.0 mm x 356.0 mm Minimum: 100.0 mm x 148.0 mm
Paper basis weight	60 g/m² to 200 g/m²
Number of paper sources and paper capacity *1	Paper drawer x 1 550 sheets (80 g/m²), 640 sheets (64 g/m²)
Dimensions (W x D x H)	420 mm x 427 mm x 156 mm
Weight	Approx. 4.7 kg

*1 Varies depending on the installation environment and paper to be used.

System Options

864Y-003

By installing the system options, you can boost performance of the machine.

Barcode Printing Kit

You can use Barcode Printing Kit to create barcodes in various formats.
For details about using the Barcode Printing Kit, see the Barcode Printing Guide at the online manual site.
https://oip.manual.canon/
* To use Barcode Printing Kit, you must obtain a license key and register it to the machine. **Registering License(P. 7)**
* To print barcodes, you must enable use of PCL. **[Personality](P. 352)**

Registering License

864Y-004

Depending on the system option, you may have to obtain a license key and register it to the machine to start the system option.

Step 1: Obtaining a License Key(P. 7)
Step 2: Registering the License Key(P. 7)

Step 1: Obtaining a License Key

From a Web browser on a computer, access the following URL and follow the procedure on the screen to obtain a license key.
http://www.canon.com/lms/license/

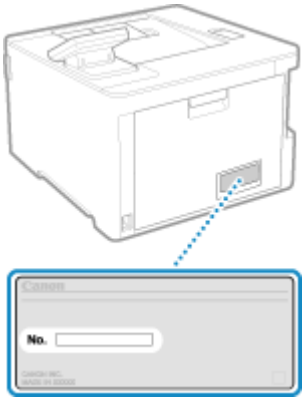
To obtain the license key, you must have the License Access Number and serial number of the machine. Prepare that information in advance.

Checking the License Access Number
Check the number in the License Access Number Certificate that is supplied with the package of the option.

How to Look Up the Serial Number

[Home] screen on the operation panel ▶ [Status Monitor] ▶ [Device Information] ▶ [Serial Number]

- You can also check this information using Remote UI from a computer. **Managing the Machine from a Computer (Remote UI)(P. 276)**
- You can also check this information on the label on the back of the machine.



Step 2: Registering the License Key

Use the operation panel to register the license key. You cannot register the license key using Remote UI from a computer.
Administrator privileges are required.

1 On the operation panel, press [Menu] in the [Home] screen. [Home] Screen(P. 97)

2 Press [Management Settings] ▶ [License/Other] ▶ [Register License].

If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

3 **Confirm the message, and press [OK].**

4 **Enter the license key, and press [Apply].**

➡ Registration starts. When registration is completed, the message [Installation is complete. Changes will be effective after the main power is turned OFF and ON.] is displayed.

5 **Press [Close].**

6 **Restart the machine.** **Restarting the Machine(P. 90)**

➡ The license is registered.

System Manager ID and PIN

864Y-005

The machine has a System Manager Mode for viewing and changing important settings.
When System Manager ID and System Manager PIN are set, only those users who know this information are able to log into System Manager Mode.

The System Manager ID and System Manager PIN are set in advance as follows.

System Manager ID	7654321
System Manager PIN	7654321

- When the System Manager Mode login screen appears, enter the above ID and PIN to log in if the default settings have not been changed. To log in to Remote UI in System Manager Mode, you must change the System Manager PIN from the default setting.
- Change the default settings to protect the information, and allow only certain administrators to know this information.

For details about how to change and set the System Manager ID and System Manager PIN, see the following:
Setting the Department ID and PIN for the Administrator(P. 211)

Measures to Prevent Unauthorized Access

864Y-006

Be sure to read this section before using the machine in a network environment.

Printers and multifunction machines can provide various useful functions when connected to a network. However, because this also creates risks of unauthorized access and eavesdropping over the network, measures against security risks are essential.
This section provides examples of measures against unauthorized access that you can implement during setup when using the machine in a network environment.

Using a Private IP Address(P. 10)
Using a PIN to Protect Information(P. 10)
Precautions When Using Remote UI(P. 11)

NOTE

- There are additional measures against security risks you can implement on the machine, such as restricting communication with a firewall and using TLS encrypted communication to prevent eavesdropping and tampering. Take the necessary measures according to your usage environment. **Security(P. 210)**

Using a Private IP Address

There are two types of IP addresses: a global IP address, which is used for connecting to the Internet, and a private IP address, which is used in a local area network such as a company LAN.

If a global IP address is assigned to the machine, the machine can be accessed by users on the Internet. Thus, the risk of information leakage due to unauthorized access from external network increases.
On the other hand, if a private IP address is assigned to the machine, access to the machine is restricted to only users on your local area network. Therefore, it reduces the risk of unauthorized access compared to an assigned global IP address.

Basically, assign a private IP address to the machine.
A private IP address is used in one of the following ranges.

Ranges for Private IP Addresses

- From 10.0.0.0 to 10.255.255.255
- From 172.16.0.0 to 172.31.255.255
- From 192.168.0.0 to 192.168.255.255

For details about how to assign and confirm the IP address, see the following:
Setting IPv4 Addresses(P. 61)
Setting IPv6 Addresses(P. 63)

If you want to assign a global IP address to the machine, you can create an environment to prevent outside access, such as by using a firewall, to reduce the risk of unauthorized access. Contact your network administrator about how to implement network security.

Using a PIN to Protect Information

By setting up a PIN to protect the information stored in the machine, you can reduce the risk of information leakage or unauthorized use if a malicious third party attempts to gain unauthorized access.
You can set a PIN to the functions indicated below. Only users who know the PIN can use these functions and access the information on the machine.

Remote UI

You can require the user to enter the Remote UI Access PIN when using Remote UI.
Setting the PIN to Use for Remote UI(P. 261)

System Manager ID
You can require the user to enter the System Manager ID and System Manager PIN, when changing any important settings.
Setting the Department ID and PIN for the Administrator(P. 211)

Precautions When Using Remote UI

- Do not access other websites when using Remote UI.
- After using Remote UI, be sure to log out and close your browser.

Names of Parts and Their Functions

864Y-007

Front Side

Check these parts on the front when operating the machine.

Front Side(P. 13)

- Use the operation panel to operate the machine and configure the settings.

  Operation Panel(P. 17)

- Load printing paper into the following paper sources:

  Multi-purpose Tray(P. 19)

  Paper Drawer(P. 20)

Rear Side

Check the rear parts when installing and connecting the machine and when clearing paper jams.

Rear Side(P. 15)

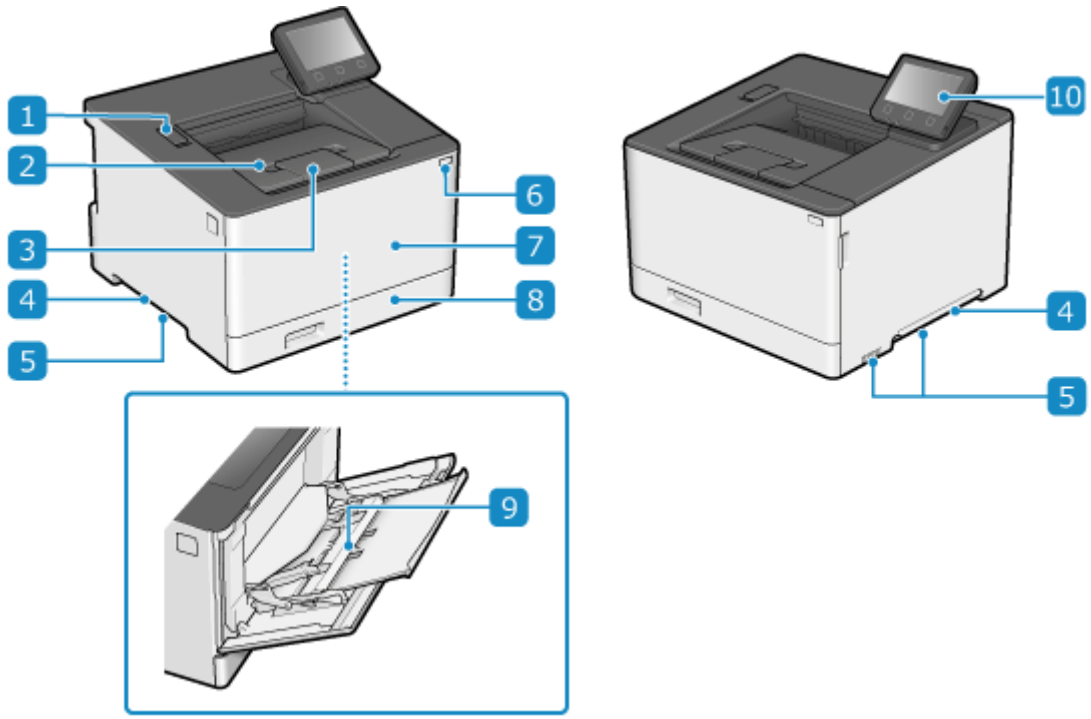
Interior

Pull out the toner cartridge tray when replacing toner cartridges.

Interior(P. 16)

Front Side

864Y-008



1 USB port (for USB devices)

You can connect a commercial USB memory device or USB keyboard.

2 Output tray

Printed paper is ejected to the output tray.

3 Paper stopper

Open the paper stopper to prevent paper from falling out of the output tray.

4 Lift handles

Hold the lift handles when moving the machine.

* When relocating the machine, do not attempt to move it yourself. Instead, contact your local authorized Canon dealer.

5 Ventilation slots

Air inside the machine is released through the ventilation slots to cool down the inside of the machine. Do not place objects next to the ventilation slots, as this can prevent ventilation.

6 Power switch

Turns the power of the machine ON and OFF. **Turning ON and OFF the Machine(P. 85)**

7 Front cover

Open the front cover when replacing toner cartridges.

8 Paper drawer

Load paper you usually use into the paper drawer. **Paper Drawer(P. 20)**

9 Multi-purpose tray

To temporarily use paper not loaded in the paper drawer, load it in the multi-purpose tray. **Multi-purpose Tray(P. 19)**

10 Operation panel

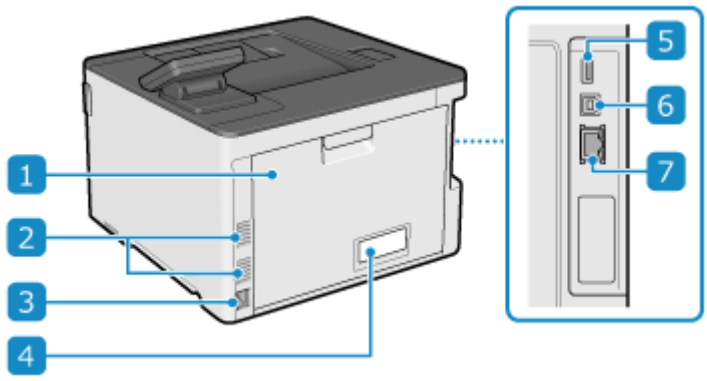
Use the display and keys to operate the machine and confirm the operations and status. **Operation Panel(P. 17)**

NOTE

- To ensure efficient use of the machine, regularly clean the surface. **Cleaning the Surface of the Machine(P. 412)**

Rear Side

864Y-009



1 Rear cover

Open the rear cover when a paper jam occurs inside the machine.

2 Ventilation slots

Air inside the machine is released through the ventilation slots to cool down the inside of the machine.
Do not place objects next to the ventilation slots, as this can prevent ventilation.

3 Power socket

Connect the power cord to the power socket.

4 Rating label

This label shows the serial number, which is needed when making inquiries about the machine.

5 USB port (for USB devices)

You can connect a commercial USB keyboard to the USB port.

6 USB port (for computer connection)

You can connect a computer to the USB port using a commercial USB cable.

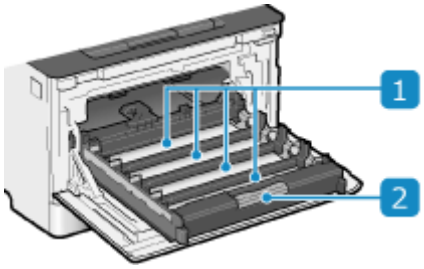
7 LAN port

You can connect the machine to a wired LAN using a commercial Ethernet cable connected to the LAN port.

Interior

864Y-00A

Install the toner cartridges into the machine. **Replacing the Toner Cartridges(P. 416)**



1 Slots

Install the Y (yellow), M (magenta), C (cyan), and K (black) toner cartridges in the slots from the rear to the front, respectively. The slots have labels indicating the color of the toner cartridge to be installed.

2 Toner cartridge tray

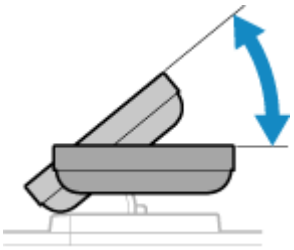
Pull out the toner cartridge tray when replacing toner cartridges.

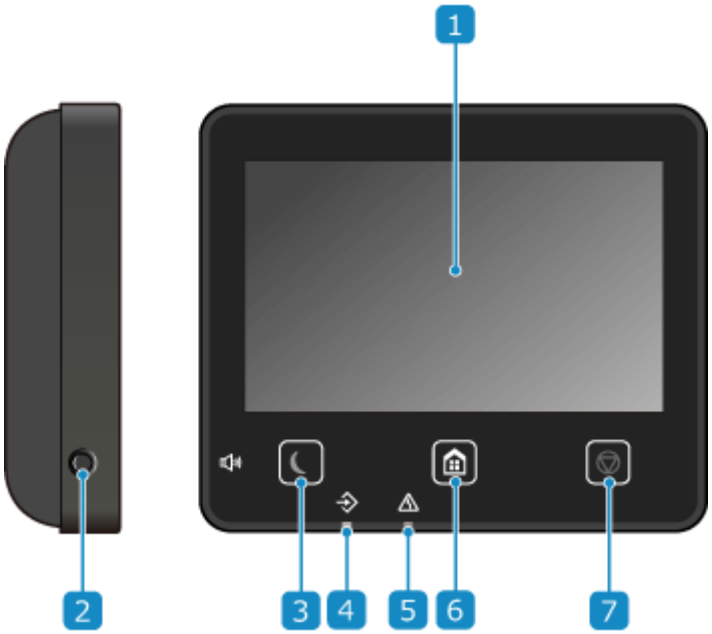
Operation Panel

864Y-00C

Use the operation panel to operate the machine and configure the settings.

If the display is difficult to see, adjust the angle of the operation panel, as shown on the right.





1 Display

Displays the screens for operating the functions, usage, messages, and other information. This touch panel can be operated by directly touching the screen with your finger. **Using the Operation Panel(P. 94)**

2 Sound Volume key ( )

Adjusts the volume. **Adjusting the Volume(P. 140)**

3 Energy Saver key ( )

Puts the machine into sleep mode to reduce power consumption. In sleep mode, lights up yellow-green.
Reducing Power Consumption (Sleep Mode)(P. 92)

4 Data indicator

Blinks when an operation is being performed, such as during printing, and lights up when data is waiting to be processed.

5 Error indicator

Blinks or lights up when a paper jam or other error occurs.

6 Home key ( )

Displays the [Home] screen. **[Home] Screen(P. 97)**

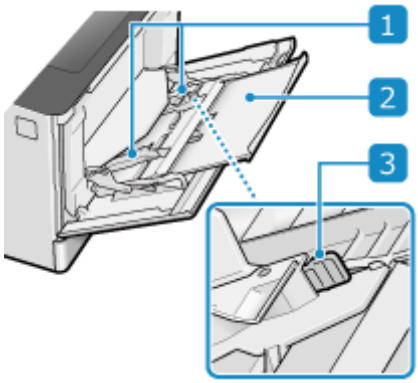
7 Stop key ( )

Cancels an operation being executed.

Multi-purpose Tray

864Y-00E

Load paper that you will temporarily use in the multi-purpose tray. **Loading Paper in the Multi-purpose Tray(P. 117)**



1 Paper guides

Align the paper guides against the edges of the paper to properly place the paper.

2 Paper tray

Pull out the paper tray when loading paper.

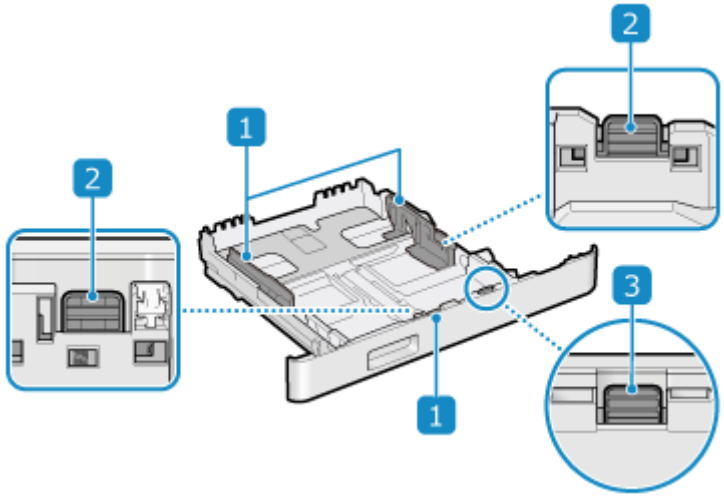
3 Lock release lever

Move the paper guides while pressing the lock release lever.

Paper Drawer

864Y-00F

Load paper that you usually use into the paper drawer. **Loading Paper in the Paper Drawer(P. 112)**



1 Paper guides

Align the paper guides against the edges of the paper to properly place the paper.

2 Lock release lever

Move the paper guides while pressing the lock release lever.

3 Lock release lever (for extending the paper drawer)

When loading paper longer than A4, extend the paper drawer toward you while pressing the lock release lever.

* When the paper drawer is extended from the machine, it is not fully housed.

Usable Paper

864Y-00H

The sizes and types of paper that can be used on the machine are shown below.

Usable Paper Sizes(P. 21)
Usable Paper Types(P. 22)
Unusable Paper(P. 24)

NOTE

- Precautions must be taken when handling and storing paper. **Precautions When Handling Paper(P. 25)**

Usable Paper Sizes

✓: Usable ×: Not usable

Paper Size	Paper Drawer 1	Paper Drawer 2 *1	Multi-purpose Tray	Automatic 2-sided Printing *2
A4 *3*4	✓	✓	✓	✓
B5	✓	✓	✓	✓
A5 *5	✓	✓	✓	✓
A6	✓	✓	✓	×
Legal (LGL) *3	✓	✓	✓	✓
Letter (LTR) *3*4	✓	✓	✓	✓
Statement (STMT)	✓	✓	✓	×
Executive (EXEC)	✓	✓	✓	✓
Oficio *3	✓	✓	✓	✓
Oficio (Brazil) *3	✓	✓	✓	✓
Oficio (Mexico) *3	✓	✓	✓	✓
Letter (Government) *3	✓	✓	✓	✓
Legal (Government) *3	✓	✓	✓	✓

Paper Size	Paper Drawer 1	Paper Drawer 2 *1	Multi-purpose Tray	Automatic 2-sided Printing *2
Foolscap/Folio *3	✓	✓	✓	✓
Foolscap (Australia) *3	✓	✓	✓	✓
Legal (India) *3	✓	✓	✓	✓
3x5inch	×	×	✓	×
Envelope No.10 (COM10)	✓	×	✓	×
Envelope Monarch	✓	×	✓	×
Envelope C5	✓	×	✓	×
Envelope DL	✓	×	✓	×
Custom Paper Size	✓ *6	✓ *7	✓ *8	✓ *9

*1 The optional Paper Feeder PF-K

*2 Automatically prints on both sides without having to reload the paper.

*3 Enables printing of received I-Faxes.

*4 Enables printing of reports and lists.

*5 Enables loading of paper in the portrait or landscape orientation.

*6 You can use a custom size from 98.0 mm x 148.0 mm to 216.0 mm x 356.0 mm.

*7 You can use a custom size from 100.0 mm x 148.0 mm to 216.0 mm x 356.0 mm.

*8 You can use a custom size from 76.0 mm x 127.0 mm to 216.0 mm x 356.0 mm.

*9 You can use a custom size from 148.0 mm x 148.0 mm to 216.0 mm x 356.0 mm.

Usable Paper Types

You can use non-chlorine paper.

✓: Usable ×: Not usable

Paper Type	Paper Weight	Paper Drawer 1	Paper Drawer 2 *1	Multi-purpose Tray	Automatic 2-sided Printing *2
Thin 1 *3	60 g/m²	✓	✓	✓	✓
Plain 1 *3*4	61 g/m² to 74 g/m²	✓	✓	✓	✓
Plain 2 *3*4	75 g/m² to 82 g/m²	✓	✓	✓	✓

Paper Type	Paper Weight	Paper Drawer 1	Paper Drawer 2 *1	Multi-purpose Tray	Automatic 2-sided Printing *2
Plain 3 *3*4	83 g/m² to 90 g/m²	✓	✓	✓	✓
Plain 4	91 g/m² to 119 g/m²	✓	✓	✓	✓
Heavy 1	120 g/m² to 128 g/m²	✓	✓	✓	✓
Heavy 2	129 g/m² to 163 g/m²	✓	✓	✓	✓
Heavy 3	164 g/m² to 176 g/m²	×	×	✓	×
Recycled 1 *3*4	61 g/m² to 74 g/m²	✓	✓	✓	✓
Recycled 2 *3*4	75 g/m² to 82 g/m²	✓	✓	✓	✓
Recycled 3 *3	83 g/m² to 90 g/m²	✓	✓	✓	✓
Recycled 4	91 g/m² to 119 g/m²	✓	✓	✓	✓
Pre-punched 1	61 g/m² to 74 g/m²	✓	✓	✓	✓
Pre-punched 2	75 g/m² to 82 g/m²	✓	✓	✓	✓
Labels	—	✓	×	✓	×
Color *3*4	61 g/m² to 74 g/m²	✓	✓	✓	✓
Letterhead 1	61 g/m² to 74 g/m²	✓	✓	✓	✓
Letterhead 2	75 g/m² to 82 g/m²	✓	✓	✓	✓
Letterhead 3	83 g/m² to 90 g/m²	✓	✓	✓	✓
Letterhead 4	91 g/m² to 119 g/m²	✓	✓	✓	✓
Letterhead 5	120 g/m² to 128 g/m²	✓	✓	✓	✓
Letterhead 6	129 g/m² to 163 g/m²	✓	✓	✓	✓
Letterhead 7	164 g/m² to 176 g/m²	×	×	✓	×
Coated 1	118 g/m² to 120 g/m²	✓	✓	✓	✓
Coated 2	121 g/m² to 150 g/m²	✓	✓	✓	✓

Paper Type	Paper Weight	Paper Drawer 1	Paper Drawer 2 *1	Multi-purpose Tray	Automatic 2-sided Printing *2
Coated 3	151 g/m² to 200 g/m²	✓	✓	✓	✓
Envelope *5	—	✓	×	✓	×

*1 The optional Paper Feeder PF-K

*2 Automatically prints on both sides without having to reload the paper.

*3 Enables printing of received I-Faxes.

*4 Enables printing of reports and lists.

*5 When you specify a custom size, [Envelope 1] and [Envelope 2] are displayed for the paper type. If you cannot print properly with [Envelope 1], such as due to the toner coming off, try using [Envelope 2].

Unusable Paper

Before printing, check whether the paper to use is suitable. Do not use the following types of paper, as they can cause paper jams or printing errors:

- Wrinkled, creased, curled, torn, or damp paper*1
- Thin straw paper, very thin paper, coarse paper, glossy paper
- Paper with glue or other adhesive sticking out or label paper whose back side can be easily peeled off
- Paper printed by a thermal transfer printer, back side of paper printed by a thermal transfer printer

*1 Printing on damp paper may cause steam to be emitted from the output area or water droplets to adhere to the output part, but this does not indicate a malfunction. This is because the water contained in the paper evaporates due to the heat generated when the toner fixes to the paper. This is more likely to occur when the room temperature is low.

Precautions When Handling Paper

864Y-00J

To prevent paper jams and other errors and ensure beautiful printing, you must take precautions when handling and storing paper.
To maintain the quality of printed paper, pay attention when storing and gluing paper.

■ Handling and Storing Paper

Acclimating the Paper to the Usage Environment

Before using the paper in the machine, be sure to fully acclimate the paper to the environment where the machine is located. Immediately using paper stored in a location with a different temperature or humidity can cause paper jams or printing errors.

Storing Paper Before Use

- It is recommended that you use paper as soon as possible after opening the package. Any remaining paper should be wrapped in the original package and stored on a flat surface.
- To protect the paper from moisture or dryness, keep the paper wrapped in its package until use.
- Do not store the paper so that it curls or folds.
- Do not store the paper vertically, and do not stack too much paper.
- Do not store the paper in direct sunlight, or in a place with high humidity, dryness, or a drastically different temperature or humidity compared to the usage environment.

■ Storing and Gluing Printed Paper

Storing Paper

- Store the paper on a flat surface.
- Do not store the paper together with items made of polyvinyl chloride (PVC) such as a clear folder. The toner may melt, causing the paper to stick to the PVC material.
- Do not store the paper folded or creased. Toner may peel off.
- Do not store the paper in a place with high temperature.
- When storing the paper for a long period of time (two years or longer), store in a binder or similar item.
- Storing the paper for a long period of time can cause a discoloration of the paper, resulting in a discoloration of printed images.

Precautions When Gluing Printed Paper

- Always use insoluble adhesives.
- Before applying adhesive, perform a test using an unneeded printout.
- Allow glued paper to fully dry before stacking.

Specifications

864Y-00K

Specifications are subject to change for product improvement, and the contents may be updated depending on products released in the future. For details about product information, see the Canon website.
https://global.canon/

Specifications of Main Unit
Basic Specifications(P. 27)

Specifications of Functions
Print Specifications(P. 29)
Network Specifications(P. 32)
Security and Management Function Specifications(P. 33)

Operating Environment and Supported Software and Servers
Supported Environment(P. 37)

■ See Also

Specifications of Options
You can check the compatibility of options and their specifications.
Supported Options(P. 4)

Basic Specifications

864Y-00L

Type	Desktop
Color Supported	Full Color
Print Resolution	600 dpi × 600 dpi
Number of Tones	256
Paper Size	Maximum: 216.0 mm x 356.0 mm Minimum (paper drawer): 98.0 mm x 148.0 mm Minimum (multi-purpose tray): 76.0 mm x 127.0 mm
Paper Type and Weight	**Usable Paper(P. 21)**
Warm-up time *1	**After powering ON** 16.6 seconds or less **After recovering from sleep mode** 1.7 seconds or less
First Print Time (A4)	Full Color: Approx. 7.1 seconds Black and White: Approx. 7.1 seconds
Continuous Print Speed *2 (A4)	Full Color: 33 sheets/minute Black and White: 33 sheets/minute
Paper Feeding System and Paper Capacity *3	**Paper Drawer x 1** 250 sheets (64 g/m², 80 g/m²) **Multi-purpose Tray** 50 sheets (64 g/m², 80 g/m²)
Output System and Output Capacity *3	**Output Tray** 150 sheets (75 g/m²)
Power supply	AC 220 V - 240 V, 3.5 A, 50 Hz/60 Hz
Power Consumption *1	**Maximum Power Consumption** 1,380 W or less **During Sleep Mode** Approx. average of 1.0 W (USB, wired LAN, or wireless LAN connection) **With Power Turned OFF**

	0.3 W or less
Dimensions (W x D x H)	425 mm x 427 mm x 380 mm
Weight (Not including toner cartridges)	Approx. 16.1 kg
Maximum Occupancy Space	501 mm x 917 mm x 536 mm * Provide a space of at least 100 mm around the machine.
Memory Capacity	RAM: 1 GB
Usage Environment	Temperature: 10 °C to 30 °C Humidity: 20% to 80% RH (no condensation)

*1 May vary depending the usage environment and usage conditions.

*2 Print speed is measured based on internal testing using A4 size paper printed with 100% print ratio to original on one-sided paper. Internal testing involved continuously printing the same one page of content on plain paper. Print speed may vary depending on paper type, paper size or paper feeding direction.
The device may automatically pause or slow down in order to adjust printer condition such as controlling temperature of a certain unit or limiting impact to image quality during continuous printing.

*3 May vary depending on the installation environment and paper to be used.

Print Specifications

864Y-00R

UFR II Printer Function(P. 29)
PS Printer Function(P. 29)
PCL Printer Function(P. 30)
Memory Media Print Function(P. 31)

UFR II Printer Function

Type	Internal
Print Size	**Usable Paper(P. 21)**
Continuous Print Speed	Same as "Continuous Print Speed" for main unit **Basic Specifications(P. 27)**
Resolution	**Data Processing** 1,200 dpi × 1,200 dpi, 600 dpi × 600 dpi
Page Description Language (PDL)	UFR II
Protocol Supported	TCP/IP: LPD, Port9100, IPP, IPPS, WSD
Resident Fonts	None
Interface	**USB** USB 2.0 Hi-Speed **Wired LAN** 10Base-T, 100Base-TX, 1000Base-T (IEEE 802.3 compliant) **Wireless LAN** IEEE 802.11b, IEEE 802.11g, IEEE 802.11n

PS Printer Function

Model Type	Internal
Print Size	**Usable Paper(P. 21)**
Continuous Print Speed	Same as "Continuous Print Speed" for main unit **Basic Specifications(P. 27)**
Resolution	**Data Processing**

	1,200 dpi x 1,200 dpi, 600 dpi x 600 dpi
Page Description Language (PDL)	Adobe®PostScript®3™
Protocol Supported	TCP/IP: LPD, Port9100, IPP, IPPS, WSD
Resident Fonts	136 Roman
Interface	**USB** USB 2.0 Hi-Speed **Wired LAN** 10Base-T, 100Base-TX, 1000Base-T (IEEE 802.3 compliant) **Wireless LAN** IEEE 802.11b, IEEE 802.11g, IEEE 802.11n

PCL Printer Function

Type	Internal
Print Size	**Usable Paper(P. 21)**
Continuous Print Speed	Same as "Continuous Print Speed" for main unit **Basic Specifications(P. 27)**
Resolution	**Data Processing** 1,200 dpi x 1,200 dpi, 600 dpi x 600 dpi
Page Description Language (PDL)	PCL6, PCL5
Protocol Supported	TCP/IP: LPD, Port9100, IPP, IPPS, WSD
Resident Fonts	93 Roman, 10 Bitmap fonts, 2 OCR fonts, Barcode fonts*1
Interface	**USB** USB 2.0 Hi-Speed **Wired LAN** 10Base-T, 100Base-TX, 1000Base-T (IEEE 802.3 compliant) **Wireless LAN** IEEE 802.11b, IEEE 802.11g, IEEE 802.11n

*1 Requires optional Barcode Printing Kit.

Memory Media Print Function

Printable Formats	PDF, TIFF/JPEG

Network Specifications

864Y-00S

■ Common

Protocol Supported	TCP/IP Frame type: Ethernet II Print applications: LPD, Raw, IPP, IPPS, WSD, Mopria, AirPrint, Windows10 Mobile Print, Windows11 Mobile Print

■ Wired LAN

Interface	10BASE-T, 100BASE-TX, 1000BASE-T shared (RJ-45)

■ Wireless LAN

Standard	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n
Transmission Method	IEEE 802.11b (Modulation system: DS-SS) IEEE 802.11g (Modulation system: OFDM method) IEEE 802.11n (Modulation system: OFDM method)
Communication Mode	Infrastructure Mode Access Point Mode
Security (Encryption Method)	**Infrastructure Mode** 128 (104) / 64 (40) bit WEP WPA-PSK (TKIP / AES-CCMP) WPA2-PSK (TKIP / AES-CCMP) WPA-EAP (AES-CCMP) WPA2-EAP (AES-CCMP) **Access Point Mode** WPA2-PSK (AES-CCMP)
Setup Method	WPS (Wi-Fi Protected Setup), Manual setup

Security and Management Function Specifications

864Y-00U

Firewall(P. 33)
IPSec(P. 33)
Keys and Certificates(P. 34)
Definition of "Weak Encryption"(P. 35)
TLS(P. 36)

Firewall

- Up to 16 IP addresses (or ranges of IP addresses) can be specified for both IPv4 and IPv6.
- Up to 32 MAC addresses can be specified.

IPSec

IPSec of the machine conforms to RFC2401, RFC2402, RFC2406, and RFC4305.

Operating system of connected device	Windows 8.1 Windows 10
Connection mode	Transport mode
Key exchange protocol	IKEv1 (main mode)
	Authentication method Pre-shared key Digital signature
	Hash algorithm (and key length) HMAC-SHA1-96 HMAC-SHA2 (256 bits or 384 bits)
	Encryption algorithm (and key length) 3DES-CBC AES-CBC (128 bits, 192 bits, 256 bits)
	Key exchange algorithm/group (and key length) Diffie-Hellman (DH) Group 14 (2048 bits) ECDH-P256 (256 bits) ECDH-P384 (384 bits)
ESP	**Hash algorithm**

	HMAC-SHA1-96
	Encryption algorithm (and key length) 3DES-CBC AES-CBC (128 bits, 192 bits, 256 bits)
	Hash/encryption algorithm (and key length) AES-GCM (128 bits, 192 bits, 256 bits)
AH	**Hash algorithm** HMAC-SHA1-96

NOTE

- IPSec supports communication to a unicast address (single device).

Keys and Certificates

The following keys and certificates are supported:

■Self-generated Key and Self-signed Certificate or CSR

Public key algorithm (and key length)	RSA (512 bits, 1024 bits, 2048 bits, 4096 bits) DSA (1024Bits, 2048Bits, 3072Bits) ECDSA (P256, P384, P521)
Certificate signature algorithm	RSA: SHA-1, SHA-256, SHA-384*1, SHA-512*1, MD2, MD5 DSA: SHA-1 ECDSA: SHA-1, SHA-256, SHA-384, SHA-512
Certificate thumbprint algorithm	SHA1

*1 SHA384-RSA and SHA512-RSA are available only when the RSA key length is 1024 bits or more.

■Key and Certificate or CA Certificate for Installation

Format	**Key** PKCS#12*1 **CA certificate** X.509 DER format/PEM format

File extension	**Key** ".p12" or ".pfx" **CA certificate** ".cer" or ".pem"
Public key algorithm (and key length)	RSA (512 bits, 1024 bits, 2048 bits, 4096 bits) DSA (1024 bits, 2048 bits, 3072 bits) ECDSA (P256, P384, P521)
Certificate signature algorithm	RSA: SHA-1, SHA-256, SHA-384*2, SHA-512*2, MD2, MD5 DSA: SHA-1 ECDSA: SHA-1, SHA-256, SHA-384, SHA-512
Certificate thumbprint algorithm	SHA1

*1 Requirements for the certificate contained in a key are pursuant to CA certificates.

*2 SHA384-RSA and SHA512-RSA are available only when the RSA key length is 1024 bits or more.

NOTE

- The machine does not support use of a certificate revocation list (CRL).

Definition of "Weak Encryption"

When [Prohibit Use of Weak Encrypt.] in [Encryption Settings] is set to [On], the use of the following algorithms is prohibited. **[Encryption Settings](P. 395)**

Hash	MD4, MD5, SHA-1
HMAC	HMAC-MD5
Common key encryption	RC2, RC4, DES
Public key encryption	RSA encryption (512 bits/1024 bits) RSA signature (512 bits/1024 bits) DSA (512 bits/1024 bits) DH (512 bits/1024 bits)

NOTE

- Even when [Prohibit Weak Encryp. Key/Cert.] in [Encryption Settings] is set to [On], the hash algorithm SHA-1, which is used for signing a root certificate, can be used.

TLS

The following combinations of the TLS version and algorithm are usable:

✓ : Usable — : Not usable

Algorithm	TLS Version			
	TLS 1.3	TLS 1.2	TLS 1.1	TLS 1.0
Encryption Algorithm				
AES-CBC (256bit)	—	✓	✓	✓
AES-CBC (128bit)	—	✓	✓	✓
AES-GCM (256bit)	✓	✓	—	—
AES-GCM (128bit)	✓	✓	—	—
3DES-CBC	—	✓	✓	✓
CHACHA20-POLY1305	✓	—	—	—
Key Exchange Algorithm				
RSA	—	✓	✓	✓
ECDHE	✓	✓	✓	✓
X25519	✓	—	—	—
Signature Algorithm				
RSA	✓	✓	✓	✓
ECDSA	✓	✓	✓	✓
HMAC Algorithm				
SHA1	—	✓	✓	✓
SHA256	✓	✓	—	—
SHA384	✓	✓	—	—

Supported Environment

864Y-00W

Operating Environment(P. 37)
Supported Software and Servers(P. 37)

Operating Environment

AirPrint Operating Environment	**Using AirPrint Application to Print Data(P. 203)**
Remote UI Operating Environment *1	**Windows** Internet Explorer 11 Microsoft Edge Google Chrome **macOS** Safari 11 Google Chrome **Android** Google Chrome UC Browser **iOS** Safari 11 UC Browser

*1 You must set your Web browser to enable cookies and use JavaScript.

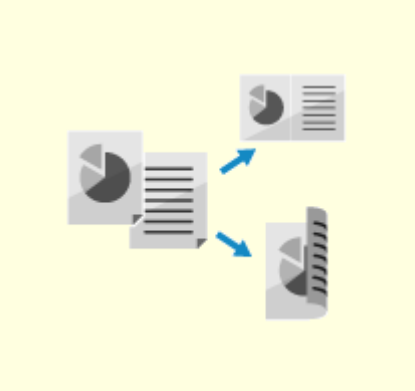
Supported Software and Servers

I-Fax Receiving Server Software	Microsoft Exchange Server 2013 Microsoft Exchange Server 2016 Microsoft Exchange Server 2019 Lotus Domino R7.0 Qpopper 4.1.0

Recommended Functions

864Y-00X

This section introduces recommended functions that can be useful for your purpose and help you solve problems, such as to save paper and power, and improve operations.



Cost Savings(P. 39)



Making Operations More Efficient(P. 40)

Cost Savings

864Y-00Y

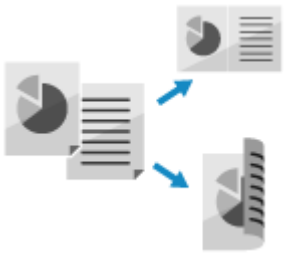
This machine can help you save costs on paper and power.

Saving Paper

Saving Paper When Printing

You can print on both sides of the paper, and print multiple pages on one sheet of paper.

Printing from a Computer(P. 163)
Preparing to Print from a USB Memory Device(P. 160)
Changing the Print Settings of the Received I-Fax(P. 184)



Restricting and Managing the Number of Sheets of Paper

You can allocate a Department ID to each user or group to manage the number of pages printed per Department ID.

Authenticating Users and Managing Groups with Department ID (Department ID Management)(P. 214)

Saving Energy

You can configure the machine to enter sleep mode when not in use to save energy. The power of the machine does not turn OFF, so it can quickly resume operations.

Reducing Power Consumption (Sleep Mode)(P. 92)

Making Operations More Efficient

864Y-010

You can print data even in an environment where a computer cannot be used. In addition, you can customize the operation panel to make operations more efficient and reduce the amount of time using the machine.

Printing Data Without Using a Computer

Printing Data from a Smartphone or Tablet



You can print data from a mobile device connected to the machine while using an application. The machine supports direct connection for easy connection setup without having to use a wireless LAN router.
Linking with Mobile Devices(P. 189)

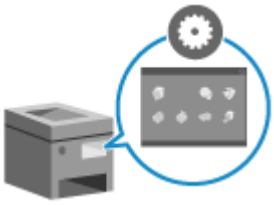
Using a USB Memory Device



You can insert a USB memory device into the machine to display the data in the USB memory device on the operation panel and print it on the machine.
Preparing to Print from a USB Memory Device(P. 160)

Easy Touch Panel Operations

Customizing the Operation Panel for Greater Usability



You can rearrange the buttons on the [Home] screen for greater usability.
Customizing the [Home] Screen(P. 106)

You can change the default settings that are treated as standard when you use a function.
Changing the Default Settings(P. 137)
Changing the Default Settings(P. 138)

One-touch Operation of Useful Functions



Use the Application Library to quickly execute an operation (such as "Print regular document" or "View consumables information") with a single touch of a button.
To use this function, you must click [Application Library] on the Portal Page of Remote UI, and configure the application. **Portal Page of Remote UI(P. 280)**
For more information, see the manual of the Application Library at the online manual site.
https://oip.manual.canon/

Setting Up

Setting Up 42
Configuring the Default Settings (Setup Guide) 43
Setting Up the Network 46
Selecting Wired or Wireless LAN 48
Connecting to a Wired LAN 49
Connecting to a Wireless LAN 50
Connecting to a Wireless LAN by Using the Router Button (Push Button Mode) 53
Connecting to a Wireless LAN by Entering a PIN Code (WPS PIN Code Mode) 54
Connecting to a Wireless LAN by Searching for a Router (Access Point Setup Method) 56
Connecting to a Wireless LAN by Setting the Details (Manual Setup Method) 58
Setting IPv4 Addresses 61
Setting IPv6 Addresses 63
Configuring Your Machine for Your Network Environment 65
Manually Configuring the Ethernet Settings 66
Configuring DNS 67
Configuring SMB 70
Configuring WINS 71
Configuring SNMP 72
Configuring SNTP 75
Configuring SLP Communication 77
Checking the Network Status and Settings 79
Installing Software and Drivers to the Computer 82

Setting Up

864Y-011

After installing the machine, configure the required settings to enable use of the functions by performing the following steps.
Steps 1 and 2 are the machine settings.
Step 3 is the setting for using the machine from a computer. Configure this setting for each computer using the machine.

Step 1	When you turn ON the machine for the first time, the screen (Setup Guide) for setting the items required for using the machine is displayed. Configure the settings by following the instructions on the screen. **Configuring the Default Settings (Setup Guide)(P. 43)**
Step 2	Configure the network settings not included in the Setup Guide. If you did not connect to the network using the Setup Guide, do that during this step. **Setting Up the Network(P. 46)**
Step 3	Install the software required to use the machine and printer driver on your computer. **Installing Software and Drivers to the Computer(P. 82)**

See Also

Implementing Measures to Prevent Unauthorized Access
It is important to provide measures against security risks when using the machine in a network environment. Check examples of measures that you can take with the machine.
Measures to Prevent Unauthorized Access(P. 10)

Checking Available Functions
The functions available on the machine vary depending on the model. Check the functions that are available on your model.
Supported Functions and Options(P. 3)

Configuring the Settings Required to Use the Functions of the Machine
Additional settings may be required depending on your model. For details about the settings required for each function, see the following:
Printing Preparations(P. 145)
Preparations for Linking with Mobile Devices(P. 191)

Importing Settings Data from Another Machine
You can share settings data with other machines to save time on configuring the settings. You can export data from another machine of the same model to a computer and import that data to the machine so as to share the settings.
Importing and Exporting the Settings(P. 289)

Configuring the Default Settings (Setup Guide)

864Y-012

When you turn ON the machine for the first time, the screen (Setup Guide) for setting the items required for using the machine is displayed. Configure the settings using the procedure below by following the instructions on the screen.

Step 1: Setting the Display Language and Country or Region(P. 43)
Step 2: Setting the Date and Time(P. 43)
Step 3: Setting Remote UI(P. 44)
Step 4: Connecting to a Wireless LAN(P. 44)
Step 5: Viewing an Overview of the Application Library and Setup Method(P. 45)

NOTE

- These settings can only be configured one time using the Setup Guide when starting the machine for the first time. To change the settings configured with the Setup Guide at a later time, set the items in Steps 1 to 4 individually. For the details of each setting, see the following.
  Setting the Date and Time(P. 275)
  Setting the Department ID and PIN for the Administrator(P. 211)
  Setting the PIN to Use for Remote UI(P. 261)
  Connecting to a Wireless LAN(P. 50)

Step 1: Setting the Display Language and Country or Region

Set the language displayed on the operation panel screen and reports to be printed. Next, set the country or region where the machine is used.

1 On the [Language] screen, select the display language.

2 Press [Yes].

➡ The display language is set, and the [Select Country/Region] screen is displayed.
Depending on the country or region, the [Select Country/Region] screen is not displayed and the [Time Zone] screen is displayed. When the [Time Zone] screen is displayed, proceed to "Step 2: Setting the Date and Time." **Step 2: Setting the Date and Time(P. 43)**

3 On the [Select Country/Region] screen, select the country or region.

➡ The country or region is set, and the [Time Zone] screen is displayed.

Step 2: Setting the Date and Time

The date and time are used as the reference for the functions using date and time information, and therefore, they need to be set accurately.

1 On the [Time Zone] screen, select your time zone.

Set the time zone (UTC[*1]) and Daylight Saving Time according to the region where this machine is installed.

*1 The UTC (Coordinated Universal Time) is a coordinated universal time that is standard for all parts of the world. Internet-based communication relies on the UTC being set correctly.

2 On the [Current Date/Time Settings] screen, enter the date and time, and press [Apply].

➡ The time and date are set, and the Remote UI confirmation screen is displayed.

Step 3: Setting Remote UI

With Remote UI, you can use a Web browser on a computer to check the operation status of the machine, change the settings, and perform other operations.
Set the System Manager ID and Remote UI Access PIN to prevent unauthorized access to the machine.

1 On the Remote UI confirmation screen, press [Yes].

To use System Manager Mode to view and change important settings, set the System Manager ID. **System Manager ID and PIN(P. 9)**
To set the System Manager ID at a later time, press [No] and proceed to 2.

■When Setting the System Manager ID

On the [Configure System Manager Mode] screen, press [Yes], and set the System Manager ID and PIN by following the instructions on the screen.

- Set the System Manager ID and PIN by specifying any number. You cannot set an ID or PIN consisting of all zeros, such as "00" or "0000000."
- Specify any number other than "7654321" for the System Manager PIN. You cannot set a PIN consisting of all zeros, such as "00" or "0000000."

2 On the [Configure General User Mode] screen, press [Yes].

Restrict the use of Remote UI to only those users who know the Remote UI Access PIN.

3 Enter the Remote UI Access PIN, and press [Apply].

Specify any number. You cannot set a PIN consisting of all zeros, such as "00" or "0000000."

4 Enter the PIN again, and press [Apply].

➡ After the message [Settings configured.] appears, the screen for confirming the wireless LAN connection is displayed.

Step 4: Connecting to a Wireless LAN

Connect to the network using wireless local area network (LAN).

1 On the screen for confirming the wireless LAN connection, press [Yes].

- If the machine is not connected to a wireless LAN, press [No], and proceed to "Step 5: Viewing an Overview of the Application Library and Setup Method." **Step 5: Viewing an Overview of the Application Library and Setup Method(P. 45)**
- When connecting to a wired LAN, configure the wired LAN connection settings after exiting the Setup Guide. **Selecting Wired or Wireless LAN(P. 48)**

2 Select the Wireless LAN connection type, and connect to the Wireless LAN.

➡ When the connection to the wireless LAN is completed, the [Application Library] screen is displayed.

Depending on your wireless LAN router, the connection type and security standards may vary. Check for a connection type and security standard that are supported by both the wireless LAN router and the machine, and then establish a connection according to the connection type. For the standards and procedure, see the following:
Connecting to a Wireless LAN(P. 50)

Step 5: Viewing an Overview of the Application Library and Setup Method

1 On the [Application Library] screen, you can see a description of each function.

- Press [See More Info.] to see an overview of each function in the Application Library. Press [About Remote UI] to see the setup method of the Application Library.
- For more information, see the manual of the Application Library. You can display the manual by pressing [User's Manual] and scanning the displayed QR code with a mobile device.

2 Press [End].

➡ The settings configured in the Setup Guide are applied.
When you exit the Setup Guide, the [Home] screen is displayed. **[Home] Screen(P. 97)**

Setting Up the Network

864Y-013

To operate the machine from a computer or to connect to a server, you must connect the machine to a network.
Use the procedure below to connect the machine to a network and configure the settings of the machine according to the network environment.

Administrator privileges are required to set up the network.
Depending on the model, the System Manager ID and System Manager PIN may be set by default. **System Manager ID and PIN(P. 9)**

IMPORTANT

- Connecting the machine to a network without proper security measures may leak information from the machine to third parties. **Protecting the Network(P. 223)**

■Preparing to Set Up the Network

- Provide an Ethernet cable and router according to the usage environment of the machine.
- Check the information of the network environment used by the machine and the required network settings. For details, contact the network administrator.
- Check that the computer and router to be used in the network are properly connected, and complete the network settings. For details on the connection method, see the manuals of the devices or contact the manufacturer.

■Network Settings Procedure

Step 1	Select whether to use wired or wireless LAN and connect to the network. **To connect to a Wired LAN** **Selecting Wired or Wireless LAN(P. 48)** **Connecting to a Wired LAN(P. 49)** **To connect to a Wireless LAN** **Selecting Wired or Wireless LAN(P. 48)** **Connecting to a Wireless LAN(P. 50)**

▼

Step 2	Set the IP address. - By default, when the machine connects to a wired or wireless LAN, an IP address is obtained automatically and set to the machine. - To use a specific IP address, set this manually. **Setting IPv4 Addresses(P. 61)** **Setting IPv6 Addresses(P. 63)** * When setting an IP address manually, you cannot use the operation panel to configure some IPv6 address settings. It is recommended to use the operation panel to set the IPv4 address, and then use Remote UI to set the IPv6 address.

▼

Step 3	Configure the settings of the machine according to the network environment, as needed. **Configuring Your Machine for Your Network Environment(P. 65)** * You cannot use the operation panel to configure some of the settings. It is recommended that you configure the settings using Remote UI in Step 3

■ Checks after Configuring the Network Settings

Check that the machine is properly connected to the network.
Check the IP address and MAC address of the machine and other information, as needed.
Checking the Network Status and Settings(P. 79)

Selecting Wired or Wireless LAN

864Y-014

Set whether to connect the machine to the network using a wired or wireless LAN.
If you want to switch from wired LAN to wireless LAN, you can make the setting during the procedure for connecting to wireless LAN. **Connecting to a Wireless LAN(P. 50)**
* You cannot connect to a wired LAN and wireless LAN at the same time.

Use the operation panel to configure the settings. On the operation panel, you can also configure the settings by pressing [Menu] in the [Home] screen ▶ [Preferences]. You cannot configure the settings using Remote UI from a computer.
Administrator privileges are required.

1 On the operation panel, press [ ] (wired LAN) or [ ] (wireless LAN) in the [Home] screen. [Home] Screen(P. 97)

➡ The [Network] screen is displayed.

If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

2 Press [Select Wired/Wireless LAN].

3 Select [Wired LAN] or [Wireless LAN].

➡ The message [Settings configured.] appears.
Next, connect to the wired or wireless LAN.
Connecting to a Wired LAN(P. 49)
Connecting to a Wireless LAN(P. 50)

IMPORTANT

When Switching between Wired and Wireless LAN

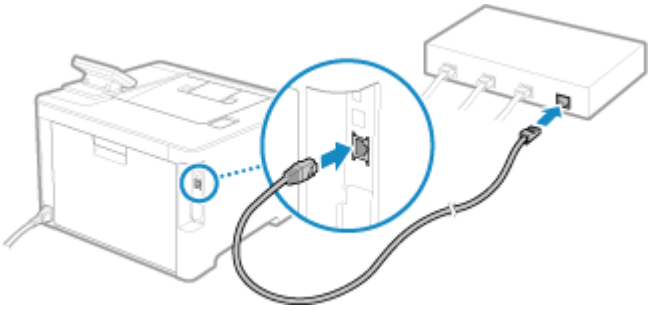
- Any installed drivers must be uninstalled and then reinstalled.
  For details about uninstalling and installing drivers, see the driver manual at the online manual site.
  https://oip.manual.canon/

Connecting to a Wired LAN

864Y-015

Connect a computer to the machine via a router. Use an Ethernet cable to connect the machine to the router.

1 Connect an Ethernet cable to the machine and router.



➡ When the machine is connected to the wired LAN, [ ] appears on the [Home] screen and screen of each function.

Insert the connector all the way into the port until it clicks in place.

2 Wait a few minutes.

➡ By default, the IP address is set automatically.
To use a specific IP address, set this manually.
Setting IPv4 Addresses(P. 61)
Setting IPv6 Addresses(P. 63)

Connecting to a Wireless LAN

864Y-016

Connect a computer to the machine via a wireless LAN router (access point).
Depending on your wireless LAN router, the connection type and security standards may vary. Check for a connection type and security standard that are supported by both the wireless LAN router and the machine, and then establish a connection according to the connection type.
Depending on the connection type, you must enter the security information of the wireless LAN router.

Checking the Connection Types and Security Standards Supported by the Machine(P. 50)
Wireless LAN Router Information Required for Connection(P. 51)

IMPORTANT

Connect with a Secure Network Environment

- The radio waves used for wireless communication can reach beyond walls and other obstructions within a certain range. Therefore, connecting the machine to a network without proper security measures may leak personal data and other information to third parties. Connect the machine to a wireless LAN at your own discretion and responsibility. **Protecting the Network(P. 223)**

NOTE

Reducing Power Consumption

- When Power Save Mode is enabled, the machine regularly enters the power save state according to the signal transmitted by the wireless LAN router. **[Power Save Mode](P. 316)**

Checking the Connection Types and Security Standards Supported by the Machine

■ Connection Type

Connect using a type that is supported by your wireless LAN router. To specify the authentication, encryption, or other security method in detail, use the manual setup method to connect.
The following connection types are supported by the machine:

Push Button Mode (WPS)



If the wireless LAN router has the above symbol on the package or the button of the device, you can easily connect by pressing the button.
Connecting to a Wireless LAN by Using the Router Button (Push Button Mode)(P. 53)

WPS PIN Code Mode

If you are using a WPS router that does not support the push button mode, enter the PIN code to connect.
Connecting to a Wireless LAN by Entering a PIN Code (WPS PIN Code Mode)(P. 54)

* If the wireless LAN router is set up to use WEP authentication, you may not be able to connect with WPS. In this case, use the manual setup method to connect.

Access Point Setup Method

Search for the wireless LAN router from the machine, and enter the network key manually to connect.
Connecting to a Wireless LAN by Searching for a Router (Access Point Setup Method)(P. 56)

When you connect with the access point setup method, the following authentication and encryption methods are set:

- WEP authentication method: Open System
- Encryption for WPA/WPA2: AES-CCMP or TKIP is set automatically according to the selected wireless LAN router.

To specify a different authentication or encryption method, use the manual setup method to connect.

Manual Setup Method

In addition to the SSID and network key, manually enter all the wireless LAN settings such as the authentication and encryption methods to connect.
Connecting to a Wireless LAN by Setting the Details (Manual Setup Method)(P. 58)

■ Security Standards

The wireless LAN of the machine supports the security standards below. For details on whether your wireless LAN router supports these standards, see the manual of the wireless LAN router or contact the manufacturer.

- WEP
- WPA-PSK
- WPA2-PSK
- WPA-EAP
- WPA2-EAP

Wireless LAN Router Information Required for Connection

When connecting with the access point setup method or the manual setup method, you must set the information below.
This information is listed on the main unit of the wireless LAN router. For details, see the manual of the wireless LAN router or contact the manufacturer.

SSID
This is the name used to identify the wireless LAN router. This may be listed as the access point name or network name.

Network Key
This is the keyword used for data encryption or the password used for network authentication. This may be listed as the encryption key, WEP key, WPA/WPA2 passphrase, or pre-shared key (PSK).

Security Standards
These are required when connecting with the manual setup method. Check the following information:

Security Standards

- WEP
- WPA-PSK
- WPA2-PSK
- WPA-EAP
- WPA2-EAP

WEP Authentication Method

- Open System

- Shared Key

Encryption for WPA/WPA2

- TKIP
- AES-CCMP
- IEEE 802.1X Authentication

Connecting to a Wireless LAN by Using the Router Button (Push Button Mode)

864Y-017

If your wireless LAN router supports WPS push button mode, you can easily set up a connection simply by using the operation panel of the machine and the button on the wireless LAN router.

Administrator privileges are required to connect to a wireless LAN.

1 On the operation panel, press [Wireless LAN Settings] in the [Home] screen. [Home] Screen(P. 97)

➡ The [Select Network] screen is displayed.

- If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**
- If the message [Do you want to enable the wireless LAN?] appears, press [Yes].
- If the message [Could not find the access point.] appears, press [Close].

2 Press [Other Connections].

3 Press [WPS Push Button Mode].

➡ The machine starts searching for an access point.

4 After the search for an access point starts, press the button on the wireless LAN router within two minutes.

Press the button within two minutes. (Depending on the wireless LAN router, you may have to press and hold the button.)

* For details on how to operate the button, see the manual of your wireless LAN router.

5 When [Connected.] appears on the operation panel, press [Close].

➡ When the machine is connected to the wireless LAN, [] appears on the [Home] screen and screen of each function.

6 Wait a few minutes.

➡ By default, an IP address is set automatically.
To use a specific IP address, set this manually.
Setting IPv4 Addresses(P. 61)
Setting IPv6 Addresses(P. 63)

NOTE

If an Error Message Appears during Operation and a Connection Cannot Be Established

- Press [Close], and repeat the procedure starting from Step 2.

Connecting to a Wireless LAN by Entering a PIN Code (WPS PIN Code Mode)

864Y-018

When the wireless LAN router supports WPS PIN code mode, you can establish a connection by registering a PIN code generated on the machine to the wireless LAN router. Use a computer to register the PIN code.

Administrator privileges are required to connect to a wireless LAN.

Required Preparations

- Access the wireless LAN router from a computer, and enable registration of a WPS PIN code.
  * For details on how to register a WPS PIN code, see the manual of your wireless LAN router.

1 On the operation panel, press [Wireless LAN Settings] in the [Home] screen. [Home] Screen(P. 97)

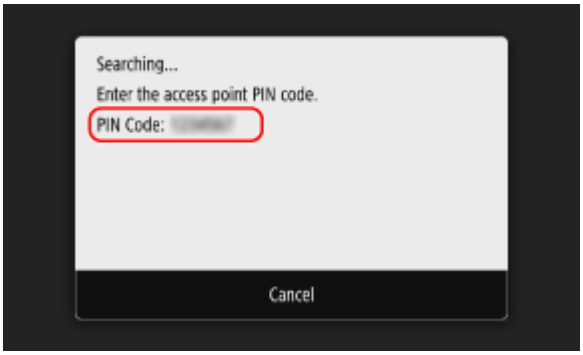
➡ The [Select Network] screen is displayed.

- If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**
- If the message [Do you want to enable the wireless LAN?] appears, press [Yes].
- If the message [Could not find the access point.] appears, press [Close].

2 Press [Other Connections].

3 Press [WPS PIN Code Mode].

➡ A PIN code is generated.



Once this screen is displayed, you must register the WPS PIN code to the wireless LAN router within 10 minutes.

4 Access the wireless LAN router from a computer, and register the WPS PIN code to the router.

5 When [Connected.] appears on the operation panel, press [Close].

➡ When the machine is connected to the wireless LAN, [] appears on the [Home] screen and screen of each function.

6 Wait a few minutes.

➡ By default, an IP address is set automatically.
To use a specific IP address, set this manually.
Setting IPv4 Addresses(P. 61)
Setting IPv6 Addresses(P. 63)

NOTE

If an Error Message Appears during Operation and a Connection Cannot Be Established

- Press [Close], and repeat the procedure starting from Step 2.

Connecting to a Wireless LAN by Searching for a Router (Access Point Setup Method)

864Y-019

Search for a wireless LAN router (access point) to which to connect, and enter the network key.
When you connect with the access point setup method, the following authentication and encryption methods are set:

- WEP authentication method: Open System
- Encryption for WPA/WPA2: AES-CCMP or TKIP is set automatically according to the selected wireless LAN router.

To specify a different authentication or encryption method, use the manual setup method to connect. **Connecting to a Wireless LAN by Setting the Details (Manual Setup Method)(P. 58)**

Administrator privileges are required to connect to a wireless LAN.

Required Preparations

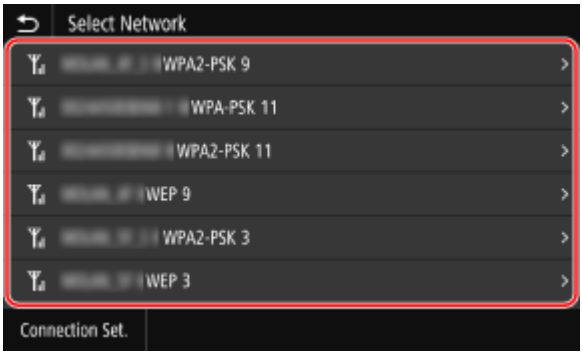
- Prepare the information of the wireless LAN router (SSID or network key) to which you want to connect, and keep it close by. **Wireless LAN Router Information Required for Connection(P. 51)**
- When connecting to a wireless LAN router supporting WPA-EAP or WPA2-EAP for the security standard, set IEEE 802.1X. **Using IEEE 802.1X(P. 236)**

1 On the operation panel, press [Wireless LAN Settings] in the [Home] screen. [Home] Screen(P. 97)

➡ The [Select Network] screen is displayed.

- If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**
- If the message [Do you want to enable the wireless LAN?] appears, press [Yes].
- If the message [Could not find the access point.] appears, check that the router is discoverable. **Cannot Connect to Wireless LAN(P. 466)**

2 Select the SSID of the wireless LAN to which you want to connect.



➡ The Network Key input screen is displayed.
When selecting the SSID of the wireless LAN router supporting WPA-EAP or WPA2-EAP for the security standard, the message [To connect, the values configured in IEEE 802.1X Settings will be applied.] appears. Press [OK], and proceed to Step 4.

If you cannot find the wireless LAN router to which you want to connect, check that the router is discoverable. **Cannot Connect to Wireless LAN(P. 466)**

3 Enter the network key, and press [Apply].

4 When [Connected.] is displayed on the operation panel, press [Close].

➡ When the machine is connected to the wireless LAN, [] appears on the [Home] screen and screen of each function.

5 Wait a few minutes.

➡ By default, an IP address is set automatically.
To use a specific IP address, set this manually.
Setting IPv4 Addresses(P. 61)
Setting IPv6 Addresses(P. 63)

NOTE

If an Error Message Appears during Operation and a Connection Cannot Be Established

- Press [Close], check the information (SSID or network key) of the wireless LAN router to which you want to connect, and repeat the procedure starting from Step 2.

Connecting to a Wireless LAN by Setting the Details (Manual Setup Method)

864Y-01A

You can connect to a wireless LAN router by manually entering all information of the router such as the SSID, network key, and security settings.

Administrator privileges are required to connect to a wireless LAN.

Required Preparations

- Prepare the information of the wireless LAN router to which you want to connect, and keep it close by. **Wireless LAN Router Information Required for Connection(P. 51)**
- When connecting to a wireless LAN router supporting WPA-EAP or WPA2-EAP for the security standard, set IEEE 802.1X. **Using IEEE 802.1X(P. 236)**

1 On the operation panel, press [Wireless LAN Settings] in the [Home] screen. [Home] Screen(P. 97)

➡ The [Select Network] screen is displayed.

- If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**
- If the message [Do you want to enable the wireless LAN?] appears, press [Yes].
- If the message [Could not find the access point.] appears, press [Close].

2 Press [Other Connections].

3 Press [Manually Enter Network Name (SSID)].

➡ The SSID input screen is displayed.

4 Enter the SSID, and press [Apply].

➡ The [Security Settings] screen is displayed.

5 Select the security standard, and set the authentication and encryption.

■When using WEP

1 Press [WEP].

➡ The [802.11 Authentication] screen is displayed.

2 Select the authentication method.

[Open System]

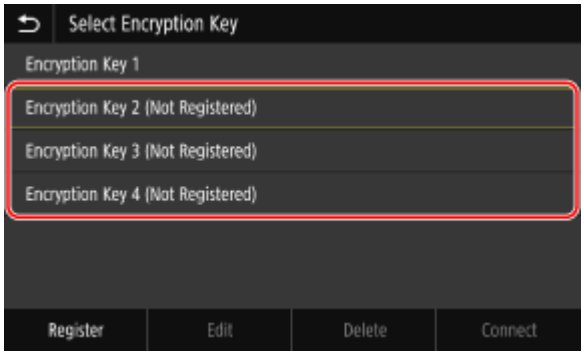
Uses open authentication.

* When you select this authentication method, an authentication error occurs when connected to a wireless LAN router that uses a shared key. The machine setting changes to [Shared Key] at this time, and an attempt to reconnect to the router is made.

[Shared Key]

Uses an encryption key for the password.

3 Select an encryption key that is not registered, and press [Register].



➠ The encryption key input screen is displayed.

4 Enter the network key, and press [Apply].

➠ The encryption key is registered to the [Select Encryption Key] screen.

5 Select a registered encryption key, and press [Connect].

■ When Using WPA-PSK or WPA2-PSK

1 Press [WPA/WPA2-PSK].

➠ The [WPA/WPA2 Encryption Method] screen is displayed.

2 Select the encryption method.

➠ The encryption key input screen is displayed.

When you select [Auto], AES-CCMP or TKIP is set automatically according to the wireless LAN router to which you want to connect.

3 Enter the network key, and press [Apply].

■ When Using WPA-EAP or WPA2-EAP

Press [WPA/WPA2-EAP] ▶ [OK].

■ When Not Using a Security Standard

Press [None].

6 When [Connected.] is displayed on the operation panel, press [Close].

➠ When the machine is connected to the wireless LAN, [ ] appears on the [Home] screen and screen of each function.

7 Wait a few minutes.

➠ By default, an IP address is set automatically.
To use a specific IP address, set this manually.
Setting IPv4 Addresses(P. 61)

Setting IPv6 Addresses(P. 63)

NOTE

If an Error Message Appears during Operation and a Connection Cannot Be Established

- Press [Close], check the information of the wireless LAN router to which you want to connect, and repeat the procedure starting from Step 2.

Setting IPv4 Addresses

864Y-01C

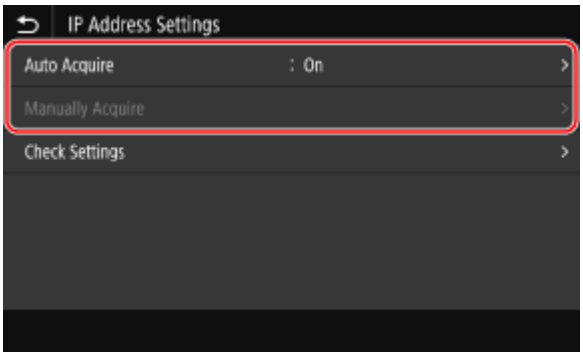
The machine's IPv4 address can either be assigned automatically using DHCP or entered manually.
By default, the IPv4 address is set automatically when connected to a wired or wireless LAN, but you can set it or change it manually according to your usage environment and purpose.

This section describes how to configure the settings using the operation panel.
You can also set the IPv4 address using Remote UI from a computer after it has been set on the machine. **Managing the Machine from a Computer (Remote UI)(P. 276)**
Administrator privileges are required. The machine must be restarted to apply the settings.

1 On the operation panel, press [Menu] in the [Home] screen. **[Home] Screen(P. 97)**

2 Press [Preferences] ▶ [Network] ▶ [TCP/IP Settings] ▶ [IPv4 Settings] ▶ [IP Address Settings].
If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

3 Set the IP address.



■ When Manually Setting the IP Address

1. Press [Auto Acquire].
   ➠ The [IP Address Settings (Auto Acquire)] screen is displayed.
2. Set [Auto Acquire] to [Off], and press [Apply] ▶ [OK].
   ➠ The [IP Address Settings] screen is displayed.
3. Press [Manually Acquire].
   ➠ The IP address input screen is displayed.
4. Enter the IP address, subnet mask, and gateway address, and press [Apply].

■When Assigning an IP Address Automatically

1. Press [Auto Acquire].
   ➠ The [IP Address Settings (Auto Acquire)] screen is displayed.
2. Set [Auto Acquire] to [On].
3. Configure the Auto Acquire setting, as needed.

[Select Protocol]

Normally, set to [DHCP]. However, when [DHCP] is set in an environment where DHCP cannot be used, the machine will continue to confirm Auto Acquire in the network, creating unnecessary communication. When not using DHCP, set this to [Off].

[Auto IP]

Normally, set to [On]. Although priority is given to the IP address allocated with DHCP, if there is no response from DHCP, Auto IP will be used.

4 Press [Apply].

4 Press [OK].

5 Restart the machine. Restarting the Machine(P. 90)

➡ The settings are applied.
Perform a connection test to check whether the IPv4 address is correctly configured. **Checking the Network Status and Settings(P. 79)**

NOTE

Checking the Currently Set IP Address

- On the screen in Step 3, press [Check Settings] to check the current IP address setting. If the IP address is displayed as "0.0.0.0," it is not correctly configured.

If the IP Address Is Changed after Installing the Printer Driver

- In Windows, you must add a new port. **Configuring a Printer Port (Windows)(P. 149)**
  If you do not know which port is being used, see the following:
  Viewing the Printer Port(P. 522)
- In macOS, you must re-register the machine on the Mac. For details about registering the machine, see the manual of the driver at the online manual site.
  https://oip.manual.canon/

* If you are using DHCP to automatically obtain the IP address of the machine, the IP address may be changed automatically.

Setting IPv6 Addresses

864Y-01E

In an IPv6 environment, you can set the following IPv6 addresses and use them at the same time.

- **Link-Local Address**
  An address that can only be used within the same link. It cannot be used to communicate with devices beyond a router.
  A link-local address is automatically set when usage of IPv6 addresses is enabled.
- **Stateless Address**
  An address that is generated automatically using the network prefix provided by the router and the MAC address of the machine.
  This address is discarded when the machine is restarted or turned ON.
- **Manual Address**
  An address that is entered manually by specifying the IP address, prefix length, and default router address.
- **Stateful Address**
  An address obtained from a DHCP server using DHCPv6.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings.
You cannot use the operation panel to configure some of the settings. **[IPv6 Settings](P. 318)**
Administrator privileges are required. The machine must be restarted to apply the settings.

Required Preparations

- Set an IPv4 address to the machine. **Setting IPv4 Addresses(P. 61)**

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Network Settings] ▶ [IPv6 Settings] ▶ [Edit].

➡ The [Edit IPv6 Settings] screen is displayed.

4 In [IP Address Settings], select the [Use IPv6] checkbox.

5 Set the IPv6 address to use.

■When Using a Stateless Address

Select the [Use Stateless Address] checkbox.

■When Using a Manual Address

Select the [Use Manual Address] checkbox, and enter the IP address, prefix length, and default router address.

* You cannot enter a multicast address (address starting with "ff").

■When Using a Stateful Address

Select the [Use DHCPv6] checkbox.

6 Click [OK].

7 Restart the machine. Restarting the Machine(P. 90)

➠ The settings are applied.
Perform a connection test to check whether the IPv6 address is correctly configured. **Checking the Network Status and Settings(P. 79)**

NOTE

If the IP Address Is Changed after Installing the Printer Driver

- You must add a new port. **Adding a Port(P. 149)**

Configuring Your Machine for Your Network Environment

864Y-01F

The size and configuration of a network vary depending on the purpose and usage. The machine is equipped with a variety of technologies to support many environments.
Configure the settings of the machine according to your network environment, as needed.

Manually Configuring the Ethernet Settings(P. 66)
Configuring DNS(P. 67)
Configuring SMB(P. 70)
Configuring WINS(P. 71)
Configuring SNMP(P. 72)
Configuring SNTP(P. 75)
Configuring SLP Communication(P. 77)

■ See Also

To reduce the threat of unauthorized access and eavesdropping, it is recommended to configure the security settings according to your network environment.
Protecting the Network(P. 223)

NOTE

Using the Machine in a Network with IEEE 802.1X Authentication

- When connecting the machine to a network that uses IEEE 802.1X authentication, you must configure the settings on the machine such as the authentication method managed by the authentication server. **Using IEEE 802.1X(P. 236)**

Manually Configuring the Ethernet Settings

864Y-01H

By default, when the machine connects to a wired LAN, the Ethernet communication mode and Ethernet type are detected automatically, and these can be used without changes. Depending on the usage environment, you may have to change the Ethernet settings to suit the settings of peripheral devices.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. **[Ethernet Driver Settings](P. 312)**
Administrator privileges are required. The machine must be restarted to apply the settings.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Network Settings] ▶ [Ethernet Driver Settings] ▶ [Edit].

➡ The [Edit Ethernet Driver Settings] screen is displayed.

4 Clear the [Auto Detect] checkbox.

5 Select the communication mode.

Normally, select [Full Duplex]. When the network router is set to half duplex communication, select [Half Duplex].

6 Select the Ethernet type, and click [OK].

7 Restart the machine. Restarting the Machine(P. 90)

➡ The settings are applied.

Configuring DNS

864Y-01J

When using the machine in an environment with Domain Name System (DNS), configure the DNS server information and DHCP option settings.
In an environment without DNS, you can configure multicast DNS (mDNS) to use the DNS function. mDNS is used by Bonjour and other software.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. You cannot use the operation panel to configure some of the settings. **[TCP/IP Settings](P. 317)**
Administrator privileges are required. Depending on the item to be configured, you may have to restart the machine.

Required Preparations

- When configuring DNS for IPv6, configure the setting to use an IPv6 address. **Setting IPv6 Addresses(P. 63)**

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Network Settings] ▶ [IPv4 Settings] or [IPv6 Settings] ▶ [Edit].

➡ The [Edit IPv4 Settings] screen or [Edit IPv6 Settings] screen is displayed.

4 In [DHCP Option Settings], configure the DHCP option settings.

If you are not configuring the DHCP option settings, proceed to Step 5.

Select the checkboxes of the items to enable.

[Acquire Host Name] (IPv4 only)
Obtains a host name (Option 12) from the DHCP server.

[DNS Dynamic Update] (IPv4 only)
The DHCP server automatically updates the information (Option 81) corresponding to the host name in place of the machine.

[Acquire DNS Server Address]
Obtains a DNS server address (Option 6 for IPv4, Option 23 for IPv6) from the DHCP server.

[Acquire Domain Name]
Obtains a domain name (Option 15 for IPv4, Option 24 for IPv6) from the DHCP server.

[Acquire WINS Server Address] (IPv4 only)
Obtains a WINS server address (Option 44) from the DHCP server.

[Acquire POP Server Address] (IPv4 only)
Obtains a POP3 server address (Option 70) from the DHCP server.

5 In [DNS Settings], set the DNS server information.

- For details about the setting information, contact your provider or network administrator. You can also refer to the computer settings. **Viewing the Network Connection Information of the Computer(P. 520)**
- If you are not configuring the DNS server information, proceed to Step 6.

[Primary DNS Server Address]
Enter the IP address of the DNS server.
* For IPv6, you cannot enter a multicast address (address starting with "ff").

[Secondary DNS Server Address]
When using a secondary DNS server, enter the IP address of that server.
* For IPv6, you cannot enter a multicast address (address starting with "ff").

[Use Same Host Name/Domain Name as IPv4] (IPv6 only)
Select the checkbox to use the same host and domain names as in IPv4.
To set the IPv6 host name and domain name individually, clear this checkbox, and enter [Host Name] and [Domain Name].

[Host Name]
Enter the host name to register in the DNS server using single-byte alphanumeric characters.

[Domain Name]
Enter the domain name to which the machine belongs using single-byte alphanumeric characters.
Input example:
example.com

[DNS Dynamic Update]
Select the checkbox to automatically update the DNS records when the corresponding information of the host name and IP address is changed in a DHCP environment, for example.

To Specify the Type of Address to Register to the DNS Server (IPv6 only)

Depending on the type of address you want to register, select the [Register Manual Address], [Register Stateful Address], or [Register Stateless Address] checkbox.

To Specify the Interval between Updates

In [DNS Dynamic Update Interval], enter the interval at which to automatically update this information.

6 In [mDNS Settings], configure the mDNS settings.

If you are not configuring the mDNS settings, proceed to Step 7.

For IPv4

To use mDNS, select the [Use mDNS] checkbox, and enter the mDNS name.

For IPv6

To use mDNS, select the [Use mDNS] checkbox, and select whether to use the same mDNS name as IPv4.

- To use the mDNS name set with IPv4 also with IPv6, select the [Use Same mDNS Name as IPv4] checkbox.
- To configure the mDNS name of IPv6 individually, clear the [Use Same mDNS Name as IPv4] checkbox, and enter the mDNS name.

7 Click [OK].

8 Restart the machine. Restarting the Machine(P. 90)

➠ The settings are applied.

Configuring SMB

864Y-01K

The Server Message Block (SMB) communication protocol is used to enable the machine as a shared printer on the network. Depending on the network environment, you may have to set the computer name and workgroup name of the machine

Setting the Computer Name and Workgroup Name

Set the computer name used to identify the machine in a network and the workgroup name to identify the group that the machine belongs to.

Configure these settings using Remote UI from a computer. You cannot use the operation panel to configure the settings.
Administrator privileges are required. The machine must be restarted to apply the settings.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Network Settings] ▶ [Computer Name/Workgroup Name Settings] ▶ [Edit].

➡ The [Edit Computer Name/Workgroup Name Settings] screen is displayed.

4 Enter the computer name and workgroup name of the machine, and click [OK].

Enter using single-byte alphanumeric characters.

■In an Environment with WINS

- Select the [Use NetBIOS] checkbox.
- You cannot register names that start with an asterisk (*) to the WINS server.

5 Restart the machine. Restarting the Machine(P. 90)

➡ The settings are applied.

Configuring WINS

864Y-01L

When using the machine in a network environment that uses both NetBIOS and TCP/IP, configure Windows Internet Name Service (WINS) to convert the NetBIOS name to an IP address.
To enable WINS, specify the WINS server. WINS cannot be used in an IPv6 environment.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. **[WINS Settings](P. 320)**
Administrator privileges are required. The machine must be restarted to apply the settings.

Required Preparations

- Set the computer name and workgroup name. **Setting the Computer Name and Workgroup Name(P. 70)**
- Prepare the IPv4 address of the WINS server and keep it close by.

1 **Log in to Remote UI in System Manager Mode.** **Starting Remote UI(P. 277)**

2 **On the Portal page of Remote UI, click [Settings/Registration].** **Portal Page of Remote UI(P. 280)**

3 **Click [Network Settings] ▶ [WINS Settings] ▶ [Edit].**

➡ The [Edit WINS Settings] screen is displayed.

4 **Select the [WINS Resolution] checkbox.**

5 **Enter the IPv4 address of the WINS server, and click [OK].**

If the IP address of the WINS server is obtained from a DHCP server, the obtained IP address has priority. **Configuring DNS(P. 67)**

6 **Restart the machine.** **Restarting the Machine(P. 90)**

➡ The settings are applied.

Configuring SNMP

864Y-01R

Simple Network Management Protocol (SNMP) is a protocol for monitoring and controlling communication devices in a network by accessing a Management Information Base (MIB). Configure these settings according to the purpose of use and environment of the machine.
The machine supports SNMPv1 and SNMPv3. You can also use both at the same time. Trap notification is not supported.
When SNMP management software is installed on the network, you can use the software to configure, monitor, and control the machine remotely from a computer. For more information, see the manual of the software you are using.

SNMPv1
SNMPv1 defines the scope of communication using information called a "community name." As the community name is sent to the network in plain text, the security of the network is vulnerable. To ensure network security, disable SNMPv1 and use SNMPv3. When SNMPv1 is disabled, you will not be able to use some functions such as obtaining information from the machine using the printer driver.

SNMPv3
SNMPv3 communicates using user information for SNMPv3. This protocol enables you to configure the authentication and encryption in the user information to monitor and control communication devices on the network with a solid security system.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. However, the operation panel can only be used to enable or disable SNMPv1 and SnMPv3. **[SNMP Settings](P. 311)**
Administrator privileges are required. The machine must be restarted to apply the settings.

Required Preparations

- To configure SNMPv3, you must enable TLS. **Using TLS(P. 230)**

1 Log in to Remote UI in System Manager Mode. **Starting Remote UI(P. 277)**

2 On the Portal page of Remote UI, click [Settings/Registration]. **Portal Page of Remote UI(P. 280)**

3 Click [Network Settings] ▶ [SNMP Settings] ▶ [Edit].

➡ The [Edit SNMP Settings] screen is displayed.

4 In [SNMPv1 Settings], set SNMPv1.

■To Enable SNMPv1

1. Select the [Use SNMPv1] checkbox.
2. Configure the community.
   - You can set MIB Access Permission (permission to read/write to MIB objects) for each community.
   - When using both SNMPv1 and SNMPv3, it is recommended to set MIB Access Permission to [Read Only]. When setting SNMPv1 to [Read/Write] (full-access permission), you can perform nearly all operations, and therefore, you are not able to use the solid security features of SNMPv3.

To Configure the Community Name

Select the [Use Community Name 1] or [Use Community Name 2] checkbox, and configure the community name and MIB Access Permission.
Enter the community name using single-byte alphanumeric characters.

To Configure a Dedicated Community

Dedicated Community is a preset community for Canon Device Management software.
To use Dedicated Community, select the [Use Dedicated Community] checkbox, and configure MIB Access Permission.
* For details, see the manual of the software you are using.

■To Disable SNMPv1

Clear the [Use SNMPv1] checkbox.

5 In [SNMPv3 Settings], configure SNMPv3.

■To Enable SNMPv3

1. Select the [Use SNMPv3] checkbox.
2. In [User Settings 1], [User Settings 2], or [User Settings 3], select the [Enable User] checkbox.
3. Configure the user.

[User Name]

Enter the user name using single-byte alphanumeric characters.

[MIB Access Permission]

Set the read/write permission to MIB objects for each specified user.
To allow both read and write, select [Read/Write].

[Security Settings]

Select whether to enable or disable authentication and encryption.

[Authentication Algorithm]

When [Authentication On/Encryption On] or [Authentication On/Encryption Off] is selected in [Security Settings], select the authentication algorithm according to the usage environment.
To set a password, select the [Set/Change Password] checkbox, and enter the same password in both [Authentication Password] and [Confirm] using single-byte alphanumeric characters.

[Encryption Algorithm]

When [Authentication On/Encryption On] is selected in [Security Settings], select the encryption algorithm according to the usage environment.
To set a password, select the [Set/Change Password] checkbox, and enter the same password in both [Encryption Password] and [Confirm] using single-byte alphanumeric characters.

■To Disable SNMPv3

Clear the [Use SNMPv3] checkbox.

6 In [Printer Management Information Acquisition Settings], select whether to obtain the printer management information.

To regularly obtain printer management information from the machine, such as protocols and ports, select the [Acquire Printer Management Information from Host] checkbox.

7 Click [OK].

8 Restart the machine. Restarting the Machine(P. 90)

➠ The settings are applied.

NOTE

Changing the Port Number

- To change the port number of the SNMP server, see the following: **Changing the Port Number(P. 227)**

Configuring SNTP

864Y-01S

To obtain time information from the time server on the network, configure Simple Network Time Protocol (SNTP).
When SNTP is configured, the time server is checked at specified intervals to adjust the time and maintain the correct time on the machine.
The machine supports both an NTP server (NTPv3) and SNTP server (SNTPv3 and v4).

Configure these settings using Remote UI from a computer. You cannot use the operation panel to configure the settings.
Administrator privileges are required. The machine must be restarted to apply the settings.

Required Preparations

- The time is adjusted based on the UTC (Coordinated Universal Time), so specify the time zone setting. **Setting the Date and Time(P. 275)**
- Prepare the IP address of the NTP or SNTP server and keep it close by.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Network Settings] ▶ [SNTP Settings] ▶ [Edit].

➡ The [Edit SNTP Settings] screen is displayed.

4 Select the [Use SNTP] checkbox.

5 In [NTP Server Name], enter the IP address of the NTP/SNTP server.

When using a DNS server, you can enter the host name or FQDN instead of the IP address.

Input example:
ntp.example.com

6 In [Polling Interval], enter the interval at which to check the server and adjust the time.

7 Click [OK].

8 Restart the machine. Restarting the Machine(P. 90)

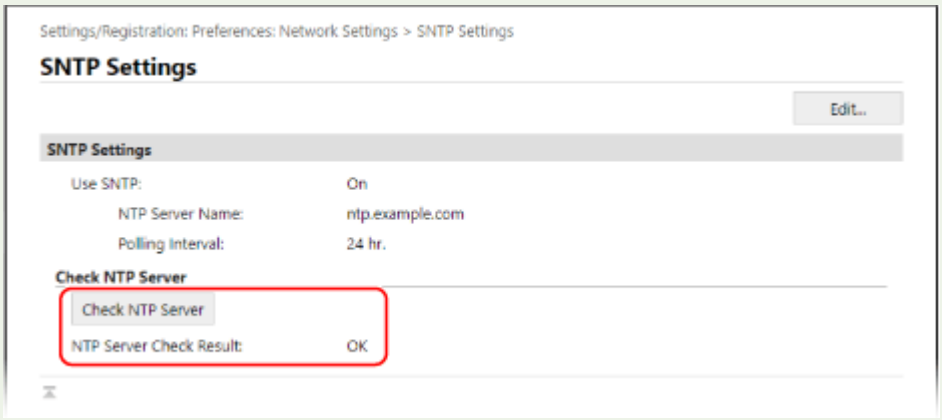
➡ The settings are applied.

NOTE

Testing Communication with the NTP or SNTP Server

- Test communication using the following procedure: If the machine is correctly communicating with the server, [OK] appears in [NTP Server Check Result].

> Log in to Remote UI in System Manager Mode ▶ click [Settings/Registration] ▶ [Network Settings] ▶ [SNTP Settings] ▶ [Check NTP Server].



* This tests the communication status and does not adjust the time.

Configuring SLP Communication

864Y-01U

When using the machine in an environment using a Service Location Protocol (SLP) with software installed to perform communication, configure the SLP communication settings, as needed.
* See the manual of the software to determine the settings that need to be configured.

Configure these settings using Remote UI from a computer. You cannot use the operation panel to configure the settings.
Administrator privileges are required. The machine must be restarted to apply the settings.

Required Preparations

- Prepare the port number used for SLP communication with the software and keep it close by.
- Check the number of routers the SLP communication packets will traverse.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Network Settings] ▶ [Multicast Discovery Settings] ▶ [Edit].

➡ The [Edit Multicast Discovery Settings] screen is displayed.

4 Select the [Respond to Discovery] checkbox, enter the scope name, and click [OK].

For the scope name, enter the name of the scope to which the machine belongs using single-byte alphanumeric characters.

5 Click [Network Settings] ▶ [Sleep Mode Notification Settings] ▶ [Edit].

➡ The [Edit Sleep Mode Notification Settings] screen is displayed.

6 Select the [Notify] checkbox.

A notification of the power status of the machine is sent to the software. This helps reduce unneeded communication during sleep mode and power consumption.

7 Configuring Sleep Mode Notifications

[Port Number]

Enter the port number used for SLP communication with the software.

[Number of Routers to Traverse]

Enter the maximum number of routers that SLP communication packets can traverse.

[Notification Interval]

Enter the interval at which notifications are sent about the power status of the machine.

8 **Click [OK].**

9 **Restart the machine.** **Restarting the Machine(P. 90)**

➠ The settings are applied.

Checking the Network Status and Settings

864Y-01W

You can perform a connection test with devices in the network to check whether the machine is correctly connected to the network.
The IP address of the machine and the MAC address information are needed to use Remote UI and configure the firewall settings. Check these current settings.

Checking Whether the Machine Can Connect to Network Devices(P. 79)
Viewing the IP address set to the machine(P. 80)
Viewing the MAC Address of the Wired LAN(P. 80)
Viewing the MAC Address and Connection Information of the Wireless LAN(P. 81)

NOTE

- If the IP address is displayed as "0.0.0.0," it is not correctly configured. Set the IP address again.
  Setting IPv4 Addresses(P. 61)
  Setting IPv6 Addresses(P. 63)
- Connecting the machine to a switching hub, for example, may prevent connection to the network even when the IP address is correctly configured. In this case, set a wait time until machine starts communicating and try connecting again. **[Wait Time for Conn. at Startup](P. 312)**
- You can print the System Manager Data List to view the network settings. **Printing and Viewing Reports and Lists(P. 286)**

Checking Whether the Machine Can Connect to Network Devices

In the Web browser of the computer connected to the network, enter the IPv4 or IPv6 address of the machine. If the Remote UI login screen is displayed, the machine is properly connected to the network. **Starting Remote UI(P. 277)**

When using an IPv4 address, you can use the following procedure to send a ping command from the operation panel to check whether the machine can connect to a network device.

Required Preparations

- Prepare the IPv4 address of a device in the network to which you want to connect and keep it close by.

1 **On the operation panel, press [Menu] in the [Home] screen.** **[Home] Screen(P. 97)**

2 **Press [Preferences] ▶ [Network] ▶ [TCP/IP Settings] ▶ [IPv4 Settings] ▶ [PING Command].**
If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

3 **Enter the IPv4 address of a network device, and press [Apply].**

➡ If the machine is correctly connected to the network, [Received response from the host.] appears.

Viewing the IP address set to the machine

You can view the setting of IP address set to the machine such as the IPv4 address and the IPv6 address.

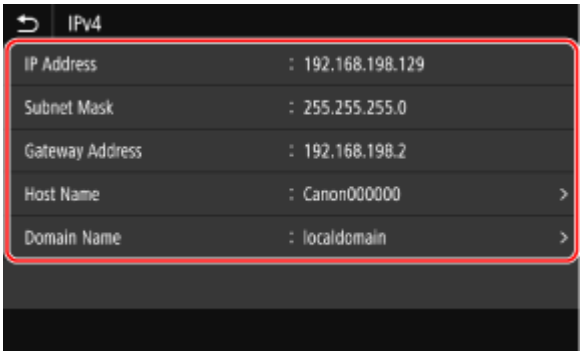
This section describes how to view the IP address using the operation panel.
You can also check this information using Remote UI from a computer. **Managing the Machine from a Computer (Remote UI)(P. 276)**

1 On the operation panel, press [Status Monitor] in the [Home] screen or other location. [Home] Screen(P. 97)

➡ The [Status Monitor] screen is displayed.

2 Press [Network Information] ▶ [IPv4] or [IPv6].

3 View the setting.



For IPv6, select the item you want to view, and the setting of that item will be displayed.

Viewing the MAC Address of the Wired LAN

You can view the MAC address set to the machine when the machine is connected to the wired LAN.

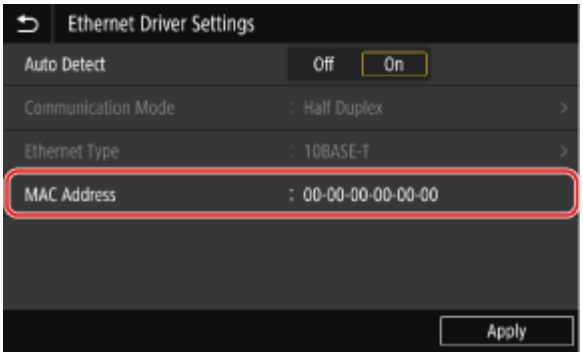
This section describes how to view this information using the operation panel.
You can also use Remote UI from a computer to view the MAC address. **Managing the Machine from a Computer (Remote UI)(P. 276)**
Administrator privileges are required.

1 On the operation panel, press [Menu] in the [Home] screen. [Home] Screen(P. 97)

2 Press [Preferences] ▶ [Network] ▶ [Ethernet Driver Settings].

If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

3 View the MAC address.



Viewing the MAC Address and Connection Information of the Wireless LAN

In addition to the MAC address and connection information of the wireless LAN when the machine is connected to the wireless LAN, you can also view the security settings.

This section describes how to view this information using the operation panel.
You can also check this information using Remote UI from a computer. **Managing the Machine from a Computer (Remote UI)(P. 276)**
Administrator privileges are required.

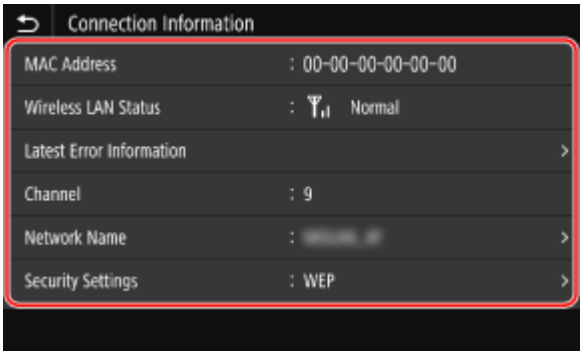
1 On the operation panel, press [Wireless LAN Settings] in the [Home] screen. [Home] Screen(P. 97)

➡ The [Select Network] screen is displayed.

If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

2 Press [Connection Set.] ▶ [Connection Information].

3 View the MAC address and the settings.



- Press [Latest Error Information] to display error information related to the wireless LAN connection.
- Press [Security Settings] to display the WEP or WPA/WPA2-PSK details.

NOTE

Viewing Information with the [Status Monitor] Screen

- You can also view the wireless LAN status and error information with the following procedure:

On the operation panel, [Home] or other location ▶ [Status Monitor] ▶ [Network Information] ▶ [Network Connection Type].

Installing Software and Drivers to the Computer

864Y-01X

Install the related software and drivers to the computer that will use the functions of the machine.
Install any options to the machine before installing the software and drivers.

Installation Procedure

Check the operating environment via the Canon website for your country/region, and download and install the latest software and drivers.
https://global.canon/en/support/

* If the machine is supplied with a CD-ROM or DVD-ROM, you can also use this to install the software and drivers.

For details about the installation method, see the manual of the software or driver at the online manual site.
https://oip.manual.canon/

Precautions and Limitations

Operating Environment

- Depending on the operating system, your computer may not support some software or drivers. For the latest information on the supported operating systems, see the Canon website.
  https://global.canon/en/support/
- Depending on the model and usage environment, some functions of the software or drivers may not be available.

When the Firewall Settings of the Machine Are Configured

The computer that will be used with the machine must be allowed to communicate with the machine. If the computer is not allowed to communicate with the machine, you will not be able to install the software and drivers or use the functions of the machine. **Setting the Firewall(P. 224)**

If the IP Address of the Machine Is Changed after Installing the Printer Driver

- In Windows, you must add a new port. **Configuring a Printer Port (Windows)(P. 149)**
  If you do not know which port is being used, see the following:
  Viewing the Printer Port(P. 522)
- In macOS, you must re-register the machine on the Mac. For details about registering the machine, see the manual of the driver at the online manual site.
  https://oip.manual.canon/

  * If you are using DHCP to automatically obtain the IP address of the machine, the IP address may be changed automatically.

NOTE

Using the Functions of the Machine without Installing Software or Drivers (macOS)

- You can use AirPrint standard equipped in macOS to print data from a computer without installing software or drivers. **Using AirPrint Application to Print Data(P. 203)**

Basic Operations

Basic Operations 84
Turning ON and OFF the Machine 85
Turning ON the Machine 86
Turning OFF the Machine 87
Restarting the Machine 90
Reducing Power Consumption (Sleep Mode) 92
Using the Operation Panel 94
Screens Displayed on the Operation Panel 95
[Home] Screen 97
[Status Monitor] Screen 99
How to Operate the Operation Panel 101
Entering Characters 104
Customizing the [Home] Screen 106
Rearranging the Buttons and Renaming the Tabs (Remote UI) 107
Logging In to the Machine 110
Loading Paper 111
Loading Paper in the Paper Drawer 112
Loading Paper in the Multi-purpose Tray 117
Preparations and Orientation for Loading Envelopes 120
Orientation for Loading Paper with a Logo 122
Specifying the Paper Size and Type 124
Setting the Paper Size and Type for the Paper Drawer 125
Setting the Paper Size and Type for the Multi-purpose Tray 127
Registering a Frequently Used Paper Size and Type for the Multi-purpose Tray 129
Registering Non-standard Size Paper (Custom Paper) 132
Hiding Unused Paper Sizes 133
Using the Appropriate Paper Source for Each Function 134
Inserting and Removing a USB Memory Device 135
Changing the Default Settings 137
Changing the Default Settings 138
Adjusting the Sound Volume 139
Adjusting the Volume 140
[Volume Settings] Screen 141

Basic Operations

864Y-01Y

This chapter describes the basic operations common to all functions of the machine and how to understand the screen layout.

Managing and Saving Power

You can turn OFF the power to conserve energy or when cleaning and restart the machine to apply the settings.
You can use sleep mode to reduce power consumption.
Turning ON and OFF the Machine(P. 85)
Reducing Power Consumption (Sleep Mode)(P. 92)

Using the Operational Panel

Use the operation panel to perform the functions such as Memory Media Print and Secure Print, and to configure the settings of the machine.
Using the Operation Panel(P. 94)

When the login screen is displayed, enter the required login information to continue operations.
Logging In to the Machine(P. 110)

Loading Paper

Load printing paper into the paper drawer or multi-purpose tray according to your usage.
Loading Paper(P. 111)

Using a USB Memory Device

When exchanging data between a USB memory device and the machine, handle the device properly to prevent damage to the device and errors.
Inserting and Removing a USB Memory Device(P. 135)

Customizing Functions and Settings

You can change the settings for easier and more convenient use of the machine.
Changing the Default Settings(P. 137)
Adjusting the Volume(P. 140)

Turning ON and OFF the Machine

864Y-020

Be sure to use the power switch to manually turn ON the power of the machine.
In addition to using the power switch, you can turn OFF the power and restart the machine using Remote UI from a computer.
You can also configure the machine to turn OFF automatically on days and times when not in use.

Turning ON the Machine(P. 86)
Turning OFF the Machine(P. 87)
Restarting the Machine(P. 90)

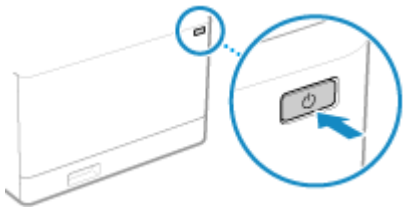
Turning ON the Machine

864Y-021

To turn ON the machine, press the power switch on the front.

1 Make sure that the power plug is inserted into a power outlet.

2 Press the power switch.



➡ The start screen is displayed on the operation panel.

NOTE

Changing the Screen that Appears at Startup

- After the power is turned ON and the start screen is displayed, the [Home] screen is displayed by default. You can configure the setting to display another function screen. **[Default Screen After Startup/ Restoration](P. 302)**

Turning OFF the Machine

864Y-022

In addition to using the power switch on the front of the machine, you can also turn OFF the power using Remote UI from a remote location. You can also configure the machine to turn OFF automatically on days and times when not in use.
Turning OFF the machine deletes any data waiting to be printed.

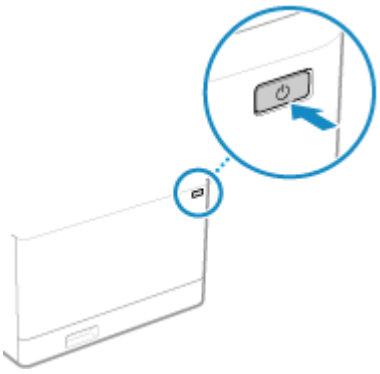
Turning OFF the Machine Using the Power Switch(P. 87)
Turning OFF the Machine Using Remote UI(P. 87)
Setting the Days of the Week and Time to Automatically Turn Off the Machine(P. 88)

NOTE

- The received data saved in the memory remains stored without being deleted even if the machine is turned OFF.

Turning OFF the Machine Using the Power Switch

1 Press the power switch.



➡ The operation panel turns off, and the power turns OFF.
It may take a few minutes until the power turns OFF. Do not unplug the power cord until the power turns OFF.

NOTE

Turning ON the Machine Again

- Wait at least 10 seconds after turning OFF the power before turning ON the machine.

Turning OFF the Machine Using Remote UI

Administrator privileges are required to turn OFF the machine using Remote UI.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Device Management] ▶ [Remote Shutdown].

➡ The [Remote Shutdown] screen is displayed.

4 In [Device Status], check that there are no functions operating, and then click [Execute].

➡ The shutdown confirmation message appears.

5 Click [OK].

➡ A screen indicating that the machine is being shut down is displayed, and then the power is turned OFF. When the power is turned OFF, Remote UI is disconnected.

Setting the Days of the Week and Time to Automatically Turn Off the Machine

Configure these settings using Remote UI from a computer. You cannot use the operation panel to configure the settings.
Administrator privileges are required.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

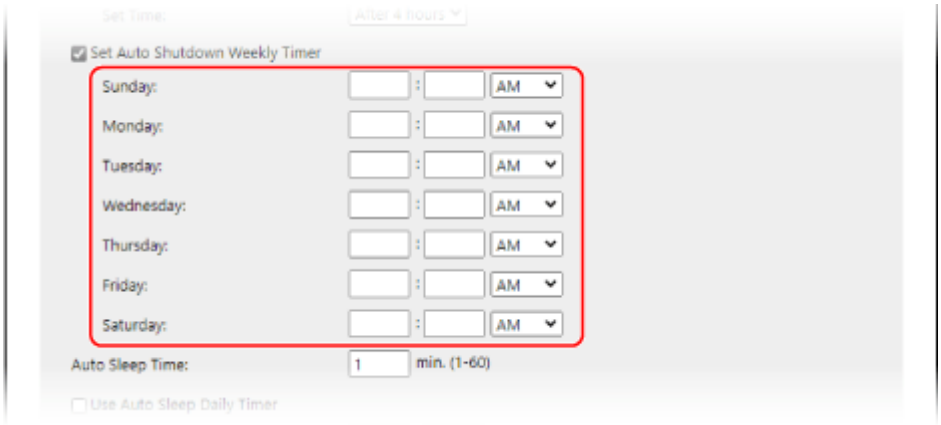
2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Timer Settings] ▶ [Edit].

➡ The [Edit Timer Settings] screen is displayed.

4 Select the [Set Auto Shutdown Weekly Timer] checkbox.

5 Enter a time for each day of the week you want to turn OFF the machine.



If you selected 12-hour format for the time display, select [AM] or [PM] after entering the time.

6 Click [OK].

➠ The settings are applied.

7 Log out from Remote UI.

NOTE

Cases When the Power Will Not Turn OFF at a Specified Time

- In the following cases, the power of the machine will not turn OFF at the specified time:
  - When the data indicator on the operation panel is lit or blinking **Operation Panel(P. 17)**
  - When the [Menu] screen or Check Counter screen is displayed on the operation panel
  - When importing or exporting data
  - When updating the firmware
- One minute after the specified time, the power will turn OFF or the operation will be retried. The machine will retry to power OFF up to 10 times at 1-minute intervals. If the machine does not power OFF, the power will remain ON for that day.

Restarting the Machine

864Y-023

When you make changes to the settings of the machine, you may have to restart the machine to apply the changes depending on the setting.
When you change the settings using either the operation panel or Remote UI, you can restart the machine using the power switch or Remote UI.
Restarting the machine deletes any data waiting to be printed.

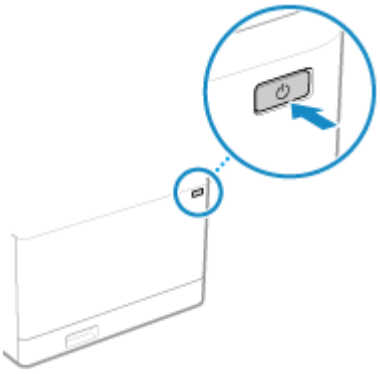
Restarting the Machine Using the Power Switch(P. 90)
Restarting the Machine Using Remote UI(P. 90)

NOTE

- The received data saved in the memory remains stored without being deleted even if the machine is restarted.

Restarting the Machine Using the Power Switch

1 Press the power switch.



➡ The operation panel turns off, and the power turns OFF.
It may take a few minutes until the power turns OFF.

2 Wait at least 10 seconds after turning OFF the power before pressing the power switch.

➡ The machine starts up.

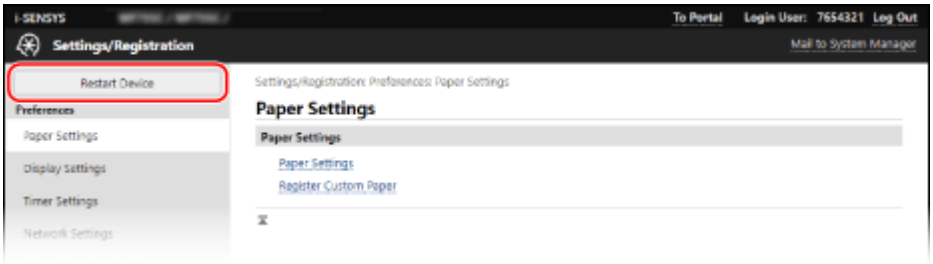
Restarting the Machine Using Remote UI

Administrator privileges are required to restart the machine using Remote UI.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Restart Device].



➠ The [Restart Device] screen is displayed.

4 In [Device Status], check that there are no functions operating, and then click [Execute].

➠ A restart confirmation message appears.

5 Click [OK].

➠ A screen indicating that the machine is being restarted is displayed, and then the machine is restarted. When the machine is restarted, Remote UI is disconnected.

Reducing Power Consumption (Sleep Mode)

864Y-024

Sleep mode reduces power consumption by pausing certain operations inside the machine.
On the operation panel, press [ ] to enter sleep mode. **Operation Panel(P. 17)**
When the machine is in sleep mode, lights yellow-green.

■ Exiting Sleep Mode

Perform any of the following operations:

- Press any key on the operation panel.
- Tap the display.

■ Configuring Auto Sleep Time

Auto Sleep Time automatically places the machine into sleep mode if no operations are performed after a certain period of time or at a specified time. In addition to being able to set the time when the machine enters sleep mode, you can also configure the machine to exit sleep mode at a specified time.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. **[Timer/Energy Settings](P. 306)**

1 Log in to Remote UI. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Timer Settings] ▶ [Edit].

➠ The [Edit Timer Settings] screen is displayed.

4 Set Auto Sleep Time or the time to exit sleep mode.

■When Setting the Time until Sleep Mode

Enter the time in [Set Time].

* It is recommended to use the default setting to efficiently save power. **[Auto Sleep Time](P. 308)**

■When Entering Sleep Mode at a Specified Time

Select the [Use Auto Sleep Daily Timer] checkbox, and enter a time.
If you selected 12-hour format for the time display, select [AM] or [PM] after entering the time.

■When Exiting Sleep Mode at a Specified Time

Select the [Use Sleep Mode Exit Time Settings] checkbox, and enter a time.
If you selected 12-hour format for the time display, select [AM] or [PM] after entering the time.

5 Click [OK].

➡ The settings are applied.

6 Log out from Remote UI.

IMPORTANT

Press  if the machine will not be used for a long period of time, such as overnight

- Put the machine into sleep mode as a safety precaution.

NOTE

- The machine does not enter sleep mode in the following cases:
  - When the data indicator on the operation panel is lit or blinking **Operation Panel(P. 17)**
  - When the [Menu] screen, a paper jam or other error message[*1], or Direct Connection SSID or network key display screen is displayed on the operation panel
  - When the machine is performing an adjustment, cleaning, or other operation
  - When the machine is importing, exporting, or processing data via an external device, such as a USB memory device or computer

  [*1] The machine may enter sleep mode depending on the message.
- If the machine is not allowed to enter sleep mode, it may perform auto calibration to maintain the image quality. Performing calibration uses the toner cartridge, which may affect its lifetime.

Using the Operation Panel

864Y-025

Use the operation panel to change the settings of the machine and use the functions such as Memory Media Print and Secure Print.

Main Instructions
Check how to use the buttons and items displayed on the operation panel, how to enter text, and how to display the various screens.
Screens Displayed on the Operation Panel(P. 95)
How to Operate the Operation Panel(P. 101)
Entering Characters(P. 104)

Making the [Home] Screen Easier to Use
You can add shortcut buttons for frequently used functions and rearrange the buttons.
Customizing the [Home] Screen(P. 106)

IMPORTANT

Regarding the Handling of the Touch Panel Display

- Do not press the touch panel display too hard. Doing so may break the touch panel display.
- Do not use an object with a sharp end, such as a mechanical pencil or ballpoint pen. Doing so may scratch the surface of the touch panel display or break it.
- Placing objects on the display or wiping the display may cause the touch panel to react and lead to a malfunction.

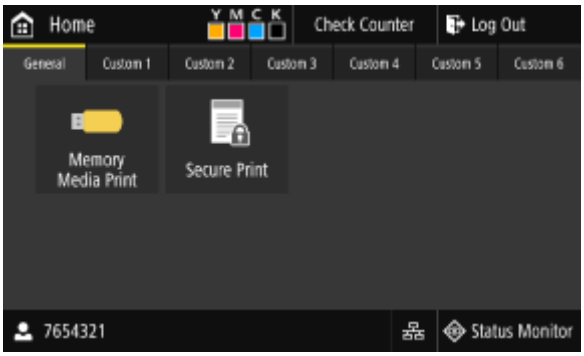
Screens Displayed on the Operation Panel

864Y-026

The following are the main screens of the operation panel.

[Home] Screen

This screen is displayed when you press [ ] on the operation panel. By default, the [Home] screen is displayed after the power is turned ON and immediately after the startup screen closes, and immediately after logging in.
[Home] Screen(P. 97)



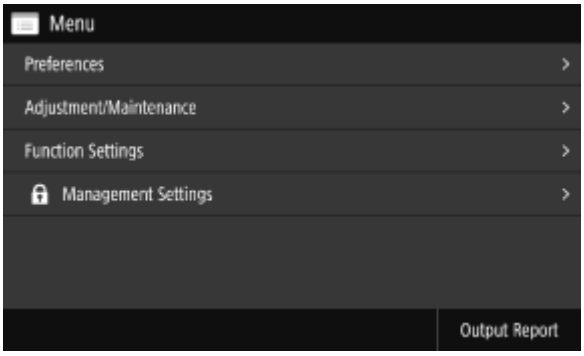
[Status Monitor] Screen

This screen is displayed when you press [Status Monitor] on the [Home] screen and other locations. Use this screen to check the information of the machine, usage and logs, network settings, and error information.
[Status Monitor] Screen(P. 99)



[Menu] Screen

This screen is displayed when you press [Menu] on the [Home] screen. Use this screen to configure the various settings of the machine.
When the System Manager ID is set, the login screen may be displayed when certain items are selected. Only users who know the System Manager ID and PIN can log in and change the settings.



Message Display

Messages are displayed on the screen when errors occur and the machine is out of paper or toner in the toner cartridges.
If a troubleshooting solution is displayed, follow the on-screen instructions to solve the problem.
If a troubleshooting solution is not displayed, check the cause and solution by referring to the message or error code.
A Message Appears(P. 487)
An Error Code Is Displayed(P. 502)

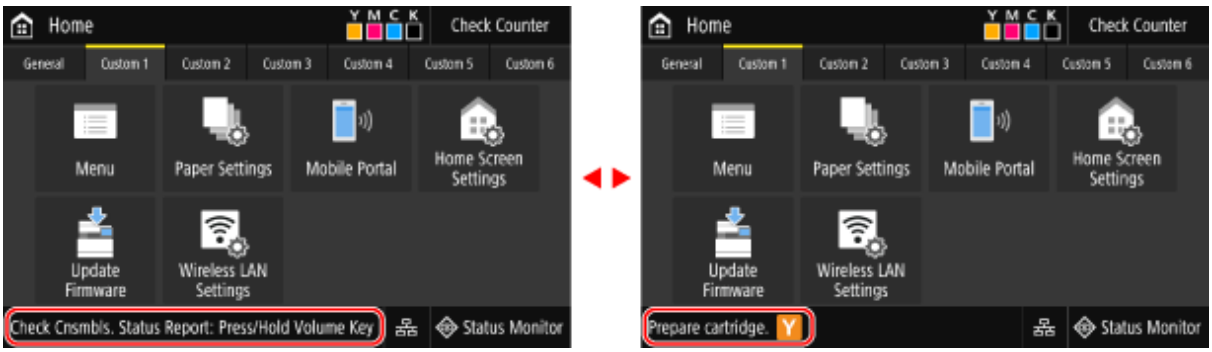
Display example:

- **When an Error Occurs**



- **When a Message Appears at the Bottom of the Screen**

  If the message is too long to display at once, it may be separated into smaller segments and displayed alternately.



NOTE

Changing the Screen Display

- You can change the operation panel display such as by changing the display language and units, and show or hide messages. **[Display Settings](P. 302)**
- You can invert screen colors and adjust the brightness to make the screen easier to view. **[Accessibility](P. 325)**

Clearing the Settings Automatically

- By default, if no operations are performed after a certain period of time, the settings being configured on the screen are cleared, and the [Home] screen is displayed. You can change the time until the settings are cleared and the screen that is displayed after.
  [Auto Reset Time](P. 307)
  [Function After Auto Reset](P. 307)

[Home] Screen

864Y-027

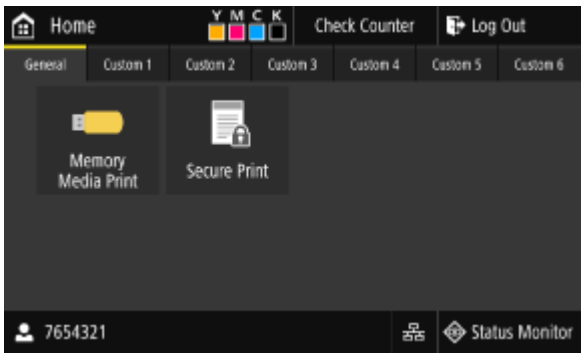
This screen is displayed when you press [] on the operation panel.

The status of the machine and the login information are constantly displayed at the top and bottom of the screen for quick viewing and operations, as needed.

The function and setting buttons are displayed on separate tabs in the middle of the screen. Select a tab or flick the screen left or right to change the displayed function and setting buttons. Press these buttons to perform functions and change settings.

You can rearrange the buttons and change the tab names. **Rearranging the Buttons and Renaming the Tabs (Remote UI)(P. 107)**

* By default, the [General] to [Custom 6] tabs are displayed.



■Status of the Machine and Login Information

[]

Displays the remaining amount of toner in the toner cartridges.

[Check Counter]

You can check the total number of pages printed in color and black and white. **Checking the Number of Printed Pages (Check Counter)(P. 285)**

[Log Out]

This is displayed when the user is logged in. Press this to log out after completing operations on the machine. **Logging In to the Machine(P. 110)**

[]

Displays the logged in user name or Department ID.

[] / []

When connected to a wired LAN, [] is displayed. When connected to a wireless LAN, [] is displayed.

Press this icon to switch between using a wired LAN or wireless LAN to connect the machine to the network. **Selecting Wired or Wireless LAN(P. 48)**

[Status Monitor]

You can check the information of the machine, usage and logs, network settings, and error information. **[Status Monitor] Screen(P. 99)**

■Function and Setting Buttons

[Memory Media Print]

Prints files from a USB memory device. **Printing from a USB Memory Device (Memory Media Print)(P. 174)**



[Secure Print]
Prints data temporarily saved in the memory of the machine. **Printing a Document Secured with a PIN (Secure Print)(P. 168)**



[Menu]
Configure the various settings of the machine. **Settings Menu Items(P. 299)**



[Paper Settings]
Set the paper size and type to use, and register frequently used paper. **Specifying the Paper Size and Type(P. 124)**



[Mobile Portal]
Connect mobile devices to the machine. **Connecting a Mobile Device to the Machine(P. 197)**



[Home Screen Settings]
Add shortcut buttons to the [Home] screen and rearrange the buttons. **Customizing the [Home] Screen(P. 106)**



[Update Firmware]
Updates the firmware via the Internet. **Updating the Firmware(P. 292)**



[Wireless LAN Settings]
Connects a computer to the machine via a wireless LAN router (access point). **Connecting to a Wireless LAN by Searching for a Router (Access Point Setup Method)(P. 56)**



[uniFLOW Online Setup]
Installs applications for uniFLOW Online and uniFLOW Online Express.
For details about uniFLOW Online and uniFLOW Online Express, see the Canon website.
https://global.canon/



[Monitoring Service]
Perform operations related to the Monitoring Service. To use this service, the machine must be connected to a server providing the service.

In addition to the above function and setting buttons, this screen also displays Application Library buttons.
Application Library enables you to perform operations with one touch.
To use this function, you must click [Application Library] on the Portal Page of Remote UI, and configure the application. **Portal Page of Remote UI(P. 280)**
For more information, see the manual of the Application Library at the online manual site.
https://oip.manual.canon/

[Status Monitor] Screen

864Y-028

Use this screen to check the information of the machine, usage and logs, network settings, and error information. You can also use this screen to remove USB memory devices from the machine.

This screen is displayed when you press [Status Monitor] on the [Home] screen and other locations.



[Error Information/Notification]
You can check the information of errors that occur on the machine. Take troubleshooting measures according to the error details.
A Message Appears(P. 487)
An Error Code Is Displayed(P. 502)

[Device Information]

[Paper Information]
Check the remaining amount of paper for each paper source.

[Cartridge Information]
Check the remaining amount of toner in the toner cartridges.
Other internal parts may reach the end of their lifetime before the toner runs out.

[Secure Print Memory Usage]
Check to see how much memory is used by the Secure Print data temporarily saved to the memory of the machine.

[Version Information]
Displays the firmware version information of the machine.

[Serial Number]
Displays the serial number of the machine.

[Print Job]
Displays the copy or print processing status and log. **Viewing the Print Job Status and Log(P. 187)**

[RX Job]
Displays the status and log of received I-Faxes.

[Network Information]

[IPv4]
Check the IPv4 address and other settings. **Setting IPv4 Addresses(P. 61)**

[IPv6]
Check the IPv6 address and other settings. **Setting IPv6 Addresses(P. 63)**

[Network Connection Type]
Check whether the machine has a wired or wireless connection.

Displays the connection status and error information when connected by wireless LAN.

[Direct Connection Information]
Displays the connection status when directly connected to a device.

[IEEE 802.1X Error Information]
Displays the details of errors that occur with IEEE 802.1X authentication.

[Rmv. Mem. Media]
Displayed when a USB memory device is connected. Press to remove the USB memory device. **Removing the USB Memory Device(P. 136)**

[IP Address]
Displays the IPv4 address of the machine by default. You can also hide this. **[Display IP Address](P. 305)**

How to Operate the Operation Panel

864Y-029

The operation panel uses a touchscreen. Directly touch your finger to the buttons and items displayed on the screen to operate them.

Basic Touchscreen Operations (Tapping, Flicking, and Dragging)(P. 101)
Selecting Tabs and Items(P. 102)
Scrolling the Screen(P. 102)
Set the value using the [+] and [-] buttons or the slider.(P. 103)

IMPORTANT

To prevent accidental operations or damage to the operation panel, avoid the following:

- Pressing too hard with your fingers
- Pressing with a sharp tip, such as a fingernail, ballpoint pen, or pencil
- Operating with wet or dirty hands
- Operating with an object on the display

Basic Touchscreen Operations (Tapping, Flicking, and Dragging)

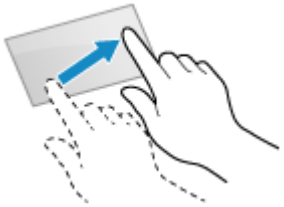
Tapping
Gently touch the screen with your fingertip and quickly release. Do this when selecting items and performing operations.
In the User's Guide, "press" and "select" refer to the tapping operation.



Flicking
Touch the screen and flick your fingertip. The screen moves in the direction you flicked your finger. For example, the [Home] screen moves to the tab in the direction you flicked your finger.

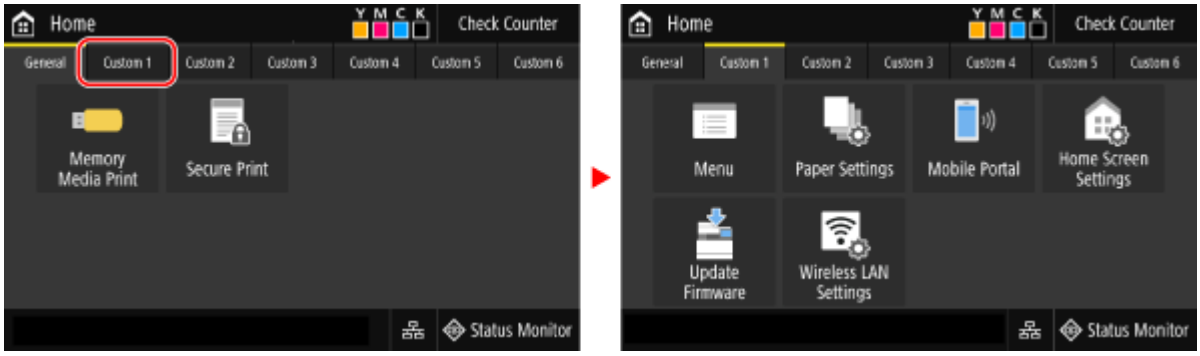


Dragging
Move your fingertip while touching the screen, and release it at the desired position. You can scroll lists and move the area you are touching to a desired position.

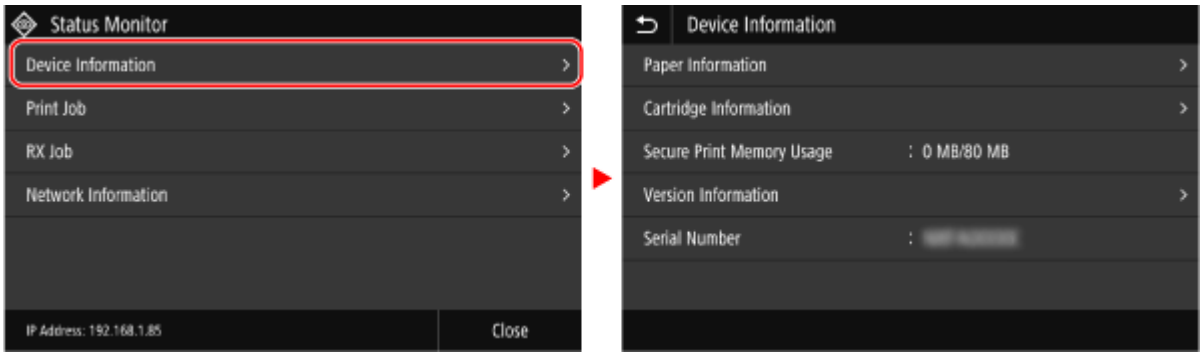


Selecting Tabs and Items

When you tap a tab, the screen for the selected tab is displayed.



When you tap an item name or button, the item can be selected. The selected screen is displayed, or the selected function is performed.



To Cancel a Selection

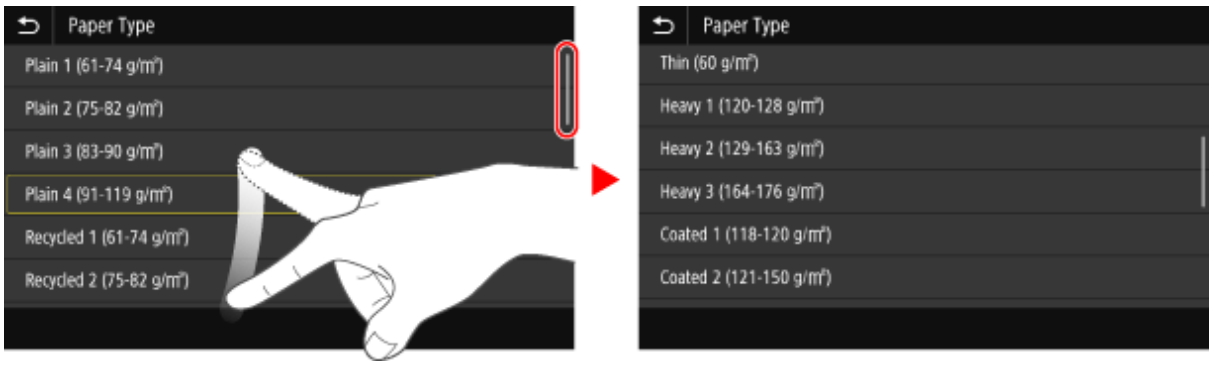
Drag your fingertip touching the screen away from the selected item or button and release it.

To Return to the Previous Screen

Tap [ ].

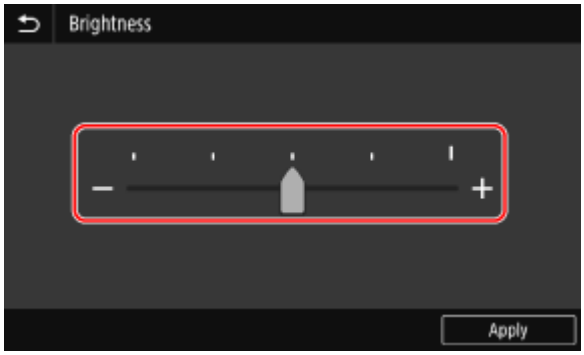
Scrolling the Screen

When the scroll bar appears on the screen, it indicates that there are items or information that cannot be completely displayed on the screen. Flick or drag to scroll the screen in the direction you moved your fingertip.
Release your finger from the screen, and in a few seconds, the scroll bar will disappear. Touch the screen to display the scroll bar again.



Set the value using the [+] and [-] buttons or the slider.

Tap the [+] and [-] buttons to adjust the value. When the slider is displayed as shown below, you can drag it to the left or right to adjust the value.



Entering Characters

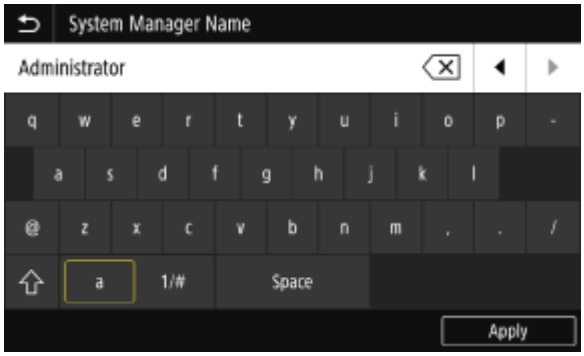
864Y-02A

Enter alphanumeric characters using the keyboard and numeric keys on the operation panel.
You can also enter characters using a commercial USB keyboard connected to the machine.

Entering Characters Using the Operation Panel(P. 104)
Entering Characters Using a USB Keyboard(P. 105)

Entering Characters Using the Operation Panel

You can enter letters, numbers, and symbols using the operation panel.
The type of characters that you can enter may be limited depending on the item.
If the value input range is limited, the value that you can enter is displayed in parentheses ( ) next to the input field.



Changing the Character Type

Select [a] or [1/#] for the type of character to enter.
You cannot change the character type for items whose character type is limited.

Entering Characters and Spaces

Tap the character or symbol to enter.
Press [ ] or [ ] to show characters that are not visible on the screen.

To enter uppercase characters, tap [ ].

To enter a space, tap [Space]. You can also enter a space by moving the cursor to the end of the characters and tapping [ ].

Deleting Characters

Tap [ ] to delete one character.

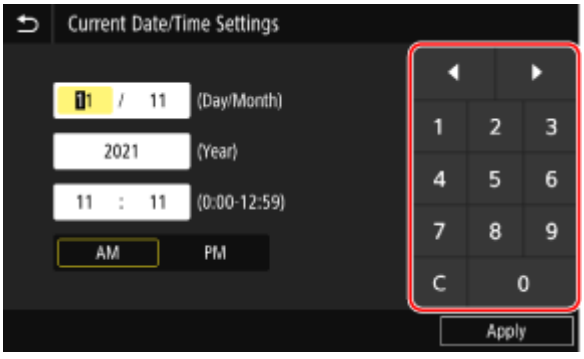
Tap and hold [ ] to continuously delete characters.

Moving the Cursor

Tap [ ] or [ ].

Entering Numbers Using the Numeric Keys

The numeric keys appear for items that only allow numbers.



Tap the numbers on the numeric keys to enter a value.

To delete a number, tap [C].
When [◀] and [▶] are displayed, you can tap these to move the cursor.

NOTE

- When [+] and [-] or a slider appears instead of the keyboard or numeric keys, tap or drag these to set the value. **Set the value using the [+] and [-] buttons or the slider.(P. 103)**

Entering Characters Using a USB Keyboard

You can enter characters in the same way as a computer by connecting a commercial USB keyboard to the USB port on the front or back of the machine. **Front Side(P. 13)** / **Rear Side(P. 15)**
* You can still enter characters using the operation panel when a USB keyboard is connected to the machine.

The connected USB keyboard can be disconnected from the machine at anytime. You do not need to cancel the connection first.

IMPORTANT

- [Backspace], [Home], [End], and other keys may not be usable. Pressing an unusable key does not enter a character.
- Depending on the display language, some characters may not be entered correctly.
- Depending on the type of USB keyboard, it may not operate properly.

NOTE

- You can specify the USB keyboard layout (US layout or UK layout). **[English Keyboard Layout](P. 300)**

Customizing the [Home] Screen

864Y-02C

You can quickly select frequently used functions from the [Home] screen of the operation panel.
You can rearrange the buttons on the [Home] screen and move buttons to other tabs.

This section describes how to change the display order using the operation panel.
You can also change the display order using Remote UI from a computer. You can also rename tabs using Remote UI.
Rearranging the Buttons and Renaming the Tabs (Remote UI)(P. 107)
Administrator privileges are required.

1 Press and hold any button on the [Home] screen. [Home] Screen(P. 97)

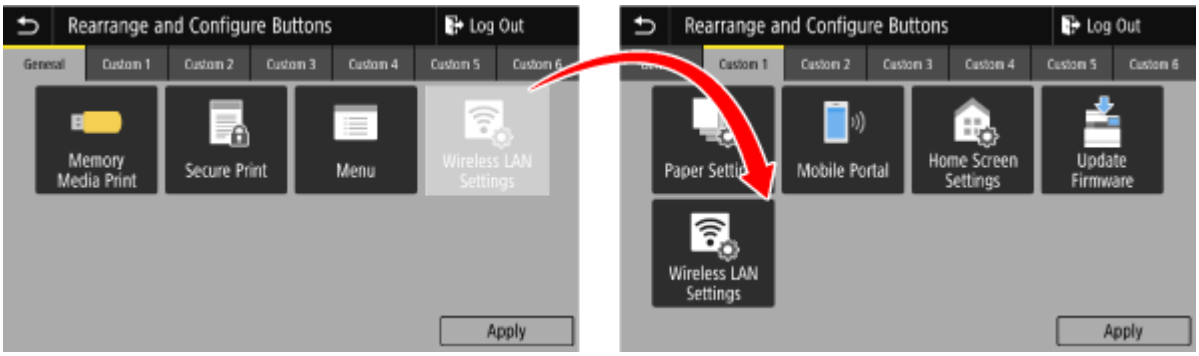
If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

2 Check the message, and press [Yes].

➠ The [Rearrange and Configure Buttons] screen is displayed.

3 Drag the button you want to rearrange, and release it at the desired location.

When you drag a button to another tab, the button moves to that tab. You cannot move a button to a tab when the maximum number of buttons for that tab has been reached.



4 Press [Apply].

➠ The location of the buttons on the [Home] screen is changed.

Rearranging the Buttons and Renaming the Tabs (Remote UI)

864Y-02E

You can use Remote UI from a computer to reorder the buttons on the [Home] screen and rename the tabs.

Changing the Button Display Order(P. 107)
Renaming the Tabs(P. 108)

Changing the Button Display Order

Administrator privileges are required.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Display Settings].

➠ The [Display Settings] screen is displayed.

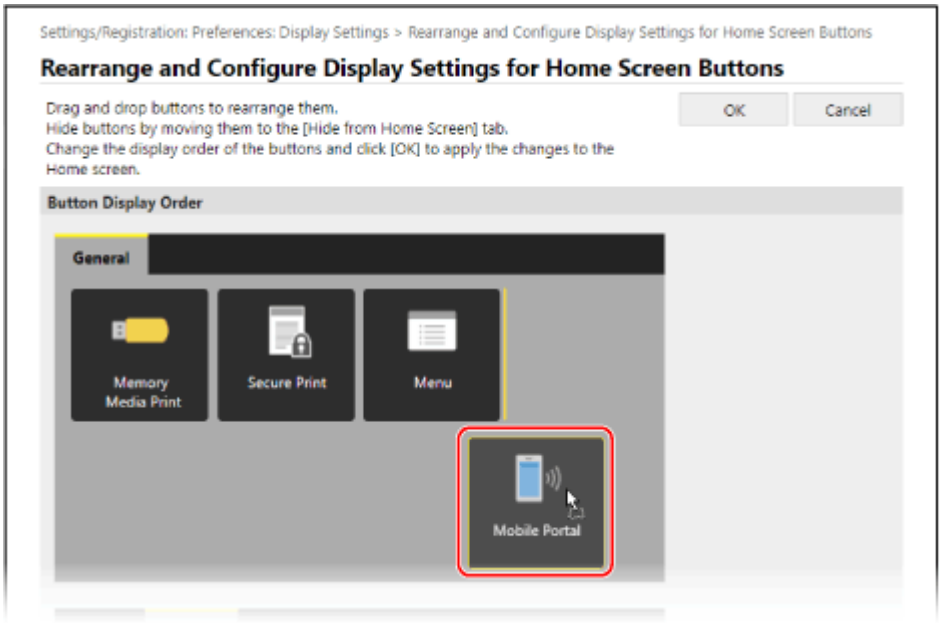
4 In [Rearrange and Configure Display Settings for Home Screen Buttons], select [Edit in Button View] or [Edit in List View].

- To change the display order by dragging the buttons, click [Edit in Button View].
- To change the display order using the list of button names, click [Edit in List View].

5 Rearrange the buttons.

■When Rearranging the Buttons by Dragging Them

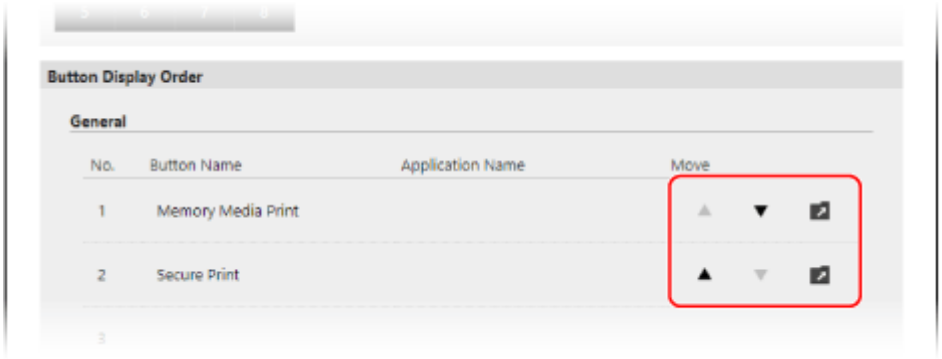
Drag the button you want to rearrange, and release it at the desired location.



■When Rearranging the Buttons Using the List of Button Names

Click [▲] or [▼] next to the name of the button you want to rearrange to move the button up or down.

Click [ ] to move a button to another tab.



6 Click [OK].

➠ The settings are applied.

7 Log out from Remote UI.

Renaming the Tabs

Rename the tabs using Remote UI from a computer. You cannot use the operation panel to rename the tabs. Administrator privileges are required.

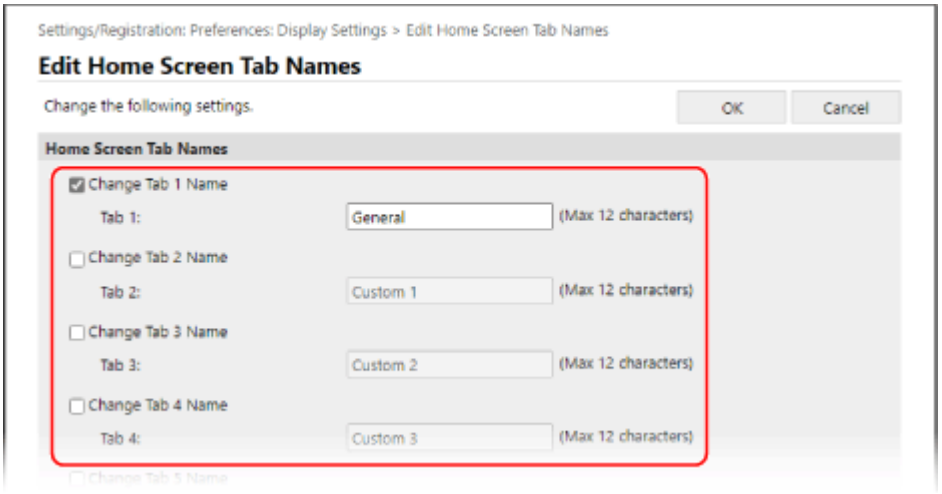
1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Display Settings] ▶ [Edit] in [Home Screen Tab Names].

➠ The [Edit Home Screen Tab Names] screen is displayed.

4 Select the checkbox of the tab you want to rename, and enter the name.



5 Click [OK].

➠ The settings are applied.

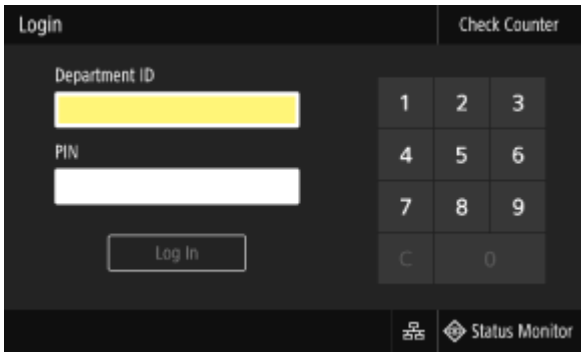
6 Log out from Remote UI.

Logging In to the Machine

864Y-02F

When the login screen is displayed on the operation panel, enter the required login information to perform authentication. When authentication is successful, the screen changes, and you can continue operations. Depending on the set authentication function, the displayed login screen varies.

When Department ID Management is set up, the following login screen is displayed. Enter the Department ID to log in. If a PIN is set, enter the PIN.
When the System Manager ID is set, the login screen is displayed for operations that require administrator privileges. Enter the System Manager ID and PIN to log in.



1 **Enter the Department ID or System Manager ID.**

2 **Enter the PIN.**

If a PIN is not set, you can skip this step. Proceed to Step 3.

3 **Press [Log In].**

➠ When authentication is successful, the [Home] screen or other screen is displayed.

4 **When you have completed your operations, press [Log Out].**

Loading Paper

864Y-02H

To ensure print quality, confirm the usable paper and how to handle and store paper, and prepare the appropriate paper for use with the machine. **Usable Paper(P. 21)** / **Precautions When Handling Paper(P. 25)**

Load the prepared paper in the machine, and then configure the paper size and type settings.

Loading Paper in the Machine

Load paper you usually use into the paper drawer, which can hold large amounts of paper.
To temporarily use paper not loaded in the paper drawer, load it in the multi-purpose tray.
Loading Paper in the Paper Drawer(P. 112)
Loading Paper in the Multi-purpose Tray(P. 117)

When using envelopes or paper with logos, be careful of the orientation of the loaded paper and which side is face up.
Preparations and Orientation for Loading Envelopes(P. 120)
Orientation for Loading Paper with a Logo(P. 122)

Paper Settings

To ensure quality printing and prevent paper jams, the paper size and type must be set correctly according to the loaded paper.
Specifying the Paper Size and Type(P. 124)

Loading Paper in the Paper Drawer

864Y-02J

Load paper you usually use into the paper drawer, which can hold large amounts of paper.
The setting method varies depending on the size of the paper to be loaded.

When Loading A4, B5, Legal, or Letter Size Paper
Load paper using the standard size method.
Loading Standard Size Paper(P. 112)

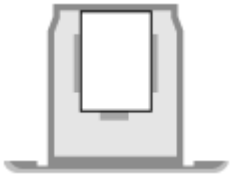
When Loading A5 Size Paper
The setting method varies depending on the orientation of the paper to be loaded.

Landscape orientation (A5)



Loading Non-standard Size Paper(P. 114)

Portrait orientation (A5R)



Loading Standard Size Paper(P. 112)

When Loading Custom Size Paper
Load paper using the non-standard size method.
Loading Non-standard Size Paper(P. 114)

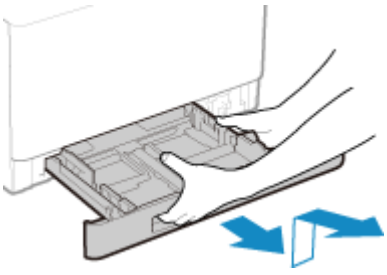
NOTE

- Load paper using the same procedure even when using the optional Paper Feeder PF-K.

Loading Standard Size Paper

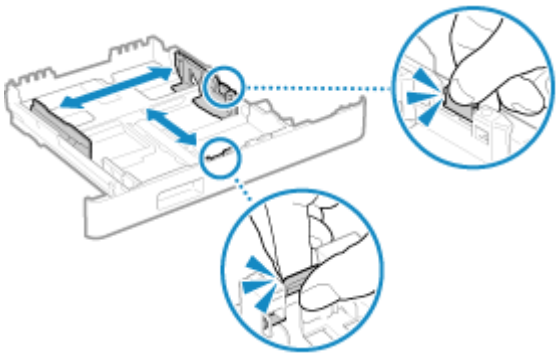
You can load paper correctly by aligning the paper guides on the paper drawer with the markings.
When using paper with logos, be careful of the orientation of the loaded paper and which side is face up.
Orientation for Loading Paper with a Logo(P. 122)

1 Pull out the paper drawer, and remove it while lifting the front side.

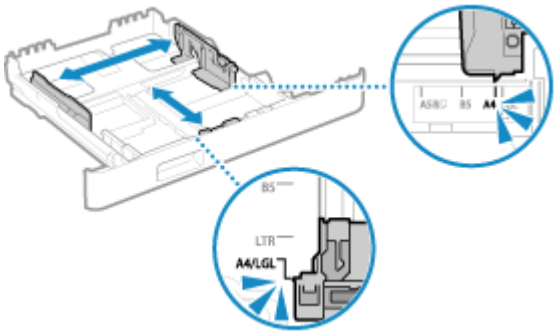


2 Align the paper guides with the size of the paper to be loaded.

1 While pressing the lock release lever, move the paper guide.



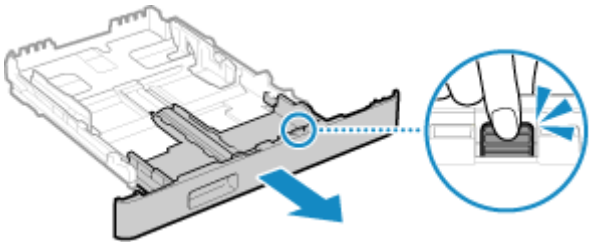
2 Align the projections on the paper guides with the size markings of the paper to be loaded.



Paper guides that are aligned but too loose or too tight can cause misfeeds or a paper jam.

■When Loading Legal Size Paper

While pressing the lock release lever, extend the paper drawer toward you.

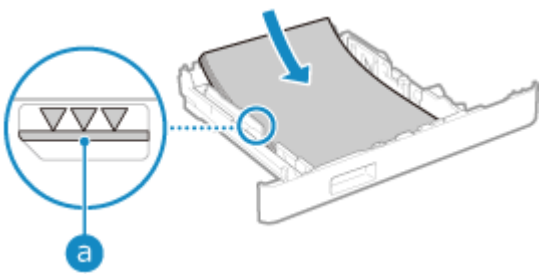


3 Fan the paper and align the edges.



Fan the paper in small batches, and align the edges by tapping the paper on a flat surface a few times.

4 Load the paper with the print side face up.



- Align the paper with the paper guide on the front side of the paper drawer.

- Make sure the loaded paper does not exceed the load limit line (a). If it exceeds the load limit line, there may be misfeeds or a paper jam.

■When Printing on the Back Side of Printed Paper (Manual 2-sided Printing)

Flatten the edge of the paper to remove any curls, and load the paper with the back (unprinted) side face up.

- You can use only paper printed with this machine.
- You cannot print on a side that has been previously printed on.
- If the printouts look faded, adjust the image quality. **[Manual Back Side Print (2-Sided Only)](P. 331)**

5 Load the paper drawer into the machine.

➡ By default, the Paper Settings confirmation screen is displayed. **[Notify to Check Paper Settings](P. 390)**

When you are using legal size paper, the paper drawer is extended from the machine and is not fully housed.

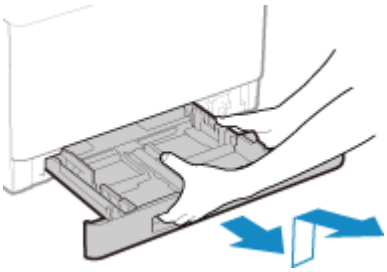
6 Set the paper size and type, as needed. Setting the Paper Size and Type for the Paper Drawer(P. 125)

By default, the paper size and type of the paper drawer are set to A4 and Plain 2. When paper of a different size or type is loaded, change the paper settings.

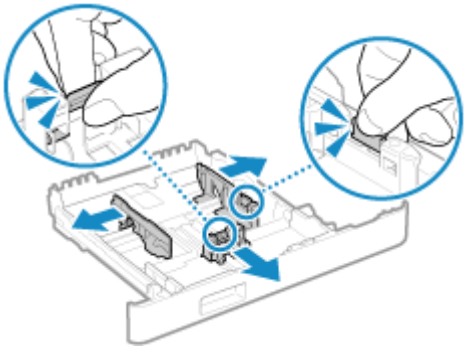
Loading Non-standard Size Paper

You can load paper correctly by aligning the paper guides on the paper drawer with the paper.
When using envelopes or paper with logos, be careful of the orientation of the loaded paper and which side is face up.
Preparations and Orientation for Loading Envelopes(P. 120)
Orientation for Loading Paper with a Logo(P. 122)

1 Pull out the paper drawer, and remove it while lifting the front side.



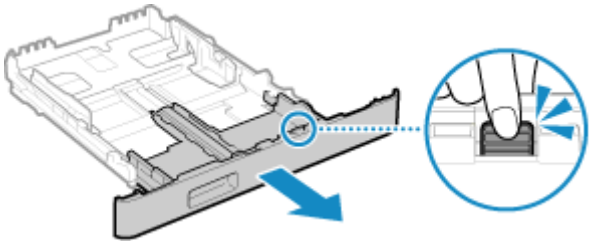
2 Slide the paper guides to the outside.



While pressing the lock release lever, move the paper guides.

■When Loading Paper Longer than A4 Size

While pressing the lock release lever, extend the paper drawer toward you.

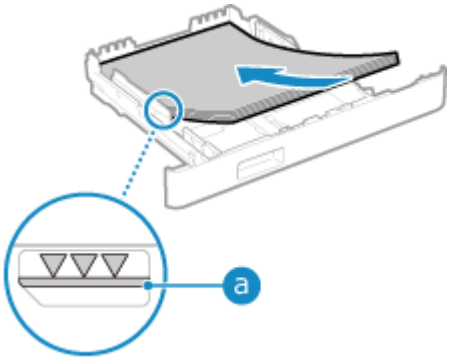


3 Fan the paper and align the edges.



Fan the paper in small batches, and align the edges by tapping the paper on a flat surface a few times.

4 Load the paper with the print side face up.



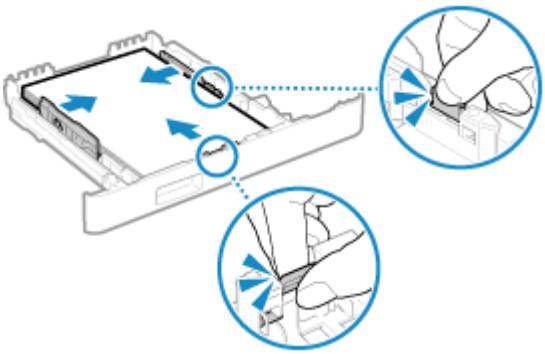
- Load the paper against the rear edge of the paper drawer.
- Make sure the loaded paper does not exceed the load limit line (a). If it exceeds the load limit line, there may be misfeeds or a paper jam.

■When Printing on the Back Side of Printed Paper (Manual 2-sided Printing)

Flatten the edge of the paper to remove any curls, and load the paper with the back (unprinted) side face up.

- You can use only paper printed with this machine.
- You cannot print on a side that has been previously printed on.
- If the printouts look faded, adjust the image quality. **[Manual Back Side Print (2-Sided Only)](P. 331)**

5 Align the paper guides with the width and length of the paper.



- While pressing the lock release lever, align the paper guides with the width and length of the paper.
- Paper guides that are aligned but too loose or too tight can cause misfeeds or a paper jam.

6 Load the paper drawer into the machine.

➡ By default, the Paper Settings confirmation screen is displayed. **[Notify to Check Paper Settings] (P. 390)**

When you are using paper that is longer than A4 size, the paper drawer is extended from the machine and is not fully housed.

7 Set the paper size and type. **Setting the Paper Size and Type for the Paper Drawer(P. 125)**

By default, the paper size and type of the paper drawer are set to A4 and Plain 2. When paper of a different size or type is loaded, change the paper settings.

Loading Paper in the Multi-purpose Tray

864Y-02K

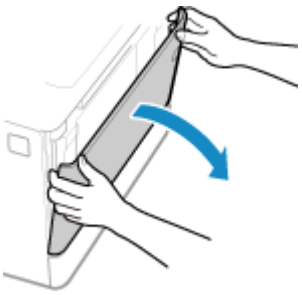
To temporarily use paper not loaded in the paper drawer, load it in the multi-purpose tray.
You can load paper correctly by aligning the paper guides on the multi-purpose tray with the paper.
When using envelopes or paper with logos, be careful of the orientation of the loaded paper and which side is face up.
Preparations and Orientation for Loading Envelopes(P. 120)
Orientation for Loading Paper with a Logo(P. 122)

IMPORTANT

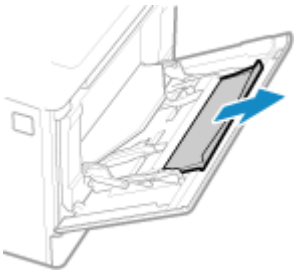
Do Not Remove the Paper Drawer

- If the paper drawer is removed, the machine cannot print even when paper is loaded in the multi-purpose tray. If you try to print with the paper drawer removed, an error message appears.

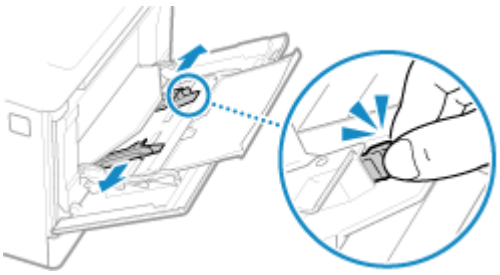
1 Open the cover while holding both sides.



2 Pull out the paper tray.



3 Spread the paper guides apart.



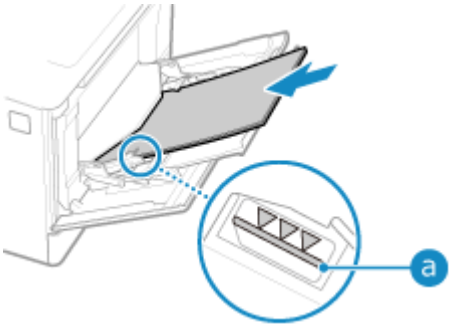
While pressing the lock release lever, move the paper guides.

4 Fan the paper and align the edges.



Fan the paper in small batches, and align the edges by tapping the paper on a flat surface a few times.

5 Load the paper with the print side face up.



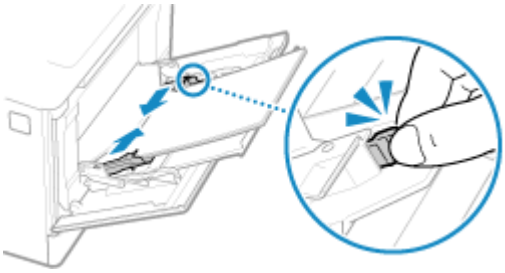
- Insert the paper until the edge of the paper is against the paper tray.
- Make sure the loaded paper does not exceed the load limit line (a). If it exceeds the load limit line, there may be misfeeds or a paper jam.

■When Printing on the Back Side of Printed Paper (Manual 2-sided Printing)

Flatten the edge of the paper to remove any curls, and load the paper with the back (unprinted) side face up.

- You can use only paper printed with this machine.
- You cannot print on a side that has been previously printed on.
- You cannot load more than one sheet of paper. Load each sheet separately to print.
- If the printouts look faded, adjust the image quality. **[Manual Back Side Print (2-Sided Only)](P. 331)**

6 Align the paper guides with the width of the paper.



- While pressing the lock release lever, align the paper guides with the width of the paper.
- Paper guides that are aligned but too loose or too tight can cause misfeeds or a paper jam.

7 Set the paper size and type. Setting the Paper Size and Type for the Multi-purpose Tray(P. 127)

By default, when the machine detects paper loaded in the multi-purpose tray, the screen for setting the paper size and type is displayed on the operation panel. Set the paper size and type each time you load paper.

NOTE

When Loading A5 Size Paper

- Set the paper size according to the orientation of the loaded paper.

Landscape orientation (A5)



Portrait orientation (A5R)



Preparations and Orientation for Loading Envelopes

864Y-02L

As envelopes have a different shape and thickness from regular paper, preparations must be made before loading envelopes.
Envelopes can be printed only on the front side (non-glued side). When loading envelopes, pay attention to the orientation and which side is face up.

Preparations before Loading Envelopes(P. 120)
Orientation of Envelopes (Paper Drawer)(P. 121)
Orientation of Envelopes (Multi-purpose Tray)(P. 121)

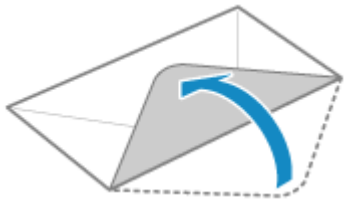
NOTE

- For the general procedure of loading envelopes, see the following:
  When loading in the paper drawer **Loading Non-standard Size Paper(P. 114)**
  When loading in the multi-purpose tray **Loading Paper in the Multi-purpose Tray(P. 117)**

Preparations before Loading Envelopes

Align the envelopes regardless of the number of envelopes to be loaded.

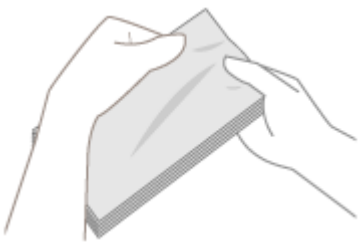
1 Close the flap of each envelope.



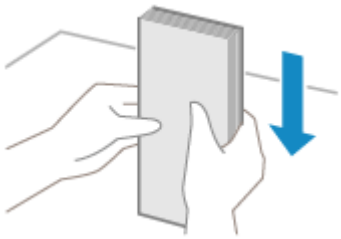
2 Flatten them to remove any air, and make sure the edges are pressed tightly.



3 Loosen any stiff corners of the envelopes, and flatten any curls.



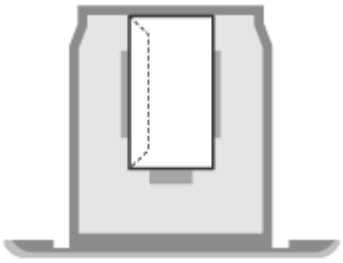
4 Align the edges of the envelopes on a flat surface.



➠ The envelopes are ready to be loaded.

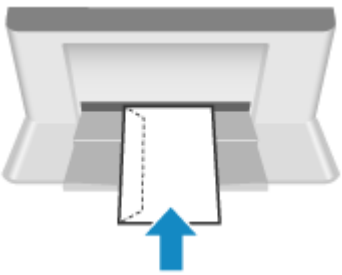
Orientation of Envelopes (Paper Drawer)

Load the envelopes No. 10 (COM10), Monarch, ISO-C5, or DL in portrait orientation with the front side (non-glued side) face up and the long side of the envelope parallel with the long side of the paper drawer. Load the envelope with the flap closed and on the left side.



Orientation of Envelopes (Multi-purpose Tray)

Insert the envelopes No. 10 (COM10), Monarch, ISO-C5, or DL from the short side with the front side (non-glued side) face up. Insert the envelope with the flap closed and on the left side.



Orientation for Loading Paper with a Logo

864Y-02R

When loading paper with a logo, pay attention to the orientation and which side is face up.
By default, the orientation the paper is to be loaded and the side to print on vary depending on whether you want to print on one or both sides.

Printing on One Side of Paper with a Logo(P. 122)
Printing on Both Sides of Paper with a Logo(P. 122)

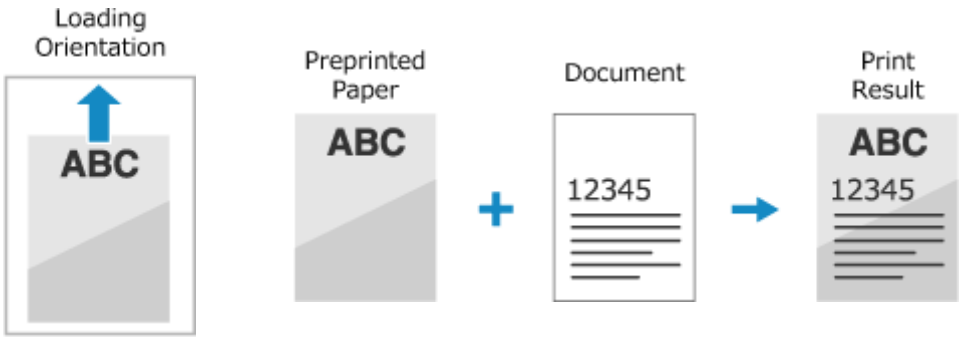
NOTE

- For the general procedure of loading paper, see the following:
  Loading Paper in the Paper Drawer(P. 112)
  Loading Paper in the Multi-purpose Tray(P. 117)
- You can configure the settings so that the orientation the paper is to be loaded and the side to print on do not change depending on whether you want to print on one or both sides. When this setting is configured, load the paper using the 2-sided printing method. **[Switch Paper Feed Method](P. 342)**

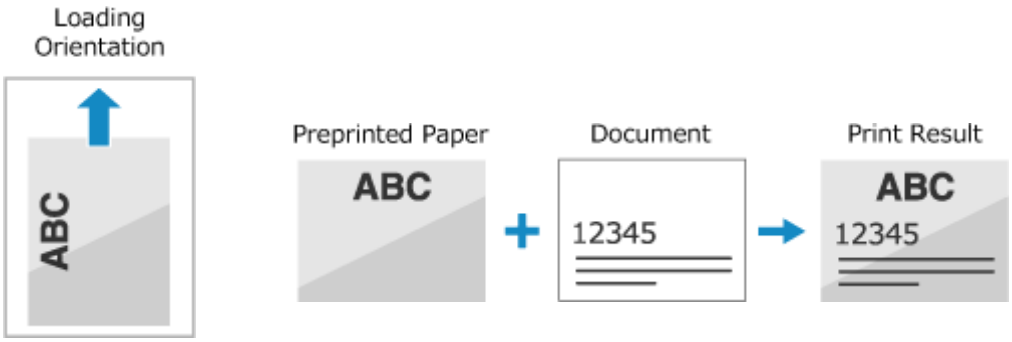
Printing on One Side of Paper with a Logo

Load the paper with the logo side (side to be printed) face up.

Paper with logo in portrait orientation



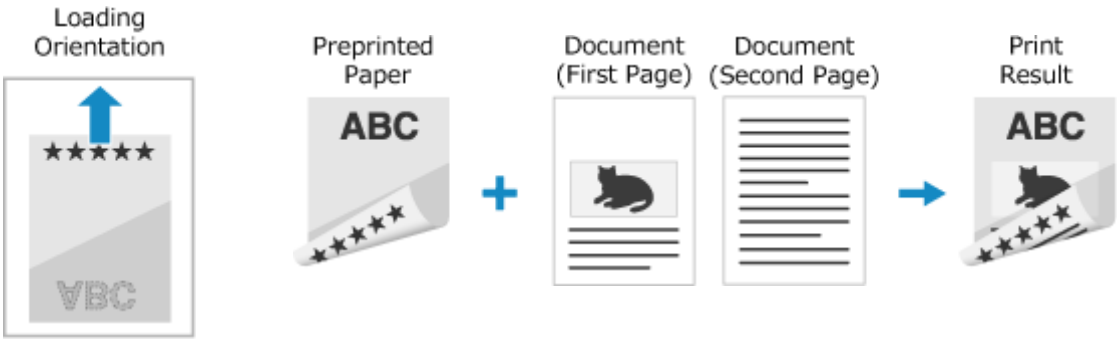
Paper with logo in landscape orientation



Printing on Both Sides of Paper with a Logo

Load the paper with the logo side (side to be printed first) face down.

Paper with logo in portrait orientation



Paper with logo in landscape orientation



Specifying the Paper Size and Type

864Y-02S

To ensure quality printing and prevent paper jams, the paper size and type must be set correctly according to the loaded paper.
You can register frequently used paper settings and hide unneeded paper settings to simplify the paper settings.

Settings Required after Loading the Paper

Set the paper size and type according to the loaded paper.

Setting the Paper Size and Type for the Paper Drawer(P. 125)
Setting the Paper Size and Type for the Multi-purpose Tray(P. 127)

If you always use the same paper in the multi-purpose tray, you can register the paper to use so you do not have to configure the settings each time.

Registering a Frequently Used Paper Size and Type for the Multi-purpose Tray(P. 129)

Simplifying the Paper Settings

You can register and set the paper size for easier settings.

Registering Non-standard Size Paper (Custom Paper)(P. 132)
Hiding Unused Paper Sizes(P. 133)

Using Appropriate Paper

You can configure the settings to automatically select the paper source with the appropriate paper when printing.

Using the Appropriate Paper Source for Each Function(P. 134)

Setting the Paper Size and Type for the Paper Drawer

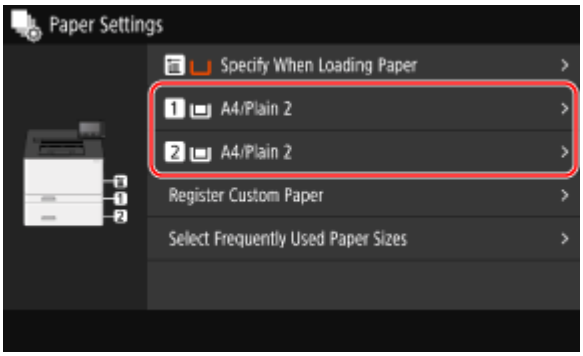
864Y-02U

By default, the paper size and type of the paper drawer are set to A4 and Plain 2. When paper of a different size or type is loaded, change the paper settings.

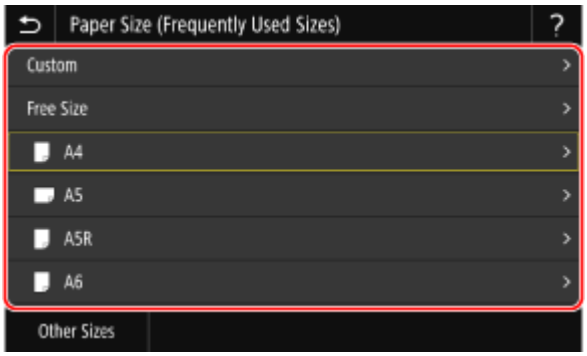
This section describes how to configure the settings using the operation panel.
You can also configure the settings using Remote UI from a computer. **Managing the Machine from a Computer (Remote UI)(P. 276)**

1 On the operation panel, press [Paper Settings] in the [Home] screen. [Home] Screen(P. 97)

2 Select the paper drawer whose setting you want to change.



3 Select the size of the paper loaded in the paper drawer.



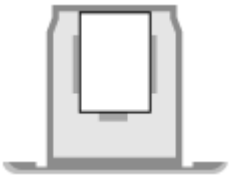
- You can scroll the screen to view paper sizes (such as envelopes) not displayed on the screen.
- If you frequently need to change the paper to be loaded, set to [Free Size]; this will reduce the number of steps required to change the setting each time. You can also display an error message when the setting in the printer driver is significantly different from the size of the loaded paper. **[Action When Free Paper Size Mismatch](P. 345)**

■When A5 Size Paper Is Loaded

When paper is loaded in the landscape orientation, select [A5]. When paper is loaded in the portrait orientation, select [A5R].

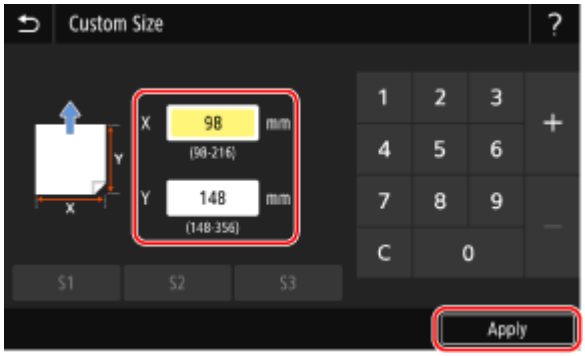
Landscape orientation (A5)　　Portrait orientation (A5R)





■When Non-standard Size (Custom Size) Paper Is Loaded

1. Press [Custom].
2. Enter the values in [X] and [Y], and press [Apply].

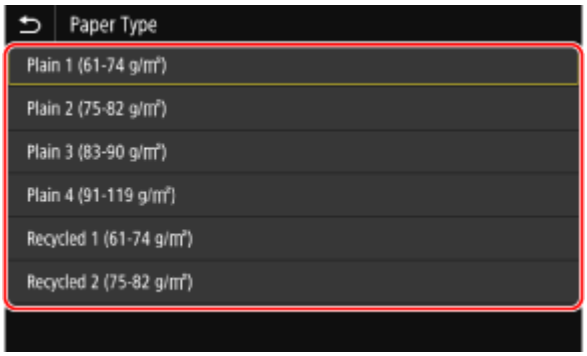


When frequently used non-standard sizes are registered, you can call these up by pressing [S1] to [S3].

■If a Set Paper Size Is Not Displayed

Press [Other Sizes], and select the paper size from the displayed list.

4 Select the type of the paper loaded in the paper drawer.



If you frequently need to change the paper to be loaded, set to [Free]; this will reduce the number of steps required to change the setting each time. However, note that this setting lets the machine perform printing even if there is mismatch between the paper type setting in the printer driver and the paper type actually loaded in the machine.
When the paper type setting in the printer driver is [Auto], the machine operates the same way as when the paper type is [Plain 1].

➠ The paper size and type are set.

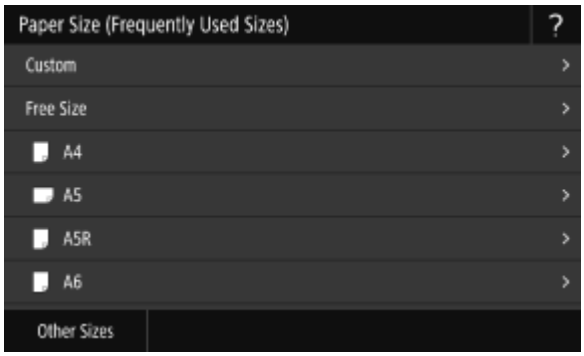
NOTE

- You can change the paper size displayed on the screen in Step 3. **Hiding Unused Paper Sizes(P. 133)**

Setting the Paper Size and Type for the Multi-purpose Tray

864Y-02W

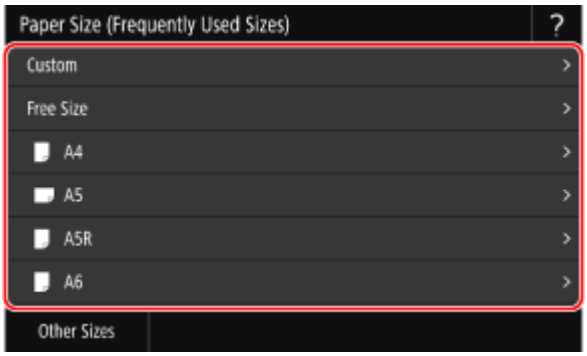
When paper is loaded in the multi-purpose tray, the following screen is displayed on the operation panel. Set the paper size and type according to the loaded paper.



* If the paper size and type of the multi-purpose tray have been registered in advance, the above screen is not displayed. **Registering a Frequently Used Paper Size and Type for the Multi-purpose Tray(P. 129)**

This section describes how to configure the settings using the operation panel.
You can also configure the settings using Remote UI from a computer. **Managing the Machine from a Computer (Remote UI)(P. 276)**

1 Select the size of the paper loaded in the multi-purpose tray.



- You can scroll the screen to view paper sizes (such as envelopes) not displayed on the screen.
- If you frequently need to change the paper to be loaded, set to [Free Size]; this will reduce the number of steps required to change the setting each time. You can also display an error message when the setting in the printer driver is significantly different from the size of the loaded paper. **[Action When Free Paper Size Mismatch](P. 345)**

■When A5 Size Paper Is Loaded

When paper is loaded in the landscape orientation, select [A5]. When paper is loaded in the portrait orientation, select [A5R].

Landscape orientation (A5)



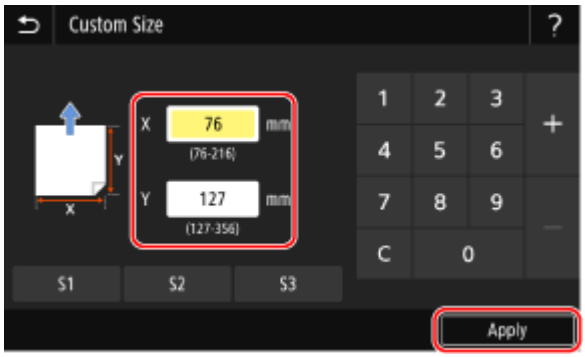
Portrait orientation (A5R)



■When Non-standard Size (Custom Size) Paper Is Loaded

1 Press [Custom].

2 Enter the values in [X] and [Y], and press [Apply].

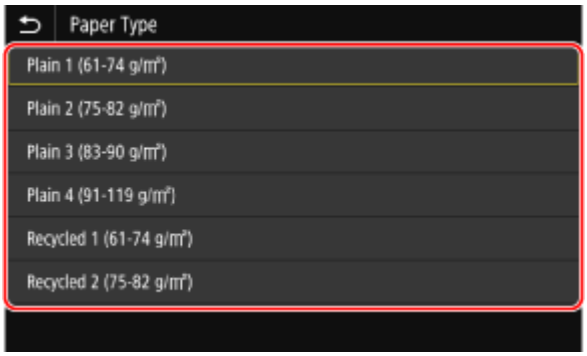


When frequently used non-standard sizes are registered, you can call these up by pressing [S1] to [S3].

■If a Set Paper Size Is Not Displayed

Press [Other Sizes], and select the paper size from the displayed list.

2 Select the type of paper loaded in the multi-purpose tray.



If you frequently need to change the paper to be loaded, set to [Free]; this will reduce the number of steps required to change the setting each time. However, note that this setting lets the machine perform printing even if there is mismatch between the paper type setting in the printer driver and the paper type actually loaded in the machine.
When the paper type setting in the printer driver is [Auto], the machine operates the same way as when the paper type is [Plain 1].

➠ The paper size and type are set.

NOTE

- You can change the paper size displayed on the screen in Step 1. **Hiding Unused Paper Sizes(P. 133)**

Registering a Frequently Used Paper Size and Type for the Multi-purpose Tray

864Y-02X

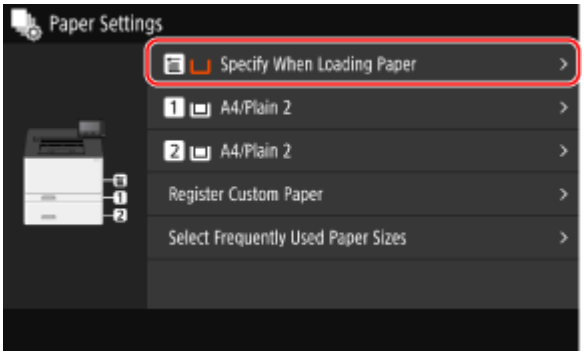
By default, when paper is loaded in the multi-purpose tray, the screen for setting the paper size and type is displayed on the operation panel.
If you always use the same paper in the multi-purpose tray, you can register the paper size and type. This prevents the paper settings screen from being displayed, saving you the trouble of configuring the settings.

When Using Paper of a Size or Type Different from the Registered Paper
After canceling the registration in Step 3, load the paper in the multi-purpose tray. When the screen for setting the paper size and type is displayed on the operation panel, configure the settings according to the paper to be used. **Setting the Paper Size and Type for the Multi-purpose Tray(P. 127)**

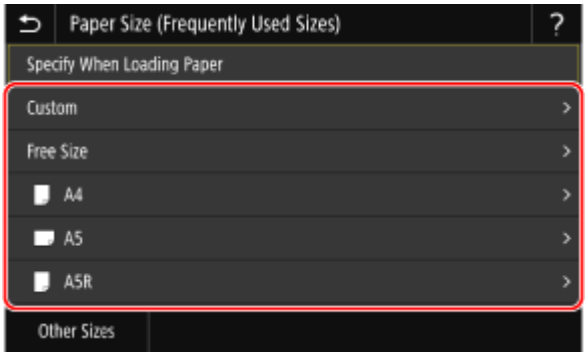
This section describes how to register the settings using the operation panel.
You can also register the settings using Remote UI from a computer. **Managing the Machine from a Computer (Remote UI)(P. 276)**

1 On the operation panel, press [Paper Settings] in the [Home] screen. [Home] Screen(P. 97)

2 Select the multi-purpose tray.



3 Select the paper size to register.



- You can scroll the screen to view paper sizes (such as envelopes) not displayed on the screen.
- If you frequently need to change the paper to be loaded, set to [Free Size]; this will reduce the number of steps required to change the setting each time. You can also display an error message when the setting in the printer driver is significantly different from the size of the loaded paper. **[Action When Free Paper Size Mismatch](P. 345)**

■When Registering A5 Size Paper

When paper is loaded in the landscape orientation, select [A5]. When paper is loaded in the portrait orientation, select [A5R].

Landscape orientation (A5)

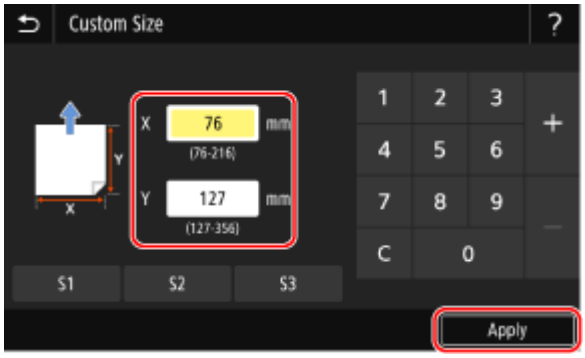


Portrait orientation (A5R)



■When Registering Non-standard Size (Custom Size) Paper

1. Press [Custom].
2. Enter the values in [X] and [Y], and press [Apply].



When frequently used non-standard sizes are registered, you can call these up by pressing [S1] to [S3].

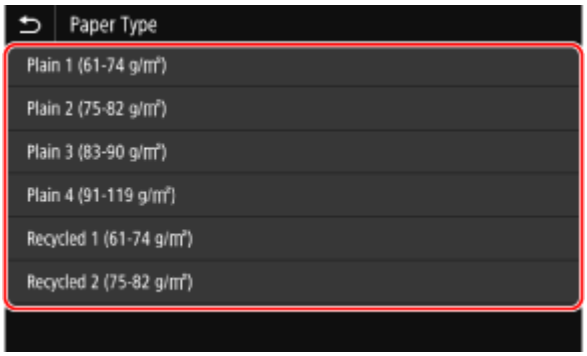
■If the Paper Size to Register Is Not Displayed

Press [Other Sizes], and select the paper size from the displayed list.

■To Cancel the Registered Paper

Press [Specify When Loading Paper]. You do not need to perform Step 4.
When paper is loaded in the multi-purpose tray, the screen for setting the paper size and type is displayed on the operation panel.

4 Select the paper type to register.



If you frequently need to change the paper to be loaded, set to [Free]; this will reduce the number of steps required to change the setting each time. However, note that this setting lets the machine perform printing even if there is mismatch between the paper type setting in the printer driver and the paper type actually loaded in the machine.
When the paper type setting in the printer driver is [Auto], the machine operates the same way as when the paper type is [Plain 1].

➠ The paper size and type are registered.

NOTE

- You can change the paper size displayed on the screen in Step 3. **Hiding Unused Paper Sizes(P. 133)**

Registering Non-standard Size Paper (Custom Paper)

864Y-02Y

Custom paper is non-standard size paper whose side lengths can be freely defined within the range supported by the machine.
You can register sizes when frequently using specific non-standard size paper. You can call up the paper on the size input screen, saving you the trouble of entering the size.
You can register up to three custom sizes.

This section describes how to register the settings using the operation panel.
You can also register the settings using Remote UI from a computer. **Managing the Machine from a Computer (Remote UI)(P. 276)**

1 On the operation panel, press [Paper Settings] in the [Home] screen. [Home] Screen(P. 97)

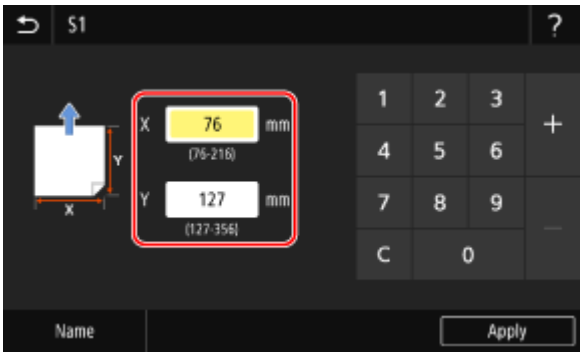
2 Press [Register Custom Paper].

➡ The [Register Custom Paper] screen is displayed.

3 Select from [S1] to [S3].

The size is registered to the selected number.

4 Enter the lengths for [X] and [Y].



Press [Name] to change the display name of [S1] to [S3].

5 Press [Apply].

➡ The custom paper is registered.

Hiding Unused Paper Sizes

864Y-030

The paper settings screen displays the registered frequently used paper sizes. If unused paper sizes are displayed, you can hide these for each paper source to make it easier to select a paper size.
To select a hidden paper size, press [Other Sizes] on the paper settings screen.

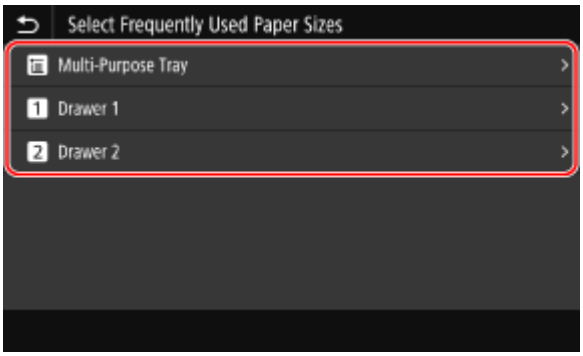
Use the operation panel to configure the settings. You cannot configure the settings using Remote UI from a computer.

1 On the operation panel, press [Paper Settings] in the [Home] screen. [Home] Screen(P. 97)

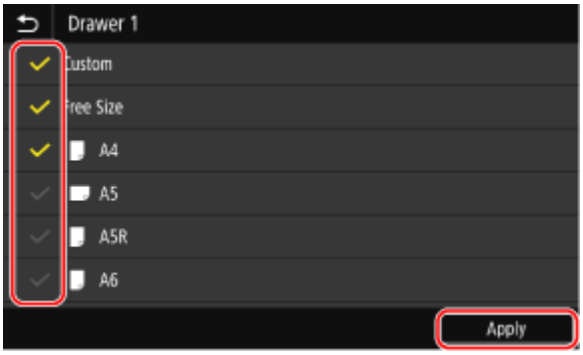
2 Press [Select Frequently Used Paper Sizes].

➡ The [Select Frequently Used Paper Sizes] screen is displayed.

3 Select a paper source.



4 Clear the checkboxes of the paper sizes to hide, and click [Apply].



➡ Paper sizes whose checkboxes are cleared are not displayed on the paper settings screen.

Using the Appropriate Paper Source for Each Function

864Y-031

If you print without specifying the paper source, the machine automatically selects the paper source according to the size of the paper to be printed. In addition, if the machine runs out paper while printing, it automatically selects another paper source loaded with the same size paper to continue printing.
You can use the appropriate paper source by setting the paper source that is selected automatically for each function.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Function Settings] to configure the settings. **[Paper Source Auto Selection](P. 341)**

1 **Log in to Remote UI.** **Starting Remote UI(P. 277)**

2 **On the Portal page of Remote UI, click [Settings/Registration].** **Portal Page of Remote UI(P. 280)**

3 **Click [Common Settings] ▶ [Edit].**

➡ The [Edit Common Settings] screen is displayed.

4 **In [Paper Source Auto Selection], set the paper source to be selected automatically to [On].**

- Configure this setting for each function. For printing reports and lists and printing from memory media, set the paper source to [Other] to apply this setting.
- For each function, one of the paper drawers must be set for automatic selection. If the multi-purpose tray only is set for automatic selection, the setting cannot be completed.

5 **Click [OK].**

➡ The settings are applied.

6 **Log out from Remote UI.**

Inserting and Removing a USB Memory Device

864Y-032

You can insert a USB memory device into the machine to exchange data between the machine and the USB memory device.
Use the operation panel to safely remove the USB memory device from the machine.
You can use a USB memory device with a FAT16 (up to 2 GB) or FAT32 (up to 32 GB) file system.

Inserting a USB Memory Device(P. 135)
Removing the USB Memory Device(P. 136)

IMPORTANT

Saving Data to a USB Memory Device

- Data may not be able to be saved properly depending on the USB memory device.

Unsupported Devices

- USB memory devices with a security function
- USB memory devices that do not conform to USB standards
- USB card readers
- USB memory devices connected via an extension cable
- USB memory devices connected via a USB hub

Handling USB Memory Devices

- Do not remove the USB memory device or subject it to shocks or vibration or turn OFF the machine while data is being imported or exported.

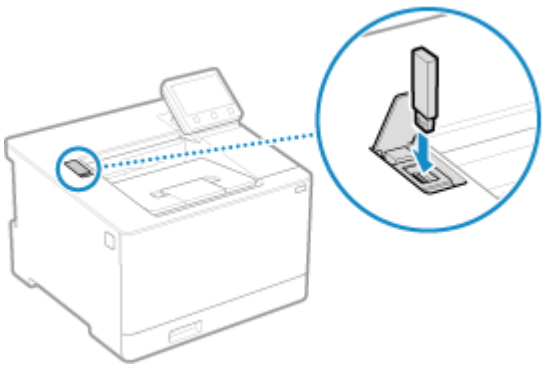
Inserting a USB Memory Device

Confirm the orientation of the USB memory device, and insert it into the USB port on the front of the machine.

IMPORTANT

Confirm the Orientation of the USB Memory Device before Inserting

- Make sure that the USB memory device is correctly oriented before inserting it into the USB port on the machine. If you attempt to insert it in the incorrect orientation, the memory device and the machine may be damaged.



Removing the USB Memory Device

Use the operation panel to eject the USB memory device from the machine. You cannot eject the memory device using Remote UI from a computer.

IMPORTANT

Follow the Procedure to Remove the USB Memory Device

- If you do not remove the USB memory device while following the procedure, the memory device and the machine may be damaged.

1 On the operation panel, press [Status Monitor] in the [Home] screen or other location. [Home] Screen(P. 97)

➡ The [Status Monitor] screen is displayed.

2 Press [Rmv. Mem. Media].

3 Make sure that [The memory media can be safely removed.] is displayed, and then remove the USB memory device.

Changing the Default Settings

864Y-033

You can change the default settings when using the same setting or value for multiple functions. If the settings are not changed, the default settings will be used.
By configuring the settings as standard or to save paper, for example, you can increase work efficiency and reduce costs.
Changing the Default Settings(P. 138)

Changing the Default Settings

864Y-034

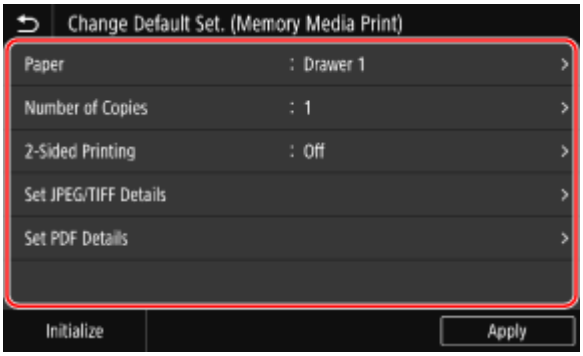
You can change the default settings for the Memory Media Print function called up using the operation panel.
You can also reset the settings to the settings set here by pressing [Reset] on the print setting screen.

This section describes how to configure the settings using the operation panel.
You can also configure the settings using Remote UI from a computer. **Managing the Machine from a Computer (Remote UI)(P. 276)**

1 **On the operation panel, press [Menu] in the [Home] screen.** **[Home] Screen(P. 97)**

2 **Press [Function Settings] ▶ [Access Files] ▶ [Common Settings] ▶ [Access Stored Files Settings] ▶ [Change Default Settings (Memory Media Print)].**

3 **Select the setting items to change, and change the default settings.**



For details about the setting items, see the following:
[Change Default Settings (Memory Media Print)](P. 381)

4 **Press [Apply].**

➡ The default settings are changed.

NOTE

Restoring Default Settings to the Factory Settings

- On the screen in Step 3, press [Initialize] ▶ [Yes].

Adjusting the Sound Volume

864Y-035

You can set whether the machine emits sounds notifying you of operations and statuses.

Adjusting the Volume(P. 140)

Adjusting the Volume

864Y-036

You can also set whether the machine emits sounds notifying you of operations and statuses, such as when operating the operation panel and errors are detected.

This section describes how to configure the settings using the operation panel.
You can also configure the settings using Remote UI from a computer. **Managing the Machine from a Computer (Remote UI)(P. 276)**

1 **Press the Sound Volume key ( ) on the operation panel.** **Operation Panel(P. 17)**

➡ The [Volume Settings] screen is displayed.

2 **Set whether notification sounds are emitted.** **[Volume Settings] Screen(P. 141)**

To emit notification sounds, select [On].

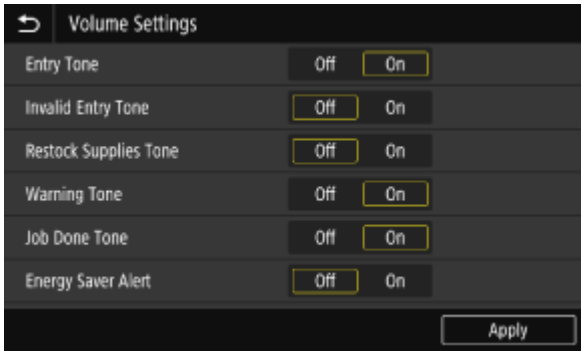
3 **Press [Apply].**

➡ The notification sound settings are applied.

[Volume Settings] Screen

864Y-037

You can set whether the machine emits sounds notifying you of operations and statuses.
When you press the Sound Volume key ( ) on the operation panel, the [Volume Settings] screen is displayed.



[Entry Tone]
Set whether to emit a sound when you press the keys and buttons on the operation panel.

[Invalid Entry Tone]
Set whether to emit a sound when an invalid key is pressed, such as when you enter a value outside the setting range.

[Restock Supplies Tone]
Set whether to emit a sound when the toner cartridges are nearing the end of their lifetime.

[Warning Tone]
Set whether to emit a sound when the machine has a paper jam or other malfunction.

[Job Done Tone]
Set whether to emit a sound when the print operation is completed.

[Energy Saver Alert]
Set whether to emit a sound when the machine enters and exits sleep mode.

Printing

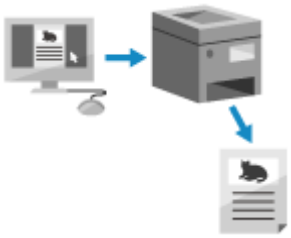
Printing 143
Printing Preparations 145
Preparing to Print from a Computer 146
Configuring a Printer Port (Windows) 149
Setting Up a Print Server 152
Preparations for Using Universal Print 155
Registering the Machine to Cloud Service 156
Registering the Machine to the Computer 159
Preparing to Print from a USB Memory Device 160
Preparing to Receive and Print I-Faxes 161
Printing from a Computer 163
Registering Non-standard Size Paper to the Computer (Custom Size) 166
Printing a Document Secured with a PIN (Secure Print) 168
Changing the Time Period That Print Data with a PIN (Secure Data) Is Saved 171
Enabling Secure Print in a Printer Driver (macOS) 172
Printing with Universal Print 173
Printing from a USB Memory Device (Memory Media Print) 174
Screen for Selecting Files in USB Memory Device 176
Memory Media Print Settings 177
Receiving and Printing I-Faxes 183
Changing the Print Settings of the Received I-Fax 184
Canceling Printing 185
Viewing the Print Job Status and Log 187

Printing

864Y-038

You can print documents and photos from a computer or print files directly from a USB memory device inserted into the machine. The machine can also receive and print I-Faxes.

Printing from a Computer



You can print documents and photos via a printer driver installed on a computer connected to the machine.

Preparing to Print from a Computer(P. 146)
Printing from a Computer(P. 163)

Setting Up a Print Server

By setting up a print server on a network, you can reduce the load on the computer that you print from. In Windows, you can install the printer driver via the print server, which saves you the trouble of downloading the printer driver to each computer on the network or using a CD/DVD-ROM.

Setting Up a Print Server(P. 152)

Printing with a PIN

When printing from a computer, you can send print data to the machine after setting a PIN. Printing is not performed until the PIN is entered on the machine, thereby preventing unattended printed documents and information theft.

Printing a Document Secured with a PIN (Secure Print)(P. 168)

Printing with the Standard Functions of the Operating System and Cloud Service

You can print without having to install a dedicated application or printer driver.

Windows

You can use Microsoft's cloud service, Universal Print, to print data. The Universal Print driver is standard in Windows 10, enabling you to also print from a remote location when the machine is connected to the Internet.

Preparations for Using Universal Print(P. 155)
Printing with Universal Print(P. 173)

macOS

You can use AirPrint to print data. **Using AirPrint Application to Print Data(P. 203)**

Chrome OS

Use the print function that is standard in the operating system. **Printing from Chromebook or Other Device with Chrome OS(P. 208)**

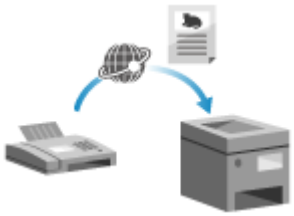
Directly Printing from a USB Memory Device



You can print PDF, JPEG, and TIFF files directly from a USB memory device inserted into the machine without using a computer.
This is convenient when printing files on a computer without a network connection or when printing files from an external device.

Preparing to Print from a USB Memory Device(P. 160)
Printing from a USB Memory Device (Memory Media Print)(P. 174)

Receiving and Printing I-Faxes



Internet Fax (I-Fax) is a function for sending and receiving faxes via the Internet.
The machine cannot send I-Faxes, but it can receive and print I-Faxes.
The machine for sending I-Faxes must support I-Fax technology.

Preparing to Receive and Print I-Faxes(P. 161)
Receiving and Printing I-Faxes(P. 183)

■ See Also

Printing from a Mobile Device

The machine can be operated from a smartphone, tablet, or other mobile device. By using a compatible application or service, you can easily print photos or documents from a mobile device.

Linking with Mobile Devices(P. 189)

When Results Are Not as Expected

If the color is not reproduced properly or the image position is shifted, adjust the print quality and position according to the symptoms.

Adjusting the Print Quality and Position(P. 423)

Printing Preparations

864Y-039

To print from the machine, you must make printing preparations according to your printing method and usage environment.

Preparing to Print from a Computer(P. 146)
Setting Up a Print Server(P. 152)
Preparations for Using Universal Print(P. 155)
Preparing to Print from a USB Memory Device(P. 160)

Preparing to Print from a Computer

864Y-03A

Make the following preparations for the computer that will be used to print.

Step 1: Installing the Driver to the Computer(P. 146)
Step 2: Using a Driver to Set the Department ID and PIN(P. 146)
Step 3: Configuring the Option Settings of the Machine Using the Driver(P. 146)

Step 1: Installing the Driver to the Computer

Install the printer driver to the computer that will be used to print. **Installing Software and Drivers to the Computer(P. 82)**

Using a Print Server in Windows
Use a print server to install the printer driver.
Double-click the shared printer on the print server, and follow the instructions on the screen to install the printer driver. **Displaying a Shared Printer in the Print Server(P. 517)**

NOTE

Changing the Port Type and Number (Windows)

- If the machine is configured not to use LPD or RAW, or if the port number was changed, the settings on the computer may also have to be changed. **Changing the Port Type and Number(P. 150)**

If the IP Address of the Machine Is Changed after Installing the Printer Driver

- You must add a new port. **Adding a Port(P. 149)**
  If you do not know which port is being used, see the following:
  Viewing the Printer Port(P. 522)
- In macOS, you must re-register the machine on the Mac. For details about registering the machine, see the manual of the driver at the online manual site.
  https://oip.manual.canon/

* If you are using DHCP to automatically obtain the IP address of the machine, the IP address may be changed automatically.

Step 2: Using a Driver to Set the Department ID and PIN

When Department ID Management is enabled on the machine, set the Department ID and PIN by specifying the printer driver. **Setting the Department ID and PIN on a Computer(P. 219)**
* You can skip this step when not using Department ID Management. Proceed to Step 3.

Step 3: Configuring the Option Settings of the Machine Using the Driver

When optional equipment is installed to the machine, you must configure the option settings in the printer driver in advance.
In Windows, normally, the option settings are configured automatically when the printer driver is installed.
Use the following procedure to configure the option settings when the option settings have not been configured at installation, optional equipment has been installed after installation of the printer driver, or when using macOS.

When Using Windows(P. 147)
When Using macOS(P. 147)

■When Using Windows

Administrator privileges are required on each computer.

1 Log on to the computer using an administrator account.

2 Click [ ] (Start) ▶ [ ] (Settings) ▶ [Devices] ▶ [Printers & scanners].

➠ The [Printers & scanners] screen is displayed.

3 Click the printer driver of the machine ▶ [Manage] ▶ [Printer properties].

➠ The printer driver properties screen is displayed.

4 On the [Device Settings] tab, click [ ] in [Device information].

➠ The [Confirmation] screen is displayed.

5 Click [Yes].

➠ The option settings are obtained.

6 Click [OK] ▶ [OK].

➠ The settings are applied.

NOTE

When [Could not get device information.] Appears

- Specify the option settings manually. For more information on how to configure the option settings manually, click [Help] on the [Device Settings] tab to display help.

■When Using macOS

1 Click [ ] ▶ [System Preferences] ▶ [Printers & Scanners].

➠ The [Printers & Scanners] screen is displayed.

2 Select the machine, and click [Options & Supplies].

3 On the [Utility] tab, click [Open Printer Utility].

➠ The [Office Printer Utility] screen is displayed.

4 **Click [Printer Information].**

➡ The option information is obtained, and the [Printer Information] screen is displayed.

5 **Click [OK].**

➡ The settings are applied.

NOTE

When the Option Information Cannot Be Obtained

- Specify the option settings manually. For details about configuring the option settings manually, see the manual of the driver at the online manual site.
https://oip.manual.canon/

Configuring a Printer Port (Windows)

864Y-03C

If the IP address of the machine changed or a printer has been added in Windows, you may not be able to print from a computer. In this case, use the printer driver to add a new port.
In addition, you cannot print from a computer when the port number of the printer driver differs from that of the machine setting. In this case, change the setting on the printer driver to match that of the machine.

Adding a Port(P. 149)
Changing the Port Type and Number(P. 150)

Adding a Port

Administrator privileges are required on each computer.

Required Preparations

- Prepare the information of the IP address or DNS name (host name) of the machine and keep it close by. **Checking the Network Status and Settings(P. 79)**

1 **Log on to the computer using an administrator account.**

2 **Click [ ] (Start) ▶ [ ] (Settings) ▶ [Devices] ▶ [Printers & scanners].**

➡ The [Printers & scanners] screen is displayed.

3 **Click the printer driver of the machine ▶ [Manage] ▶ [Printer properties].**

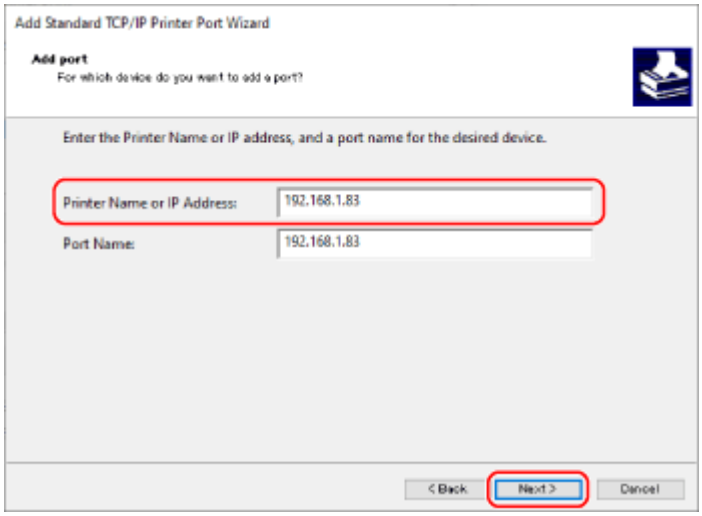
➡ The printer driver properties screen is displayed.

4 **On the [Ports] tab, click [Add Port].**

➡ The [Printer Ports] screen is displayed.

5 **Add a new port.**

1. Select [Standard TCP/IP Port], and click [New Port].
   ➡ The [Add Standard TCP/IP Printer Port Wizard] screen is displayed.
2. Click [Next].
3. Enter the IP address or DNS name (host name), and then click [Next].



The port name is entered automatically, so change it, as needed.

When [Additional port information required] Appears

Take action following the instructions on the screen. To set [Device Type], select [Canon Network Printing Device with P9100] in [Standard].

6 **Click [Finish].**

➠ A new port is added, and the [Printer Ports] screen is displayed.

7 **Click [Close] ▶ [Close].**

Changing the Port Type and Number

If the machine is configured not to use LPD or RAW, you must change the type of port on the computer to a protocol usable on the machine.
If the LPD or RAW port number was changed, the settings on the computer may have to be changed to match the settings on the machine.
* You do not need to change the port type or number on the computer for WSD ports.

Administrator privileges are required on each computer.

1 **Log on to the computer using an administrator account.**

2 **Click [ ] (Start) ▶ [ ] (Settings) ▶ [Devices] ▶ [Printers & scanners].**

➠ The [Printers & scanners] screen is displayed.

3 **Click the printer driver of the machine ▶ [Manage] ▶ [Printer properties].**

➠ The printer driver properties screen is displayed.

4 **On the [Ports] tab, click [Configure Port].**

➠ The [Configure Port] screen or [Configure Standard TCP/IP Port Monitor] screen is displayed.

5 Set the port type and number.

In [Protocol Type], select [Raw] or [LPR].

- When [Raw] is selected, change the port number.
- When [LPR] is selected, enter "Ip" for [Queue Name].

6 Click [OK] ▶ [Close].

➠ The settings are applied.

Setting Up a Print Server

864Y-03E

By setting up a print server on the network, you can speed up print operations on a computer, thereby reducing the load on the computer.
In Windows, you can install the printer driver via the print server to save you the trouble of downloading the printer driver to each computer on the network or using a CD/DVD-ROM.

To set up a print server, enable the print server to print from the machine, and then configure the settings for sharing the printer.
To use a print server in a domain environment, consult your network administrator..

Enabling the Print Server to Print from the Machine(P. 152)
Configuring the Settings for Sharing the Printer(P. 152)

Enabling the Print Server to Print from the Machine

Install the printer driver to the computer that will be the print server, and configure the settings according to your usage environment. **Preparing to Print from a Computer(P. 146)**

> **Using a Print Server While Using Department ID Management**
> You must install Canon Driver Information Assist Service when installing the printer driver. For more information, see the manual of the driver at the online manual site.
> **https://oip.manual.canon/**

Configuring the Settings for Sharing the Printer

Configure the printer sharing settings on the computer that will be the print server so that other computers on the network can use the print server.

When Using Windows(P. 152)
When Using macOS(P. 154)

■When Using Windows

Administrator privileges are required on the computer that will be the print server.

Required Preparations

- Check the operating system (32-bit or 64-bit) of the computer that will be the print server and the operating system of the computer that will use the print server (the client). **Viewing the System Information of the Computer(P. 518)**

1 Log on to the computer that will be the print server, using an administrator account.

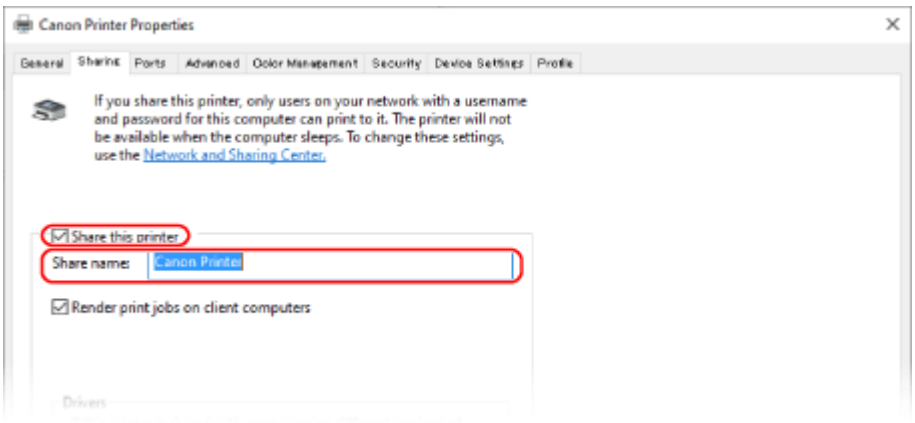
2 Click [ ] (Start) ▶ [ ] (Settings) ▶ [Devices] ▶ [Printers & scanners].

➡ The [Printers & scanners] screen is displayed.

3 Click the printer driver of the machine ▶ [Manage] ▶ [Printer properties].

➡ The printer driver properties screen is displayed.

4 On the [Sharing] tab, select the [Share this printer] checkbox, and enter a shared name.



5 Install an additional driver, as needed.

If the client computer has an operating system (32-bit or 64-bit) that differs from that of the print server, install an additional driver.

1 Click [Additional Drivers].

➡ The [Additional Drivers] screen is displayed.

2 Select the checkbox of the driver to be added, and click [OK].

- If the print server computer has a 32-bit operating system, select the [x64] (driver for 64-bit version) checkbox.
- If the print server computer has a 64-bit operating system, select the [x86] (driver for 32-bit version) checkbox.

3 Click [Browse], specify the folder where the driver is located, and click [OK].

When Specifying the Folder of the Downloaded Driver

- If the print server computer has a 32-bit operating system, specify the [x64] folder with the decompressed driver ▶ [Driver] folder.
- If the print server computer has a 64-bit operating system, specify the [32BIT] folder with the decompressed driver ▶ [Driver] folder.

When Specifying the Folder in the Supplied CD/DVD-ROM

- If the print server computer has a 32-bit operating system, specify [intdrv] in the CD/DVD-ROM ▶ [UFRII] ▶ [x64] ▶ [Driver] folder.
- If the print server computer has a 64-bit operating system, specify [intdrv] in the CD/DVD-ROM ▶ [UFRII] ▶ [32BIT] ▶ [Driver] folder.

4 Install the additional driver while following the instructions on the screen.

6 Click [OK].

➡ The settings are applied.

■When Using macOS

1 **Click [ ] ▶ [System Preferences] ▶ [Sharing].**

➠ The [Sharing] screen is displayed.

2 **Select the [Printer Sharing] checkbox.**

3 **In [Printers], select the checkbox of the machine.**

4 **Restrict the users that can use the print server, as needed.**

By default, all users can use the print server.
To enable specific users to use the print server, click [+] under [Users], and select the users who can use the print server.

5 **Close the [Sharing] screen.**

➠ The settings are applied.

Preparations for Using Universal Print

864Y-03F

Configure the machine to be able to use Microsoft's cloud service, Universal Print, and register the machine to each computer that will be used to print.
You must be a registered user of Microsoft 365 and use Azure Active Directory.

Registering the Machine to Cloud Service(P. 156)
Registering the Machine to the Computer(P. 159)

Registering the Machine to Cloud Service

864Y-03H

Register the machine to the cloud-based authentication and management service, Azure Active Directory, and set the members or groups that will use the machine.

Step 1: Registering the Machine to Azure Active Directory(P. 156)
Step 2: Specifying the Members and Groups to Use the Machine(P. 158)

Step 1: Registering the Machine to Azure Active Directory

Configure this setting using Remote UI from a computer. You cannot use the operation panel to configure the settings.
Administrator privileges are required.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Network Settings] ▶ [Universal Print Settings].

➡ The [Universal Print Settings] screen is displayed.

4 Click [Edit] in [Basic Settings].

5 Select the [Use Universal Print] checkbox, and enter the printer name.

- For the printer name, enter a name to identify the machine, using single-byte alphanumeric characters.
- To verify the certificate sent from the server, select the [Verify Server Certificate] checkbox.
  To add a Common Name (CN) to the verification items, select the [Add CN to Verification Items] checkbox as well.

6 Change Application ID and the URL of Azure Active Directory according to usage environment.

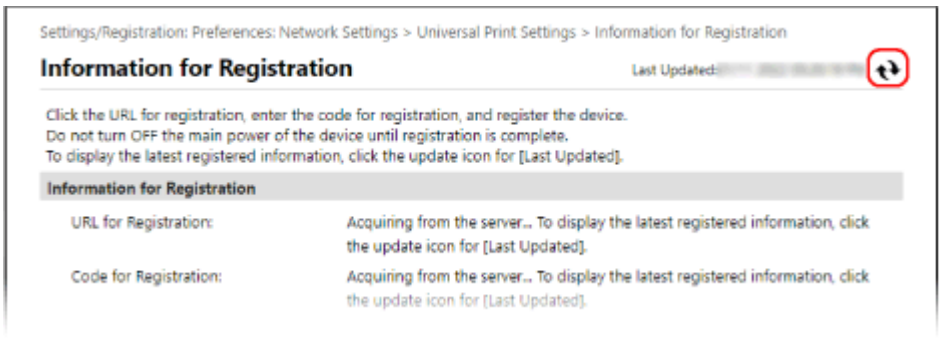
7 Click [OK].

➡ The [Universal Print Settings] screen is displayed.

8 Click [Register] in [Registration Status].

➡ The [Information for Registration] screen is displayed.

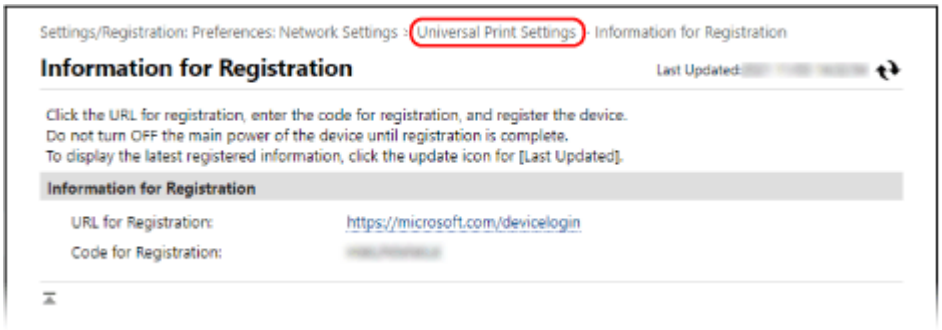
9 **Wait several seconds, and then click [↻].**



10 **Click the link displayed in [URL for Registration].**

11 **Register the machine according to the instructions on the screen.**

12 **Click [Universal Print Settings] at the top of the Remote UI screen.**



➠ The [Universal Print Settings] screen is displayed.

13 **Wait a few minutes, and then click [↻].**

➠ When registration is complete, [Registered] is displayed in [Registration Status].

14 **Log out from Remote UI.**

NOTE

Canceling the Registration

- Click [Unregister] on the [Universal Print Settings] screen ▶ [OK]. On the Azure Active Directory device management screen, select the machine and click [Delete].

Step 2: Specifying the Members and Groups to Use the Machine

1 **Display the Universal Print management screen of Azure Active Directory in a Web browser on a computer.**

2 **Select the machine, and click [Share Printer].**

To change the name of the machine displayed on the computer, change [Printer Share Name].

3 **Click [Members] ▶ [Add].**

4 **From the list, select the members and groups who will use the printer.**

Registering the Machine to the Computer

864Y-03J

Register the machine, which is registered to Azure Active Directory, to the computer to be used for Universal Print.

Required Preparations

- Register the machine to Azure Active Directory. **Registering the Machine to Cloud Service(P. 156)**

1 **Click [ ] (Start) ▶ [ ] (Settings) ▶ [Accounts].**

➡ The [Your info] screen is displayed.

2 **Click [Access work or school] ▶ [Connect].**

3 **Follow the on-screen instructions to sign in to your Microsoft 365 account.**

4 **Click [Home] ▶ [Devices] ▶ [Printers & scanners].**

➡ The [Printers & scanners] screen is displayed.

5 **Click [Add a printer or scanner].**

➡ The printer list screen is displayed.

6 **Select the machine and click [Add device].**

➡ The machine is registered to the computer.

NOTE

When Using a Proxy Server

- To use Universal Print via a proxy server, you must configure the proxy settings on each computer. For details, contact the network administrator.

Preparing to Print from a USB Memory Device

864Y-03K

Configure the settings to be able to print data from a USB memory device.
By default, this machine cannot print from a USB memory device.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Function Settings] to configure the settings. **[Memory Media Settings](P. 380)**
Administrator privileges are required. The machine must be restarted to apply the settings.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Access Files Settings] ▶ [Memory Media Settings] ▶ [Edit].

➡ The [Edit Memory Media Settings] screen is displayed.

4 Select the [Memory Media Print] checkbox, and click [OK].

5 Restart the machine. Restarting the Machine(P. 90)

➡ The settings are applied.

NOTE

Displaying the Operation Screen When a USB Memory Device Is Connected

- You can configure the setting to display the operation (Memory Media Print) screen when a USB memory device is inserted into the machine.

  Log in to Remote UI in System Manager Mode ▶ [Settings/Registration] ▶ [Access Files Settings] ▶ [Edit] in [Display Screen When Memory Media is Connected] ▶ select the [Display Screen When Memory Media is Connected] checkbox ▶ [OK]

  Using the operation panel, configure the settings in the [Home] screen from [Menu] ▶ [Function Settings]. **[Screen When Mem. Med. Conn](P. 380)**

Preparing to Receive and Print I-Faxes

864Y-044

Configure the information of the e-mail server to use for receiving and printing data by I-Fax (Internet Fax). You can also configure APOP authentication and encryption communication settings.

This section describes how to configure the settings using Remote UI from a computer. You cannot use the operation panel to configure the settings.
Administrator privileges are required. The machine must be restarted to apply the settings.
If the port number of the e-mail server (POP3 server) is other than 110, you must change the port number setting. **Changing the Port Number(P. 227)**

Required Preparations

- Connect the computer you are using to configure the settings to the machine over a network.
- Prepare the following information and keep it close by.
  - IP address of the machine **Checking the Network Status and Settings(P. 79)**
  - Setting information of the e-mail server (POP3 server name, user name, and password to be used for authentication, encrypted communication setting)
    * For details about the setting information, contact your provider or network administrator. Depending on the usage environment, you can also refer to the information set in the computer e-mail software.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Network Settings] ▶ [E-Mail Settings] ▶ [Edit].

➡ The [Edit E-Mail Settings] screen is displayed.

4 Enter the basic settings of the e-mail server.

[POP Server]

Enter the POP3 server name (the host name or IP address) using single-byte alphanumeric characters.

Input example: Host name
pop.example.com

[User Name]

Enter the user name used for authenticating the POP3 server using single-byte alphanumeric characters.

[Set/Change Password]

To set a password to use when authenticating the POP3 server, select this checkbox, and enter the password using single-byte alphanumeric characters.

[POP RX]

Select this checkbox.

[POP Interval]

Enter the interval at which to connect automatically to the POP3 server to receive I-Faxes.
To not receive I-Faxes automatically, enter [0]. In this case, I-Faxes must be manually received.

5 Configure the APOP authentication and encryption settings according to your usage environment.

■To Use APOP Authentication to Encrypt Password at Authentication

Select the [Use APOP Authentication] checkbox.

■To Encrypt Communication with the POP3 Server

Select the [Use TLS for POP] checkbox.

6 Click [OK].

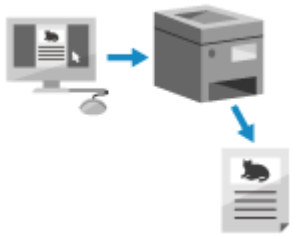
By clicking [Check POP Connection], you can check the connection with the POP3 server using the current settings.

7 Restart the machine. Restarting the Machine(P. 90)

➠ The settings are applied.

Printing from a Computer

864Y-03L



You can print documents from a computer using a printer driver.
By changing the settings on the printer driver, you can print according to the document and purpose, such as by using 2-sided printing or adjusting the quality.

This section describes the general procedure for this operation. Check the manual of the application you are using for detailed operations on how to use it.

Required Preparations

- Install the printer driver on the computer, and configure the settings according to your usage environment. **Preparing to Print from a Computer(P. 146)**
- If the document or paper to print is a non-standard size, register the size to the printer driver. **Registering Non-standard Size Paper to the Computer (Custom Size)(P. 166)**

When Using Windows(P. 163)
When Using macOS(P. 164)

■When Using Windows

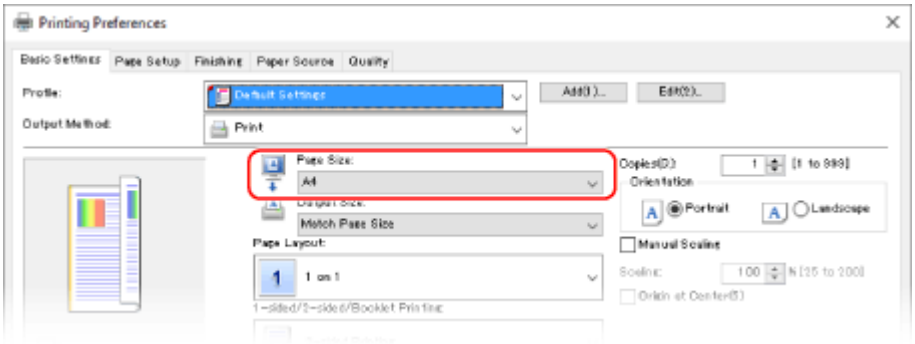
1 On your computer, open the document you want to print.

2 In the application used to open the document, select the command to print.

3 Select the printer driver of the machine, and click [Preferences] or [Properties].

➠ The [Printing preferences] screen of the printer driver is displayed.

4 In [Page Size] on the [Basic Settings] tab, select the paper size of the document.



When Printing on Paper of a Size Different from [Page Size]

In [Output Size], select the paper size to print on. The document is enlarged or reduced to match the paper size in [Output Size].

5 Configure the other print settings, as needed.

Configure 2-sided printing and adjust the image quality and other settings to suit your document and purpose. For more information, click [Help] on the [Printing preferences] screen to display help.

6 Click [OK], and click [Print] or [OK].

➠ Printing starts.

- You can cancel printing on the printing screen or from the printer icon in the Windows notification area. **Canceling Printing from a Computer(P. 185)**
- Use [Status Monitor] on the operation panel to view the print job status and log. **Viewing the Print Job Status and Log(P. 187)**

When Using macOS

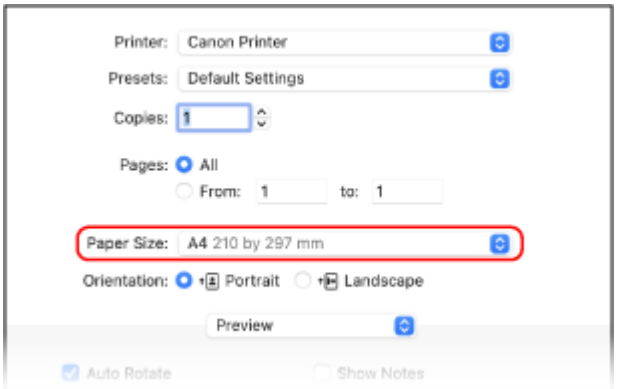
1 On your computer, open the document you want to print.

2 From the menu in the application used to open the document, click [Print].

➠ The printing dialog box appears.

3 In [Printer], select the printer driver of the machine.

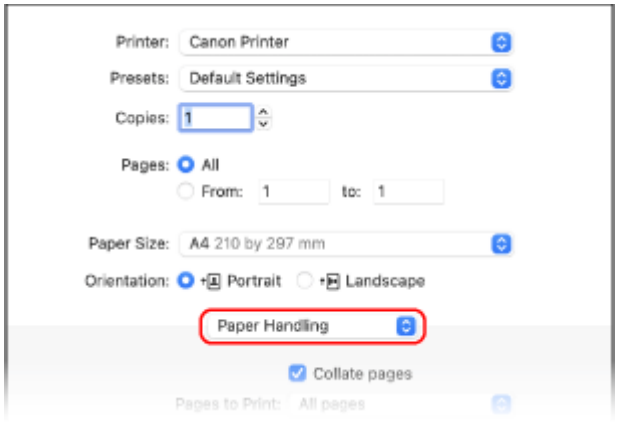
4 In [Paper Size] of the print options, select the paper size of the document.



If print options are not displayed, click [Show Details] in the printing dialog box.

When Printing on Paper of a Size Different from [Paper Size]

1 From the print options pop-up menu, select [Paper Handling].



2 Select the [Scale to fit paper size] checkbox, and in [Destination Paper Size], select the paper size to print on.
The document is enlarged or reduced to match the paper size in [Destination Paper Size].

5 Configure the other print settings, as needed.

Configure 2-sided printing and adjust the image quality and other settings to suit your document and purpose. For more information, click [?] in the printing dialog box to display help.

6 Click [Print].

➠ Printing starts.

- You can cancel printing from the printer icon in the Dock. **Canceling Printing from a Computer(P. 185)**
- Use [Status Monitor] on the operation panel to view the print job status and log. **Viewing the Print Job Status and Log(P. 187)**

Registering Non-standard Size Paper to the Computer (Custom Size)

864Y-03R

Custom size paper is non-standard size paper whose side lengths can be freely defined.
If the document or paper to print is a non-standard size, you must register the size to the printer driver in advance.

When Using Windows(P. 166)
When Using macOS(P. 166)

■When Using Windows

1 **Click [ ] (Start) ▶ [ ] (Settings) ▶ [Devices] ▶ [Printers & scanners].**

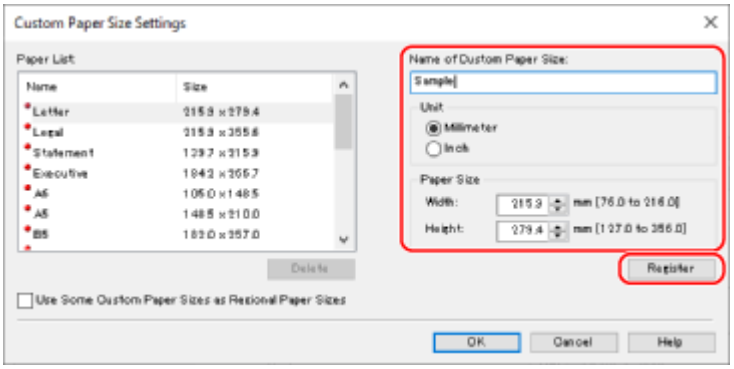
➡ The [Printers & scanners] screen is displayed.

2 **Click the printer driver of the machine ▶ [Manage] ▶ [Printing preferences].**

➡ The [Printing preferences] screen of the printer driver is displayed.

3 **On the [Page Setup] tab, click [Custom Paper Size].**

4 **Enter the custom size paper name and paper size, and click [Register].**



5 **Click [OK] ▶ [OK].**

➡ The custom size paper is registered.

■When Using macOS

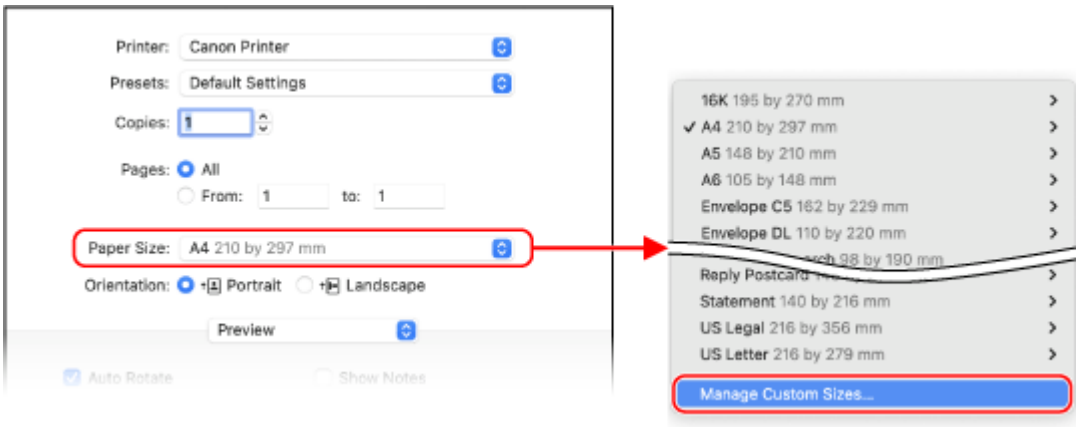
1 **On your computer, open the document you want to print.**

2 From the menu in the application used to open the document, click [Print].

➠ The printing dialog box appears.

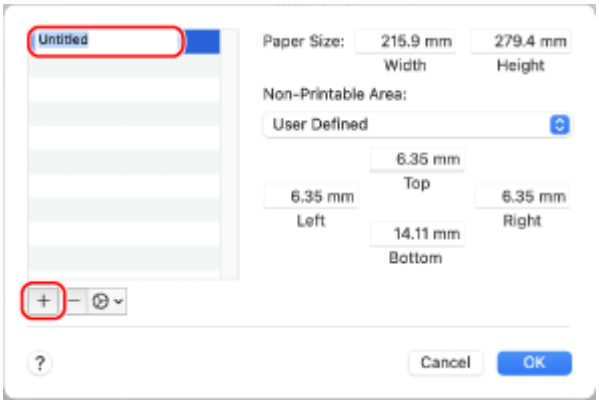
3 In [Printer], select the printer driver of the machine.

4 In [Paper Size] of the print options, select [Manage Custom Sizes].



If print options are not displayed, click [Show Details] in the printing dialog box.

5 Click [+] at the bottom left, double-click [Untitled], and enter the custom size paper name.



6 Enter the paper size, and click [OK].

➠ The custom size paper is registered.

Printing a Document Secured with a PIN (Secure Print)

864Y-03S

With Secure Print, you can set a PIN to a document on the computer and send that document to the machine to be printed. Printing is performed after that PIN is entered on the machine.
Secure Print can prevent unattended printed documents and information theft. You can also confirm the print data before printing to prevent unwanted printing.

The print data sent with a PIN (secure data) is temporarily saved in the memory of the machine. If printing is not performed after a set period of time, the secure data is deleted automatically from the memory, and you can no longer print the data.

Step 1: Sending Secure Data from a Computer(P. 168)
Step 2: Printing Secure Data by Entering a PIN or Password(P. 170)

NOTE

- You can change the period of time that the secure data is saved. **Changing the Time Period That Print Data with a PIN (Secure Data) Is Saved(P. 171)**

Step 1: Sending Secure Data from a Computer

You can send secure data from a computer to the machine using a printer driver.

In Windows, you can send encrypted secure data (using Encrypted Secure Print), thereby preventing eavesdropping during communication. Secure data is encrypted with an alphanumeric password instead of a PIN.
For details about sending secure data using the Encrypted Secure Print function, see the manual of the driver at the online manual site.
https://oip.manual.canon/

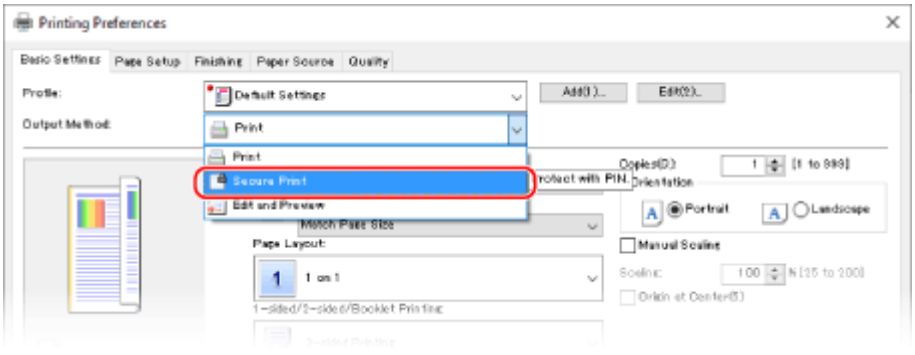
When Using Windows(P. 168)
When Using macOS(P. 169)

When Using Windows

This section describes how to send regular secure data.

1 Display the [Printing preferences] screen of the printer driver. Printing from a Computer(P. 163)

2 In [Output Method], select [Secured Print].



The [Information] screen is displayed.

3 Click [Yes].

➡ The [Secured Print Details] screen is displayed.

4 Enter the user name and PIN, and click [OK].

➡ The [Printing preferences] screen reappears.

5 Click [OK], and click [Print] or [OK].

➡ The secure data is sent to the machine.

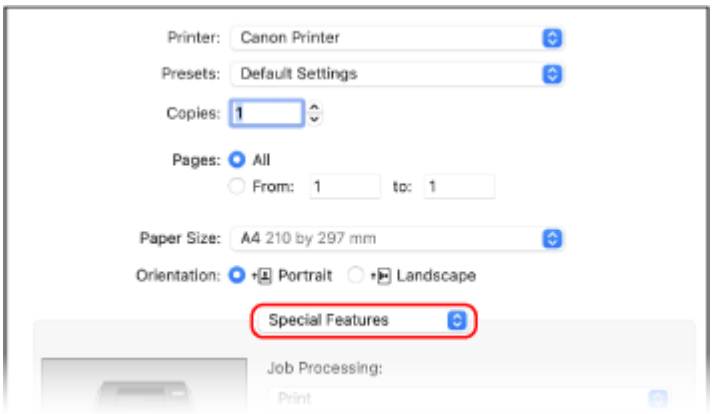
■When Using macOS

Required Preparations

- Enable Secure Print in the settings of the printer registered to the computer. **Enabling Secure Print in a Printer Driver (macOS)(P. 172)**

1 Display the printing dialog box, and select the printer driver of the machine. Printing from a Computer(P. 163)

2 From the print options pop-up menu, select [Special Features].



If print options are not displayed, click [Show Details] in the printing dialog box.

3 In [Job Processing], select [Secured Print].

4 Click [Print].

➡ The [Secured Print] screen is displayed.

5 Enter the document name, user name, and PIN, and click [OK].

➡ The secure data is sent to the machine.

Step 2: Printing Secure Data by Entering a PIN or Password

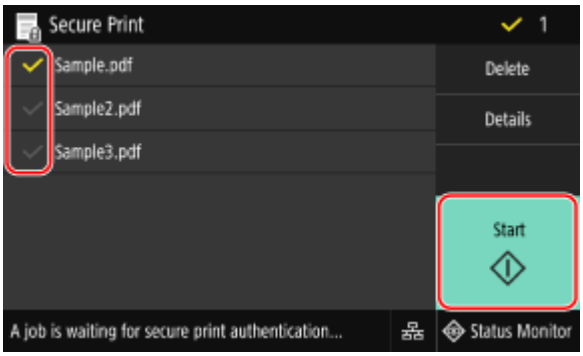
Print the secure data sent to the machine. If the secure data is left without printing, it will remain in the memory of the machine, and you may not be able to print other data. Print the sent secure data as soon as possible.

1 On the operation panel, press [Secure Print] in the [Home] screen. [Home] Screen(P. 97)

➡ The Secure Print screen is displayed.

If the screen for selecting the user is displayed, select your user name.

2 Select the checkbox of the secure data to print, and press [Start].



3 Enter the PIN or password, and press [Apply].

➡ Printing starts.

- If you selected multiple files of secure data in Step 2 above, only secure data that matches the entered PIN or password is printed.
- To cancel printing, use the control panel to cancel printing. **Canceling Printing with the Operation Panel(P. 186)**
- Use [Status Monitor] to view the print job status and log. **Viewing the Print Job Status and Log(P. 187)**

NOTE

- You can use the following procedure to view the memory usage of saved secure data.

On the operation panel, in the [Home] screen or other location, click [Status Monitor] ▶ [Device Information] ▶ [Secure Print Memory Usage].

Changing the Time Period That Print Data with a PIN (Secure Data) Is Saved

864Y-03U

You can change the period of time until the print data that was sent with a PIN or password (secure data) and is temporarily saved in the memory of the machine is deleted.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Function Settings] to configure the settings. **[Secure Print](P. 338)**
Administrator privileges are required.

1 **Log in to Remote UI in System Manager Mode.** **Starting Remote UI(P. 277)**

2 **On the Portal page of Remote UI, click [Settings/Registration].** **Portal Page of Remote UI(P. 280)**

3 **Click [Secure Print Settings] [Edit].**

➡ The [Edit Secure Print Settings] screen is displayed.

4 **In [Secure Print Deletion Time], enter the period of time the secure data is saved (until it is deleted), and click [OK].**

➡ The settings are applied.

5 **Log out from Remote UI.**

Enabling Secure Print in a Printer Driver (macOS)

864Y-03W

To send secure data from a macOS computer to the machine, you must enable Secure Print in the settings of the printer registered to the computer.

1 Click [ ] ▶ [System Preferences] ▶ [Printers & Scanners].

➡ The [Printers & Scanners] screen is displayed.

2 Select the machine, and click [Options & Supplies].

3 On the [Options] tab, select the [Secured Print] checkbox, and click [OK].

➡ The settings are applied.

Printing with Universal Print

864Y-03X

Universal Print is a service for printing documents via the Microsoft cloud. The Universal Print driver is standard with Windows 10, so there is no need to install a printer driver for each computer. If your device is connected to the Internet, you can print documents when you are away from the machine.

To use Universal Print, you must be a registered user of Microsoft 365 and use Azure Active Directory.

Required Preparations

- Register the machine to Azure Active Directory, and set the members or groups that will use the machine. **Registering the Machine to Cloud Service(P. 156)**
- To each computer that will use Universal Print, register the machine that is registered to Azure Active Directory. **Registering the Machine to the Computer(P. 159)**

For details about how to print with Universal Print and the supported operating systems, see the Microsoft website.
https://docs.microsoft.com/

Printing from a USB Memory Device (Memory Media Print)

864Y-03Y



With Memory Media Print, you can print PDF, JPEG, and TIFF files directly from a USB memory device inserted into the machine without using a computer or printer driver. You can also preview JPEG and TIFF image files on the operation panel before printing.
This is convenient when printing files on a computer without a network connection or from an external device.

Required Preparations

- Configure the settings to print data from a USB memory device. **Preparing to Print from a USB Memory Device(P. 160)**
  * By default, this machine does not allow printing.

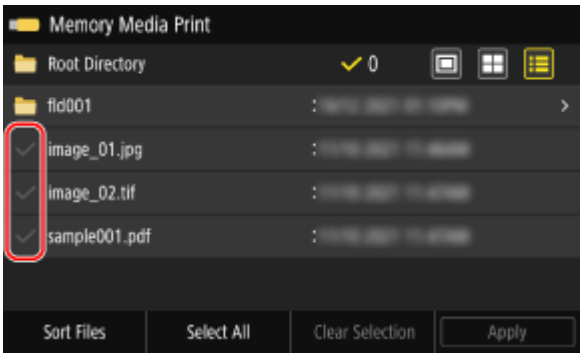
1 Insert a USB memory device into the USB port on the machine. Inserting and Removing a USB Memory Device(P. 135)

If the memory media operation screen appears, press [Memory Media Print], and proceed to step 3.

2 On the operation panel, press [Memory Media Print] in the [Home] screen. [Home] Screen(P. 97)

➡ The files and folders of the USB memory device are displayed.

3 Select the checkboxes of the files to print. Screen for Selecting Files in USB Memory Device(P. 176)



You can select multiple files.

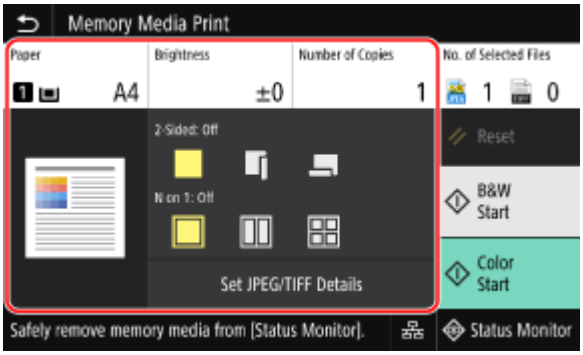
* Only files in the same folder can be selected at the same time. If you move the folder, the file selection is canceled.

* You cannot select both PDF files and image files (JPEG or TIFF files) at the same time.

4 Press [Apply].

➡ The Memory Media Print settings screen is displayed.

5 Configure the print settings. Memory Media Print Settings(P. 177)



6 Press [Start B&W] or [Start Color].

➠ Printing starts.

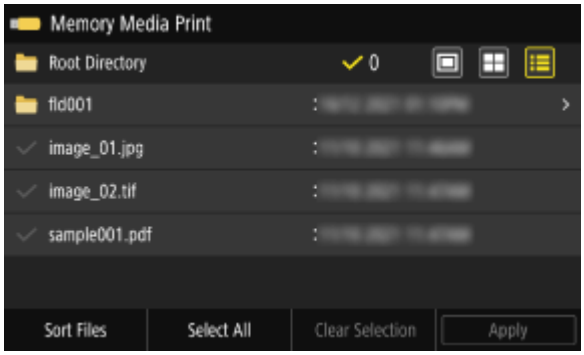
- To print in black and white, press [Start B&W]. To print in color, press [Start Color].
- To cancel printing, use the control panel to cancel printing. **Canceling Printing with the Operation Panel(P. 186)**
- Use [Status Monitor] to view the print job status and log. **Viewing the Print Job Status and Log(P. 187)**

7 When printing is completed, remove the USB memory device. Removing the USB Memory Device(P. 136)

Screen for Selecting Files in USB Memory Device

864Y-040

Insert the USB memory device into the machine, and in the [Home] screen, press [Memory Media Print] to display the files and folders in the USB memory device.



Select the checkboxes of the files to print.
To select all displayed files, press [Select All] at the bottom of the screen. If there are both PDF files and image files (JPEG or TIFF files), a screen for selecting the file type is displayed. Use this screen to select the file type you want to print.
You can also use the following method to change the display of the file selection screen.

Moving Files to a Folder

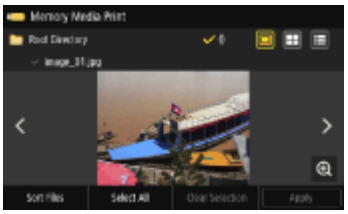
Select a folder. To navigate up one level, press [ ].

* Folders and files deeper than five levels are not displayed.

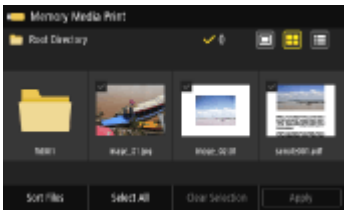
Changing the File Display Method

Press [ ], [ ], or [ ] at the top right of the screen to change the way files are displayed.

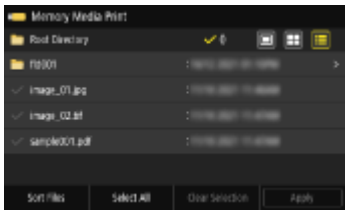
(Preview)



(Thumbnail)



(Details)



Changing the File Display Order

You can arrange files by file name or when last updated.
Press [Sort Files] at the bottom of the screen, and select the file display order.

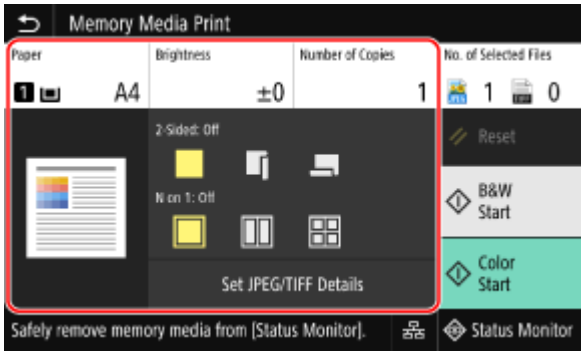
NOTE

- You can also change the default file display method and display order settings.
  [Default Display Settings](P. 385)
  [File Sort Default Settings](P. 385)

Memory Media Print Settings

864Y-041

You can use the Memory Media Print settings screen to select the paper to use, set 2-sided printing, and configure other settings. You can also display the details settings screen to adjust the image quality and configure other detailed print settings.



* To start printing, select the color to print by pressing [Start B&W] or [Start Color].

[Paper]
Select the paper to use for printing.
Select the paper source with the loaded paper to use, and press [Close].
* If the paper loaded in the paper source does not match the setting of the paper size or paper type, you can use [Change Paper Settings] to change the paper settings.

[Brightness]
Adjust the brightness of the printed image.
Drag the slider to the left or right to adjust the brightness, and then press [Close].
Press [+] to increase the brightness and [-] to lower it.

[Number of Copies]
Specify the number of copies to print.
Use the numeric keys to enter the number of copies, and then press [Close].

[2-Sided Printing]
Use the button to select whether to use 2-sided printing.


Prints on one side.


Prints on both sides of the paper with the same top and bottom orientation on the front and back sides.
Printed pages are opened horizontally when the paper is bound.




Prints on both sides of the paper with the reverse top and bottom orientation on the front and back sides.
Printed pages are opened vertically when the paper is bound.



[N on 1] (PDF or JPEG file)
Specify whether to reduce the size of a multiple-page document and arrange the pages on one side of a sheet of paper.

N on 1 is convenient when you want to save paper by printing on fewer sheets of paper than the original.
Use the button to select the number of pages to be combined.


Pages are not combined.


Combines a 2-page document onto one side of a sheet of paper.


Combines a 4-page document onto one side of a sheet of paper.


Combines an 8-page document onto one side of a sheet of paper. (PDF files only)

* For a PDF file, you can print 9 or 16 pages of a document on one side of a sheet of paper by using [N on 1] on the details settings screen. **[Set PDF Details] Screen(P. 178)**

[Set PDF Details]/[Set JPEG/TIFF Details]
Adjust the image quality and configure other detailed print settings.
[Set PDF Details] Screen(P. 178)
[Set JPEG/TIFF Details] Screen(P. 181)

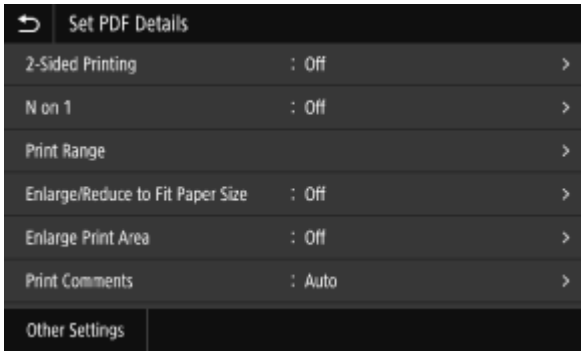
NOTE

Printing with the Same Settings

- You can change the default Memory Media Print settings. **Changing the Default Settings(P. 138)**

[Set PDF Details] Screen

Use this screen to configure detailed print settings for PDF files, such as specifying the pages to print and adjusting the image quality.
To display the screen, press [Set PDF Details] on the Memory Media Print settings screen.



[2-Sided Printing]
Specify whether to use 2-sided printing. When using 2-sided printing, select how printed pages are opened when the paper is bound.
* This is the same setting as [2-Sided Printing] on the Memory Media Print settings screen.

[N on 1]
Specify whether to reduce the size of a multiple-page document and arrange the pages on one side of a sheet of paper.
When combining pages, use the button to select the number of pages to be combined.

Example: When combining a 4-page document onto one side of a sheet of paper
Select [4 on 1].

* This is the same setting as [N on 1] on the Memory Media Print settings screen. However, [9 on 1] and [16 on 1] are only available for [N on 1] on the [Set PDF Details] screen.

[Print Range]
Print all pages, or specify a range of pages to print. When specifying a range of pages, press [Specified Pages], and enter the starting and ending pages.

[Enlarge/Reduce to Fit Paper Size]
Specify whether to enlarge or reduce the document according to the paper to be used for printing.
* The document is enlarged or reduced while maintaining the aspect ratio.

[Enlarge Print Area]
Specify whether to enlarge the print area to the edge of the paper without providing margins around the paper.
* When [Enlarge Print Area] is set to [On], part of the edge of the printed image may not be printed, or the paper may be partly smudged.

[Print Comments]
Specify whether to print PDF comments.
When you select [Auto], the document and comments[*1] are printed.

[*1] Only comments specified for printing in the PDF file.

[Line Refinement]
Specify whether to make the thickness of thin lines in the document uniform.
When you select [On (Slim)], lines are slimmer than with [On], but lines may become too thin or faint.

[Password to Open Document]
When printing a password-protected PDF file, enter the password to open the file.

[Other Settings]
Configure and adjust image quality settings and other detailed print settings.

[Halftones]
Set the printing method when reproducing halftones (the intermediate range between the lighter and darker areas of an image). For details about the settings, see the following:
[Halftones](P. 354)

[Pure Black Text]
Specify whether to print black text using 1-color black (K) toner.
If you specify [Off] in this setting, documents are printed according to the settings in [Output Profile].
* This applies to black text where the color information is as follows:

- R = G = B = 0%
- C = M = Y = 100%
- C = M = Y = 0%, K = 100%

[Black Overprint]
Specify whether overprinting (printing colors on top of each other) is used when black text appears on a color background or is overlaid on a figure. For details about the settings, see the following:
[Black Overprint](P. 368)

[RGB Source Profile]
Select the appropriate profile according to the monitor you are using when printing RGB data. For details about the settings, see the following:
[RGB Source Profile](P. 368)

[CMYK Simulation Profile]
Select the simulation target when printing CMYK data. The machine converts CMYK data to a device-dependent CMYK color model based on this simulation. For details about the settings, see the following:
[CMYK Simulation Profile](P. 369)

[Use Grayscale Profile]
Specify whether to convert gray data to CMYK data using the grayscale profile of the machine.

* Even if [On] is selected, data is printed using 1-color black (K) toner, depending on the setting of [Output Profile] or [Pure Black Text].

[Output Profile]
Select the appropriate profile for the print data. For details about the settings, see the following:
[Output Profile](P. 369)

[Matching Method]
Select the element to be prioritized when adjusting the color with [RGB Source Profile]. For details about the settings, see the following:
[Matching Method](P. 370)

[Composite Overprint]
Specify whether to overprint CMYK data set for overprinting, as composite output.
Specifying [Off] in this setting prints the image as if overprinting were not specified.
* Overprinting with special colors is not used, even if [On] is specified here.

[Grayscale Conversion]
Specify the conversion method when printing color data in black and white. For details about the settings, see the following:
[Grayscale Conversion](P. 371)

[Print Quality]
Adjust the print quality, such as the density and resolution, according to the document and purpose of printing.

[Density]

Adjust the toner density for each color during printing.
For more precise adjustment, you can adjust the levels of the three density areas for each color in [Fine Adjust].

* When [Toner Save] is set to [On], you cannot adjust the toner density.

[Toner Save]

Specify whether to print while saving toner.
To print after checking the layout and appearance, such as before printing a large job, select [On].

[Gradation]

Specify the processing method used to reproduce gradation.
When you select [High 2], printing is performed with finer gradation than with [High 1].

* This setting is only available when [Resolution] is set to [600 dpi].

[Density Fine Adjustment]

Adjusts the density of fine lines and small text. Adjusts the density when fine lines or small text is faded to give less faded print.

* Adjusting the density also affects the color balance and objects other than lines and text.

* This setting is only available when [Resolution] is set to [1200 dpi].

[Resolution]

Specify the resolution to be used for print data processing.
To print with a higher resolution, specify [1200 dpi] in this setting.

[Special Smoothing Mode]

Specify the mode to print data with a smooth finish. For details about the settings, see the following:
[Special Smoothing Mode](P. 347)

[Toner Volume Correction]

Adjusts the toner volume for data such as text and lines so as not to exceed the limit value of the machine.
For details about the settings, see the following:
[Toner Volume Correction](P. 348)

[Line Control]

Specify the processing method used to reproduce lines. For details about the settings, see the following:
[Line Control](P. 348)

[Width Adjustment]

Specify whether to adjust the printing of text and fine lines so that they appear bold.
If you specify [On] in this setting, select what is to be adjusted.

* When you select [On], the printing speed may decrease or the image quality may change.

[Advanced Smoothing]

Specify processing that will produce smoother printed outlines for text and graphics (illustrations created in an application). For details about the settings, see the following:
[Advanced Smoothing](P. 349)

[Gradation Smoothing]

Specify processing that will produce smoother printed gradations in images such as graphics (illustrations created in an application) and bitmap images. For details about the settings, see the following:
[Gradation Smoothing](P. 349)

[Enhance Text for B&W Printing]

When printing a document that includes color text in black and white, specify whether to adjust the text density to make it easier to read.

* If you specify [Off] in this setting when printing a document that includes light-colored text in black and white, the text will be printed more faintly and will be more difficult to see than when [On] is specified.

* If the text appears enhanced even when [Off] is specified, specify [Advanced Smoothing] to disable the smoothing effect.

[Set JPEG/TIFF Details] Screen

Use this screen to configure detailed print settings for JPEG and TIFF files, such adjusting the image quality.
To display the screen, press [Set JPEG/TIFF Details] on the Memory Media Print settings screen.



[2-Sided Printing]
Specify whether to use 2-sided printing. When using 2-sided printing, select how printed pages are opened when the paper is bound.
* This is the same setting as [2-Sided Printing] on the Memory Media Print settings screen.

[N on 1] (JPEG file)
Specify whether to reduce the size of a multiple-page image and arrange the pages on one side of a sheet of paper.
When combining pages, use the button to select the number of pages to be combined.

Example: When combining a 4-page image onto one side of a sheet of paper
Select [4 on 1].

* This is the same setting as [N on 1] on the Memory Media Print settings screen.

[Original Type]
Select whether to prioritize smoothness of a photo or clarity of text when printing.

[Halftones]

Set the printing method when reproducing halftones (the intermediate range between the lighter and darker areas of an image), according to the image content.

To Print Images with Fine Gradations, Such as Digital Camera Photos
Set to [Gradation]. Reproduces the gradation with a smooth finish.

To Print Images with Fine Lines and Small Text, Such as CAD Images
Set to [Error Diffusion]. Prints fine lines and small text with high resolution.

* When you set to [Error Diffusion], the fixing of the toner and stability of the texture may be reduced.

[Matching Method]
Select the correction method of the color tone for printing.
When you select [Vivid Photo], the color tone is corrected to deeper and more vivid colors than with [General].

Receiving and Printing I-Faxes

864Y-042



I-Fax (Internet Fax) is a function for sending and receiving faxes via the Internet.
The machine cannot send I-Faxes, but it can receive and print I-Faxes.
The machine for sending I-Faxes must support I-Fax technology.
When there is an I-Fax, it is automatically received from the set mail server and then it is printed automatically once receiving is completed.
You can change the paper size to print and configure the settings to print on both sides of the paper. **Changing the Print Settings of the Received I-Fax(P. 184)**

Required Preparations

- On the machine, configure the settings of the e-mail server to be used to receive I-Faxes. **Preparing to Receive and Print I-Faxes(P. 161)**

■ Manually Receiving I-Faxes

If you want to connect to the server before receiving I-Faxes automatically, or if the machine is set to not receive I-Faxes automatically, you can receive I-Faxes manually.

1 **On the operation panel, press [Status Monitor] in the [Home] screen.** **[Home] Screen(P. 97)**

➡ The [Status Monitor] screen is displayed.

2 **Press [RX Job] ▶ [Check I-Fax RX].**

➡ The machine connects to the server. When you receive an I-Fax, printing starts automatically.

Changing the Print Settings of the Received I-Fax

864Y-043

Received I-Faxes are printed on A4 size paper on one side by default. You can change the settings to print on both sides and on different size paper.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Function Settings] to configure the settings. **[E-Mail Settings](P. 379)**
Administrator privileges are required.

1 **Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)**

2 **On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)**

3 **Click [RX Settings] ▶ [E-Mail Settings] ▶ [Edit].**

➡ The [Edit E-Mail Settings] screen is displayed.

4 **Change the print settings.**

[Print on Both Sides]

Select this checkbox to print on both sides of the paper.

[RX Print Size]

Select the paper size for printing the received data.

5 **Click [OK].**

➡ The settings are applied.

6 **Log out from Remote UI.**

Canceling Printing

864Y-045

You can cancel printing from a computer. To cancel printing after the print data has been sent to the machine, use the operation panel or Remote UI.
To cancel printing when using Memory Media Print, use the operation panel or Remote UI.

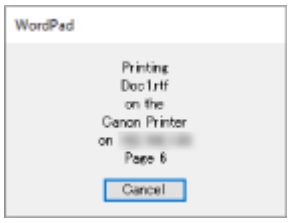
Canceling Printing from a Computer(P. 185)
Canceling Printing with the Operation Panel(P. 186)
Canceling Printing with Remote UI(P. 186)

Canceling Printing from a Computer

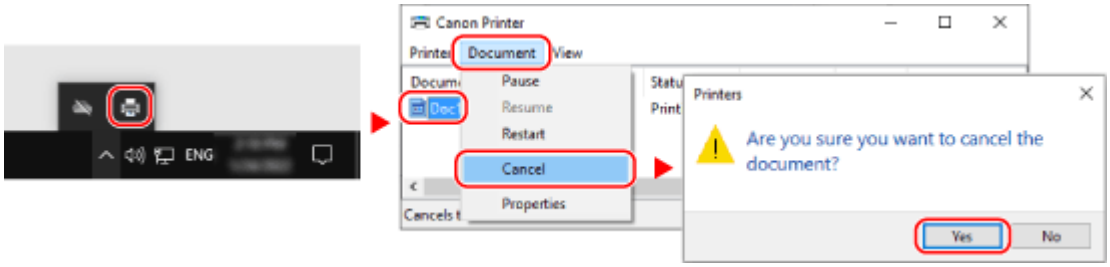
When Using Windows(P. 185)
When Using macOS(P. 185)

■When Using Windows

If the printing screen is displayed, click [Cancel].



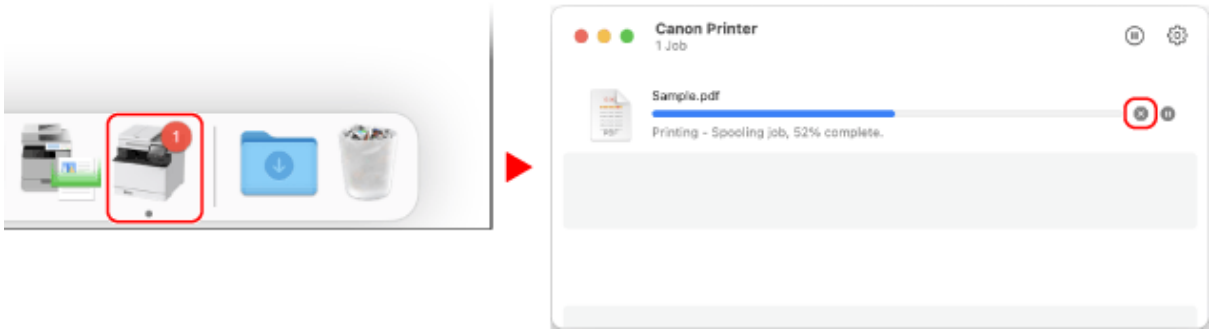
If the above screen is not displayed, double-click the printer icon in the Windows notification area, select the document to cancel, and click [Document] ▶ [Cancel] ▶ [Yes].



If the printer icon is not displayed in the Windows notification area or the document to be canceled is not displayed, the print data is sent to the machine after being processed on the computer.
In this case, cancel printing using the operation panel of the machine or Remote UI. **Canceling Printing with the Operation Panel(P. 186)**

■When Using macOS

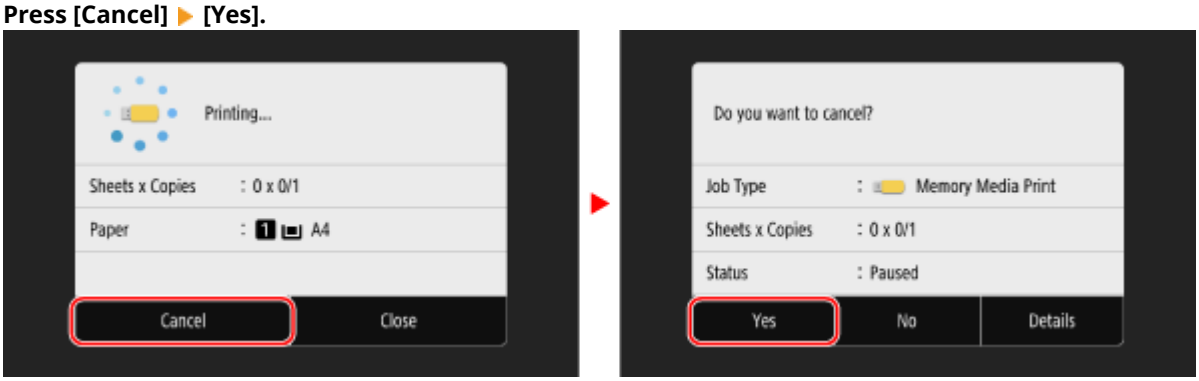
Click the printer icon in the Dock, select the document to cancel, and click [⊗].



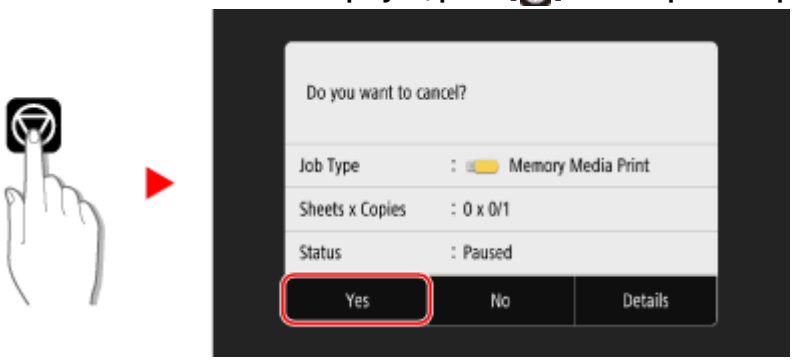
Canceling Printing with the Operation Panel

Follow the instructions on screen to cancel printing.

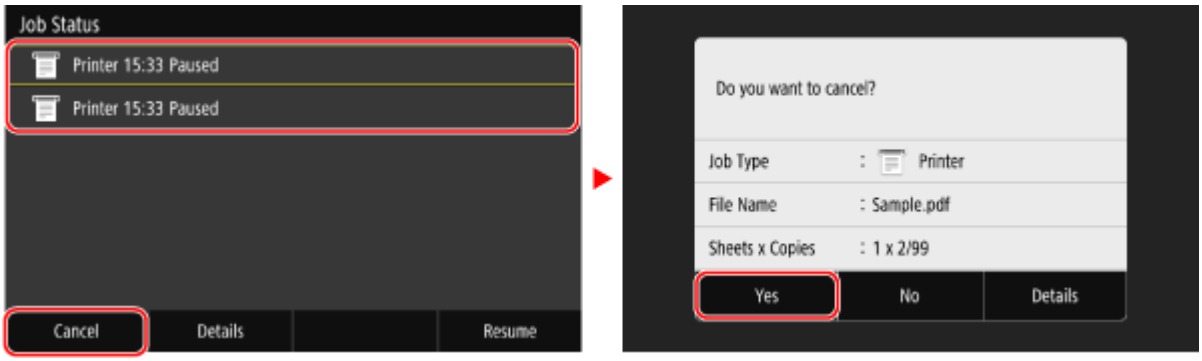
Press [Cancel] ▶ [Yes].



If the above screen is not displayed, press [ ] on the operation panel ▶ [Yes].



If the job list screen is displayed, select the job to cancel, and press [Cancel] ▶ [Yes].



Canceling Printing with Remote UI

You can cancel printing with [Status Monitor/Cancel] ▶ [Job Status] screen in [Print] of Remote UI. **Checking Usage and Logs with Remote UI(P. 282)**

Viewing the Print Job Status and Log

864Y-046

Processes handled by the machine, including printing, are managed as jobs. By checking the status and log of jobs, you can determine whether a print job was performed correctly and the cause of errors that occurred.
* If the log is set to not be displayed, you can only check the print job status. **[Display Job Log](P. 389)**

This section describes how to view this information using the operation panel.
You can also check this information using Remote UI from a computer. **Checking Usage and Logs with Remote UI(P. 282)**

1 On the operation panel, press [Status Monitor] in the [Home] screen or other location. **[Home] Screen(P. 97)**

➡ The [Status Monitor] screen is displayed.

2 Press [Print Job].

3 Check the print job status and log on the [Print Job Status] or [Print Job Log] tab.

■Viewing the Print Job Status

1. On the [Print Job Status] tab, check the job being processed or waiting to be processed.
2. Select a job to view its details.

   ➡ The job details are displayed.
3. View the file name, user name, and other information.
   Depending on the type of characters being used, the file name and user name may not be correctly displayed.

■Viewing the Print Job Log

1. On the [Print Job Log] tab, check the completed print jobs.
2. Select a job to view its details.

   ➡ The job details are displayed.
3. View the file name, user name, and other information.
   Depending on the type of characters being used, the file name and user name may not be correctly displayed.

If Print Job Log Displays Error Information

Printing was canceled, or an error occurred.
If a three-digit number starting with "#" (error code) is displayed, you can check the cause and solution using the error code. **An Error Code Is Displayed(P. 502)**

Linking with Mobile Devices

Linking with Mobile Devices 189
Preparations for Linking with Mobile Devices 191
Preparations for Direct Connection 192
Preparations for Using AirPrint 194
Connecting a Mobile Device to the Machine 197
Connecting a Mobile Device via Wireless LAN Router (LAN Connection) 198
Connecting a Mobile Device Directly to the Machine (Direct Connection) 199
Using a Dedicated Application to Print (Canon PRINT Business) 202
Using AirPrint Application to Print Data 203
Printing from an Android Device 206
Printing from Chromebook or Other Device with Chrome OS 208

Linking with Mobile Devices

864Y-047

The machine can be operated from a smartphone, tablet, or other mobile device. By using a compatible application or service, you can easily print photos or documents through a mobile device.

The applications and services that are available vary depending on the mobile device you are using.

iPhone, iPad, iPod touch, Mac

Canon PRINT Business (iPhone, iPad only)
Dedicated Canon application. It also supports Department ID Management.
Using a Dedicated Application to Print (Canon PRINT Business)(P. 202)

AirPrint
This function is standard in Apple operating systems. You can print from applications that support AirPrint instead of having to install a dedicated application or driver.
In addition, you can use AirPrint to print from a Mac.
Preparations for Using AirPrint(P. 194)
Using AirPrint Application to Print Data(P. 203)

Android Devices

Canon PRINT Business
Dedicated Canon application. It also supports Department ID Management.
Using a Dedicated Application to Print (Canon PRINT Business)(P. 202)

Canon Print Service
Dedicated Canon plugin. Enables printing from any application. It also supports Department ID Management.
Using a Dedicated Plugin to Print (Canon Print Service)(P. 206)

Mopria ® Print Service
Common plugin for Mopria® certified printers and multifunction machines. Enables printing from any application without having to install a dedicated plugin or application for individual manufacturers.
Using a Common Plugin to Print (Mopria® Print Service)(P. 206)

Default Print Service
This function is standard in the OS. It enables printing from any application without having to install a dedicated application or plugin.
Printing with the Function Standard in the OS (Default Print Service)(P. 207)

Chromebook or Other Device with Chrome OS

You can use the function standard equipped in the Chrome operating system to print without having to install a dedicated application or printer driver.
Printing from Chromebook or Other Device with Chrome OS(P. 208)

IMPORTANT

When Applying a Security Policy

- When [Restrict IPP Port (Port Number: 631)] or [Restrict mDNS Port (Port Number: 5353)] is enabled, you cannot use AirPrint and Mopria® Print Service. **Security Policy Items(P. 269)**

■ See Also

Managing the Machine from a Mobile Device (Remote UI)
You can use Remote UI from a Web browser on a mobile device. With Remote UI, you can check the operation status of the machine and change the machine settings. For details about starting and operating Remote UI, see the instructions for using Remote UI on a computer.
Managing the Machine from a Computer (Remote UI)(P. 276)

* Some display items are omitted in the mobile version of Remote UI. To check all items, tap [PC Version] at the bottom of the screen and switch to the computer version of Remote UI.

Preparations for Linking with Mobile Devices

864Y-048

To directly connect a mobile device to the machine or to use AirPrint, you must first configure the settings on the machine.

Preparations for Direct Connection(P. 192)
Preparations for Using AirPrint(P. 194)

Preparations for Direct Connection

864Y-049

Enable the Direct Connection function on the machine. If the machine is not connected to a network, you need to check the Network Connection Type settings.

Enabling the Direct Connection Function(P. 192)
Checking the Network Connection Type of the Machine(P. 193)

Enabling the Direct Connection Function

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. **[Direct Connection Settings](P. 310)**
Administrator privileges are required. The machine must be restarted to apply the settings.

1 Log in to Remote UI in System Manager Mode. **Starting Remote UI(P. 277)**

2 On the Portal page of Remote UI, click [Settings/Registration]. **Portal Page of Remote UI(P. 280)**

3 Click [Network Settings] ▶ [Direct Connection Settings] ▶ [Edit].

➡ The [Edit Direct Connection Settings] screen is displayed.

4 Select the [Use Direct Connection] checkbox.

5 Configure the Direct Connection function, as needed.

When connecting multiple mobile devices at the same time, you must specify the SSID and network key.

■To Terminate the Connection Automatically

Select the [Terminate Direct Connection Session] checkbox, and enter the time period of the direct connection until it is terminated. When multiple mobile devices are connected, they will be disconnected after the time period elapses since the last started connection.

■To Change the IP Address for Connection

In [IP Address for Direct Connection], enter any IP address.

■To specify the SSID and Network Key (When Connecting Multiple Mobile Devices at the Same Time)

By default, the SSID and network key of the machine are automatically assigned a random character string each time direct connection is performed.
To specify the SSID and network key manually, in [Access Point Mode Settings], select the [Specify SSID to Use] or [Specify Network Key to Use] checkbox, and enter an SSID or network key using single-byte alphanumeric characters.

■To Allow Mobile Devices to Always Connect to the Machine

By default, you must use the operation panel to put the machine into waiting state when you want to establish a direct connection.

To allow mobile devices to always connect to the machine, in [Access Point Mode Settings], specify the SSID and network key, and select the [Always Keep Enabled If SSID/Network Key Is Specified] checkbox in [Keep Connection Enabled].

6 Click [OK].

7 Restart the machine. Restarting the Machine(P. 90)

➡ The settings are applied.

Checking the Network Connection Type of the Machine

If the machine is not connected to a network (wired or wireless LAN), check that the network connection type is set to wired LAN.
If the machine is connected to a network, you do not have to check this.

1 On the operation panel, press [Status Monitor] in the [Home] screen or other location. [Home] Screen(P. 97)

➡ The [Status Monitor] screen is displayed.

2 Press [Network Information] ▶ [Network Connection Type].

➡ The [Network Connection Type] screen is displayed.

3 Check that [Wired LAN] is displayed.

If the connection type is set to wired LAN, you can establish a direct connection even if the machine is not connected to a network.

■When [Wireless LAN] Is Displayed in [Connection Type]

When the machine is not connected to a wireless LAN, a direct connection cannot be established. Connect the machine to a wireless LAN or switch the connection type to wired LAN.
Connecting to a Wireless LAN(P. 50)
Selecting Wired or Wireless LAN(P. 48)

Preparations for Using AirPrint

864Y-04A

Set the basic information that is required to use AirPrint. Configure the settings related to the functions and security that will be used, according to your usage and environment.

Setting the Basic Information of AirPrint(P. 194)
Setting the Functions and Security to Be Used with AirPrint(P. 195)

NOTE

When Using Department ID Management

- Department IDs cannot be set with AirPrint. To use AirPrint while using Department ID Management, configure the settings so as not to restrict the following operations: **Enabling Department ID Management(P. 218)**
  - Printing from a computer with an unknown Department ID

Setting the Basic Information of AirPrint

Configure these settings using Remote UI from a computer. You cannot use the operation panel to configure the settings.
Administrator privileges are required.

1 Log in to Remote UI in System Manager Mode. **Starting Remote UI(P. 277)**

2 On the Portal page of Remote UI, click [Settings/Registration]. **Portal Page of Remote UI(P. 280)**

3 Click [Network Settings] ▶ [AirPrint Settings] ▶ [Edit].

➡ The [Edit AirPrint Settings] screen is displayed.

4 Select the [Use AirPrint] checkbox, and enter the printer name.

- For the printer name, enter a name to identify the machine, using single-byte alphanumeric characters.
- If mDNS of IPv4 is set, the mDNS name is entered for the printer name. If you change the printer name, the mDNS name is also changed.

  * When you change the set printer name or mDNS name, the Mac that was connected to the machine may no longer be able to connect to it. In this case, you must register the machine on the Mac.

5 Enter the location and longitude and latitude of the machine, as needed.

If the location of the machine is set in [Settings/Registration] ▶ [Device Management] ▶ [Device Information Settings], the same character string is entered in the location. When you change the location in AirPrint Settings, the location in Device Information Settings is also changed.

6 Click [OK].

➡ The settings are applied.

7 Log out from Remote UI.

NOTE

- When the AirPrint function is enabled, the following network settings are also enabled:
  - **[Use HTTP](P. 322)**
  - **[IPP Print Settings](P. 321)**
  - **[mDNS Settings](P. 320)**

Setting the Functions and Security to Be Used with AirPrint

AirPrint uses the IPP protocol.
You can configure the settings to encrypt communication with TLS and configure IPP authentication when using the protocol.

Configure these settings using Remote UI from a computer. You cannot use the operation panel to configure the settings.
Administrator privileges are required.

Required Preparations

- When encrypting communication with TLS, specify the key and certificate to use for TLS encrypted communication. **Using TLS(P. 230)**

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Network Settings] ▶ [IPP Print Settings] ▶ [Edit].

➡ The [Edit IPP Print Settings] screen is displayed.

4 Configure the IPP settings.

■When Restricting the Functions to Use

Clear the [Use IPP Printing] checkbox.
When you clear the checkbox, printing with AirPrint is no longer possible.

■When Encrypting Communication with TLS

Select the [Allow Only When Using TLS] or [Use TLS] checkbox.

■When Setting IPP Authentication

Select the [Use Authentication] checkbox, and set the user name to be used for IPP authentication using single-byte alphanumeric characters.

To set a password, select the [Set/Change Password] checkbox, and enter the same password in both [Password] and [Confirm] using single-byte alphanumeric characters.
Printing with AirPrint now requires authentication, and only users who know the user name and password of IPP authentication can use these functions.

5 Click [OK].

➠ The settings are applied.

6 Log out from Remote UI.

Connecting a Mobile Device to the Machine

864Y-04C

To use the machine from a mobile device, you must connect it to the machine using either of the following methods:

Connecting via Wireless LAN Router (LAN Connection)

Connect a mobile device to the machine via a wireless LAN router in the same way as you connect a computer to the machine. By configuring a mobile device to connect automatically to the wireless LAN router, you do not need to manually connect it next time.

Connecting a Mobile Device via Wireless LAN Router (LAN Connection)(P. 198)



Connecting Directly (Direct Connection)

Connect a mobile device directly to the machine via Wi-Fi. You can directly connect to the machine without using wireless LAN. You must manually connect the mobile device each time you use the machine.

Preparations for Direct Connection(P. 192)
Connecting a Mobile Device Directly to the Machine (Direct Connection)(P. 199)



Connecting a Mobile Device via Wireless LAN Router (LAN Connection)

864Y-04E

Connect a mobile device to the machine via a wireless LAN router in the same way as you connect a computer to the machine. By configuring a mobile device to connect automatically to the wireless LAN router, you do not need to manually connect it next time.



Required Preparations

- Connect the machine to the network using wireless or wired LAN. **Setting Up the Network(P. 46)**
  * When using a wired LAN, check that a wireless LAN router is connected to the same network.
- Set an IPv4 address to the machine. **Setting IPv4 Addresses(P. 61)**

Connect the mobile device to either of the following wireless LAN routers:

- A wireless LAN router connected to the machine
- (When the machine is connected to a wired LAN) A wireless LAN router on the network connected to the machine

For details about how to connect a mobile device to a wireless LAN router, see the manual of the mobile device.

Connecting a Mobile Device Directly to the Machine (Direct Connection)

864Y-04F

Connect a mobile device directly to the machine via Wi-Fi. You can directly connect it to the machine without using wireless LAN. You must manually connect the mobile device each time you use the machine.
By default, only one mobile device can be directly connected to the machine at any one time.



To establish a direct connection, you must use the operation panel to put the machine into waiting state and then connect it using either of the following methods:

Manually Configuring the Wi-Fi Settings



Search for the machine on the mobile device, and enter the network key manually to connect.

Scanning QR Codes with Canon PRINT Business



Use Canon PRINT Business to easily connect by simply scanning the QR code displayed on the screen of the machine with a mobile device.

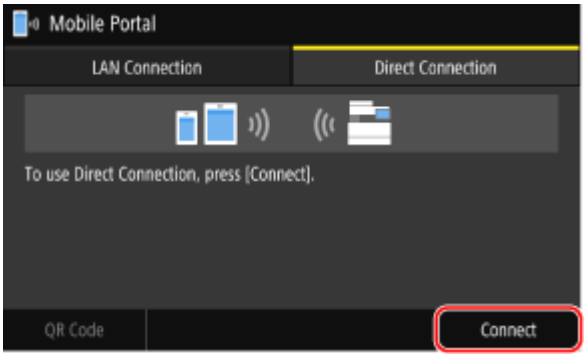
Required Preparations

- Make preparations such as enabling the Direct Connection function on the machine. **Preparations for Direct Connection(P. 192)**
- To connect by scanning the QR code, install Canon PRINT Business on the mobile device.

1 On the operation panel, press [Mobile Portal] in the [Home] screen. [Home] Screen(P. 97)

➡ The [Mobile Portal] screen is displayed.

2 On the [Direct Connection] tab, press [Connect].



➡ The machine enters waiting state for Direct Connection.

Within 5 minutes of pressing [Connect], you must directly connect the mobile device.

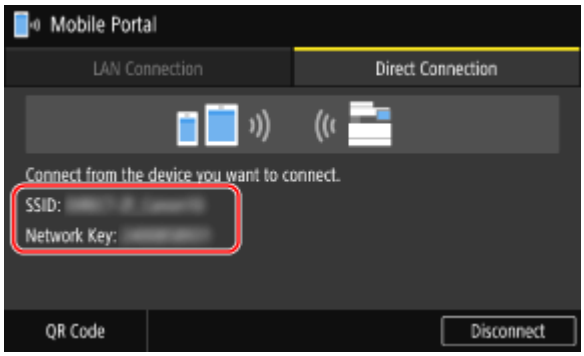
■When [Disconnect] Is Displayed

- You can skip this step when [Connect from the device you want to connect.] is displayed. Proceed to Step 3.
- When [Maximum number of wireless devices connected using Direct Connection has been reached.] is displayed, you cannot connect a new mobile device until a connected mobile device is disconnected. To disconnect a connected mobile device, press [Disconnect] ▶ [Yes].
  * By default, only one mobile device can be directly connected to the machine at any one time.

3 Directly connect the mobile device.

■Manually Configuring the Wi-Fi Settings

1. Check the SSID and network key of the machine displayed on the [Direct Connection] tab.



2. In the Wi-Fi settings of the mobile device, select the SSID of the machine, and enter the network key.
   For details about how to configure the Wi-Fi settings, see the manual of the mobile device.

■Scanning QR Codes with Canon PRINT Business

1. On the [Direct Connection] tab, press [QR Code].

   ➡ A QR code is displayed.

2. On the mobile device, start Canon PRINT Business, and scan the QR code.
   For details about scanning a QR code, see Help in Canon PRINT Business.

4 When [Connected.] appears on the operation panel, press [Close].

➡ The [Mobile Portal] screen reappears.

By default, only one mobile device can be directly connected to the machine at any one time. [Maximum number of wireless devices connected using Direct Connection has been reached.] is displayed on the screen.

5 When you have completed your operations on the mobile device, press [Disconnect] on the [Direct Connection] tab.

➡ The direct connection is terminated.
If multiple mobile devices are connected, all devices are disconnected.

IMPORTANT

- You may not be able to connect to the Internet with Direct Connection depending on the mobile device.
- The power-saving effect of sleep mode decreases when using Direct Connection.
- The IP address of the mobile device is set automatically. If you set the IP address manually, communication using Direct Connection may not be performed correctly.

NOTE

Checking a Mobile Device Connected to the Machine

- When using Direct Connection, press [Connection Info] to display the information of the mobile device connected to the machine with Direct Connection.

If the Direct Connection Is Automatically Disconnected

- The direct connection is automatically terminated in the following cases:
  - When the Direct Connection Termination is set
  - When no data is sent or received between the mobile device and the machine for a while
  - When the wireless LAN connection of the machine is terminated

Using a Dedicated Application to Print (Canon PRINT Business)

864Y-04H

You can use the dedicated Canon application Canon PRINT Business to print.
It also supports Department ID Management. Even when printing with an unknown Department ID is restricted, you can print by setting a Department ID.

Compatible Operating Systems and Download Site

See the Canon website.
https://global.canon/gomp/

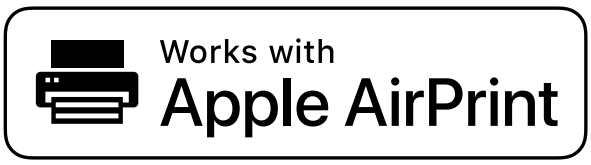
Usage

- Connect a mobile device to the machine. **Connecting a Mobile Device to the Machine(P. 197)**
- Register the machine to Canon PRINT Business.
  When the mobile device is connected to the machine via LAN, the IP address information of the machine or displaying of the QR code is required to register the machine to Canon PRINT Business. You can view the IP address and display the QR code with [Home] screen ▶ [Mobile Portal] ▶ [LAN Connection] tab.
- For details about registering the machine and printing, see the Help menu item in the application.

Using AirPrint Application to Print Data

864Y-04J

AirPrint is a print function standard in Apple operating systems. You can print from applications that support AirPrint instead of having to install a dedicated application or driver.
In addition, you can use AirPrint to print from a Mac.



When Using an iPhone, iPad, or iPod touch(P. 203)
When Using a Mac(P. 204)

IMPORTANT

When Using Department ID Management on the Machine

- You cannot use AirPrint when printing from a computer with an unknown Department ID is restricted. **Enabling Department ID Management(P. 218)**

When Using an iPhone, iPad, or iPod touch

Use AirPrint to print from an iPhone, iPad, or iPod touch connected to the machine via LAN or direct connection.

Operating Environment
You can use AirPrint with the following iPhone, iPad, and iPod touch models:

- iPhone: 3GS or later
- iPad: All models
- iPod touch: Third generation or later

Required Preparations

- Set the machine to enable use of AirPrint. **Preparations for Using AirPrint(P. 194)**
- Connect the machine to an iPhone, iPad, or iPod touch. **Connecting a Mobile Device to the Machine(P. 197)**

1 Open the data to be printed on the iPhone, iPad, or iPod touch.

2 In the application with the data to be printed open, tap [ ].

➡ The menu options are displayed.

3 Tap [Print].

➡ The print options are displayed.
If print options are not displayed, the application does not support AirPrint. In this case, you cannot use AirPrint to print data.

4 Tap [Printer], and select the machine.

5 Configure the print settings.

The available settings and usable paper sizes vary depending on the application you are using.

6 Tap [Print].

➡ Printing starts.

Use [Status Monitor] on the operation panel to view the print job status and log. **Viewing the Print Job Status and Log(P. 187)**

When Using a Mac

You can use AirPrint to print data from a Mac connected to the network on the same LAN as the machine or a Mac connected to the machine via USB.

Operating Environment
You can use AirPrint on a Mac with Mac OS X 10.7 or later*1 installed.

*1 When printing from a Mac connected to the machine via USB, OS X 10.9 or later.

Required Preparations

- Set the machine to enable use of AirPrint. **Preparations for Using AirPrint(P. 194)**
- Connect the machine to a Mac. **Setting Up the Network(P. 46)**
  When connecting via USB, connect to the USB port for computer connection on the back of the machine with a USB cable. **Rear Side(P. 15)**
- In [System Preferences] ▶ [Printers & Scanners] on the Mac, click [+] to register the machine.

Using AirPrint to Print Data(P. 204)

■ Using AirPrint to Print Data

1 Open the document you want to print on your Mac.

2 In the application used to open the document, click [Print].

➡ The printing dialog box appears.

3 In [Printer], select the machine.

4 Configure the print settings.

The available settings and usable paper sizes vary depending on the application you are using.

5 Click [Print].

➠ Printing starts.

Use [Status Monitor] on the operation panel to view the print job status and log. **Viewing the Print Job Status and Log(P. 187)**

Printing from an Android Device

864Y-04K

Install a plugin on a mobile device to enable printing from an application that has a print function.
This machine supports Canon plugins as well as Mopria®, which is supported by various manufacturers.
You can also use the function that is standard in the OS to print data without having to install a plugin.

Using a Dedicated Plugin to Print (Canon Print Service)(P. 206)
Using a Common Plugin to Print (Mopria® Print Service)(P. 206)
Printing with the Function Standard in the OS (Default Print Service)(P. 207)

Using a Dedicated Plugin to Print (Canon Print Service)

You can use the dedicated Canon plugin Canon Print Service to print from any application.
It also supports Department ID Management. Even when printing with an unknown Department ID is restricted, you can print by setting a Department ID.

Compatible Operating Systems and Download Site

See the Canon website.
https://global.canon/psmp/

Usage

- Connect a mobile device to the machine. **Connecting a Mobile Device to the Machine(P. 197)**
- Register the machine to Canon Print Service.
  When the mobile device is connected to the machine via LAN, the IP address information of the machine is required to register the machine to Canon Print Service. You can view the IP address with [Home] screen ▶ [Mobile Portal] ▶ [LAN Connection] tab.
- For details about registering the machine and the printing method, see the Canon Print Service manual in "Mobile Apps" at the online manual site.
  https://oip.manual.canon/

Using a Common Plugin to Print (Mopria® Print Service)

The machine supports Mopria® Print Service, a plugin that enables printing from any application on a Mopria® certified printer or multifunction machine.
You can print on a Mopria® certified printer available from various manufacturers, which is convenient when printing on the go, without having to install a dedicated application or plugin.

Usage

- Connect a mobile device to the machine. **Connecting a Mobile Device to the Machine(P. 197)**
- For details about how to print and Mopria® certified printers, see the following website:
  https://mopria.org/

IMPORTANT

When Using Department ID Management on the Machine

- You cannot use Mopria® Print Service to print when printing from a computer with an unknown Department ID is restricted. **Enabling Department ID Management(P. 218)**

Printing with the Function Standard in the OS (Default Print Service)

You can use the function that is standard in the OS (Default Print Service) to print from any application.
If your version of Android supports Default Print Service, you can print data without having to install a dedicated application or plugin.

Usage

- Connect a mobile device to the machine. **Connecting a Mobile Device to the Machine(P. 197)**
- Make sure that Canon Print Service and Mopria® Print Service are not installed in the mobile device or are disabled.
- For details about the supported OS and how to print, see the following website: **https://support.google.com/android/**

NOTE

- If usage of Mopria® is restricted, you cannot use Default Print Service to print. **Restricting Use from a Mobile Device(P. 257)**

Printing from Chromebook or Other Device with Chrome OS

864Y-04L

You can use a Chromebook or other device equipped with Chrome OS to print without having to install a dedicated application or printer driver.

IMPORTANT

Printing from a Chrome OS Device

- Printing from a Chrome OS device may not be supported depending on your country or region.

When Using Department ID Management on the Machine

- You cannot print from a device equipped with Chrome OS when printing from a computer with an unknown Department ID is restricted. **Enabling Department ID Management(P. 218)**

Usage

- Connect a Chromebook to the machine.
  Connecting a Mobile Device via Wireless LAN Router (LAN Connection)(P. 198)
  When connecting via USB, connect to the USB port for computer connection on the back of the machine with a USB cable. **Rear Side(P. 15)**
- For details about how to print using the Chromebook, see Chromebook Help.
  https://support.google.com/chromebook/answer/7225252

Security

Security 210
Setting the Department ID and PIN for the Administrator 211
Authenticating Users and Managing Groups 213
Authenticating Users and Managing Groups with Department ID (Department ID Management) 214
Registering a Department ID and PIN 216
Enabling Department ID Management 218
Setting the Department ID and PIN on a Computer 219
Confirming Usage by Department ID 222
Protecting the Network 223
Setting the Firewall 224
Changing the Port Number 227
Using a Proxy 228
Using TLS 230
Using IPSec 232
Using IEEE 802.1X 236
Managing and Verifying a Key and Certificate 238
Generating a Key and Certificate 239
Generating a Key and Certificate Signing Request (CSR) and Obtaining and Registering a Certificate 241
Generating a Key and Obtaining and Registering a Certificate from an SCEP Server 244
If an Error Is Displayed in the Certificate Issuance Request Status 249
Registering a Key and Certificate or CA Certificate Obtained from an Issuing Authority 251
Verifying a Received Certificate with OCSP 253
Preventing Leaking Information 254
Restricting Use of Memory Media 255
Restricting Use from a Mobile Device 257
Restricting Printing 258
Restricting Printing from a Computer to Secure Print 259
Preventing Unauthorized Use 260
Restricting Use of Remote UI 261
Preventing Connection to Computer via USB Port 263
Configuring LPD, RAW, or WSD 264
Disabling HTTP Communication 266
Applying a Security Policy 267
Security Policy Items 269

Security

864Y-04R

This machine is an information device that uses communication functions and handles various data. Therefore, it is important to provide measures to prevent unauthorized access when using the machine in a network environment and measures against security risks such as leaking information.
This machine is equipped with various functions and settings to reduce these threats and vulnerabilities. Configure the settings and use them appropriately according to your usage environment and conditions for safer operation of the machine.

Creating an Administrator System

Use an administrator account to manage the machine and configure the settings. Operate the machine using a system in which only a specific administrator(s) knows the ID and PIN.

Setting the Department ID and PIN for the Administrator(P. 211)

Managing Users and Groups

Managing the users and groups that use the machine and performing authentication of its use can prevent operation by third parties and unauthorized access.

Authenticating Users and Managing Groups(P. 213)

Network Settings

Applying the network security settings according to the usage environment can reduce the threat of unauthorized access and eavesdropping.

Protecting the Network(P. 223)

Managing Usage Status

Using a PIN and setting usage restrictions can help prevent unauthorized use of Remote UI. Implementing measures that include operations according to usage status of the machine can improve security.

Preventing Leaking Information(P. 254)
Preventing Unauthorized Use(P. 260)

Integrated Management Using a Security Policy

Applying a security policy that exists for other devices to this machine can allow for sharing of the information security level within your organization.

Applying a Security Policy(P. 267)

Setting the Department ID and PIN for the Administrator

864Y-04S

Set the System Manager ID and System Manager PIN to create an administrator account.
By creating an administrator account, only those users who know these credentials can log in to System Manager Mode to view and change important settings. **System Manager ID and PIN(P. 9)**

This section describes how to configure the settings using the operation panel.
You can also configure the settings using Remote UI from a computer after the System Manager ID and PIN have been set on the machine. **Managing the Machine from a Computer (Remote UI)(P. 276)**
Administrator privileges are required.

1 **On the operation panel, press [Menu] in the [Home] screen.** **[Home] Screen(P. 97)**

2 **Press [Management Settings] ▶ [User Management] ▶ [System Manager Information Settings].**

➡ The [System Manager Information Settings] screen is displayed.

If the login screen appears, enter the currently set System Manager ID and PIN, and then press [Log In].

3 **Press [System Manager ID and PIN], enter the System Manager ID, and press [Apply].**

Specify any number. You cannot set a System Manager ID consisting of all zeros, such as "00" or "0000000."

4 **Enter the System Manager PIN, and press [Apply].**

Specify any number other than "7654321." You cannot set a PIN consisting of all zeros, such as "00" or "0000000."

5 **Enter the PIN again, and press [Apply].**

➡ The settings are applied.

IMPORTANT

- Do not forget the System Manager ID and PIN. If you forget your System Manager ID and PIN, contact your dealer or service representative. **If the Problem Persists(P. 507)**

NOTE

Setting the System Manager Information

- On the [System Manager Information Settings] screen, press [System Manager Name] to set the name of the system manager.
- You can also configure the e-mail address and other system manager information by using Remote UI from a computer.
  - The set information is displayed in [Status Monitor/Cancel] ▶ [Device Information] of Remote UI. **Checking Usage and Logs with Remote UI(P. 282)**

- The set e-mail address becomes the destination that is selected by clicking [Mail to System Manager] on the Portal page of Remote UI. **Portal Page of Remote UI(P. 280)**

Clearing the System Manager ID and PIN Settings

- Clear the entered values of the System Manager ID and PIN, and then click [Apply] with the fields left empty.

Authenticating Users and Managing Groups

864Y-04U

Managing the users and groups that use the machine can prevent operation by third parties and unauthorized access.

Department ID Management
Use Department ID Management to manage users for all functions of the machine. Only users who know the Department ID and PIN can use the machine. It is also possible to track usage of the machine by Department ID to help with managing costs.
Authenticating Users and Managing Groups with Department ID (Department ID Management) (P. 214)

Authenticating Users and Managing Groups with Department ID (Department ID Management)

864Y-04W

Department ID Management is a function for managing users and groups by allocating a Department ID to each user or group.
When using Department ID Management, it is recommended to create an administrator account and a system for management and operation by a specific user.

What You Can Do with Department ID Management(P. 214)
Operation Examples(P. 214)
Department ID Management Procedure(P. 215)

What You Can Do with Department ID Management

By using Department ID Management, you can do the following:

Enhance Security

- Set a PIN for Department ID to require authentication by entering the Department ID and PIN when a user logs in.
- Restrict operations for an unknown Department ID.

Monitor Device Usage and Manage Costs

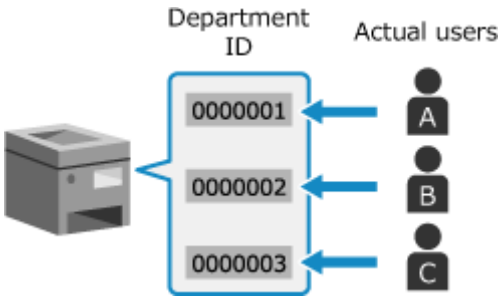
- Tally and keep track of the number of printed pages by Department ID.
- Set the maximum number of pages that can be printed by Department ID to control the number of sheets of paper that can be used.
- Restrict the functions of the machine by Department ID.

Operation Examples

Assign Department IDs to users and groups according to usage environment and purpose. In addition, setting a PIN to a Department ID can prevent unauthorized access and enable stricter management.

Example 1: Managing individual users by assigning them each a Department ID

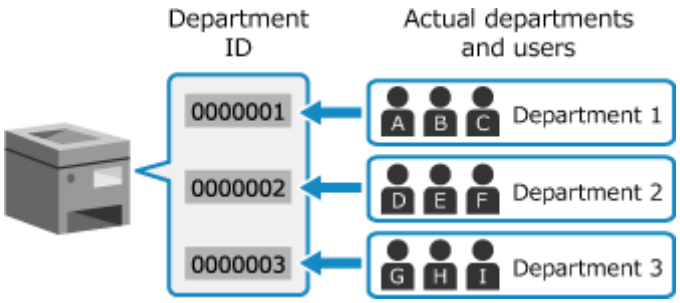
Use this method to manage individual users by assigning them each a separate Department ID.
This is useful when there are few people who use the machine and you want to limit the number of pages to be printed and function access for each user.
Users log in with their own Department ID.



Example 2: Managing users as a group

Use this method to manage multiple users in a group by assigning each group a separate Department ID.
This is useful when there are many people or groups that use the machine, such as office departments and school classes.

Users log in with the Department ID of the group to which they belong.



Department ID Management Procedure

To use Department ID Management, follow the procedure below.
Administrator privileges are required.

Step 1	**Set up Department ID Management.** **Setting the Department ID and PIN for the Administrator(P. 211)** **Registering a Department ID and PIN(P. 216)**
Step 2	**Start Department ID Management.** Restrict operations for unknown Department IDs, as needed. **Enabling Department ID Management(P. 218)**
Step 3	**Set the Department ID and PIN on each computer using the machine.** **Setting the Department ID and PIN on a Computer(P. 219)**
Step 4	**Perform Department ID Management.** **Confirming Usage by Department ID(P. 222)**

Registering a Department ID and PIN

864Y-04X

Register the Department ID used by a group or user to be managed.
To perform authentication at login, set a PIN.
Limit the number of pages that can be printed and usable functions for each Department ID, as needed.

This section describes how to register a Department ID and PIN using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Management Settings] to register this information. **[Department ID Management](P. 388)**
Administrator privileges are required.

1 **Log in to Remote UI in System Manager Mode.** **Starting Remote UI(P. 277)**

2 **On the Portal page of Remote UI, click [Settings/Registration].** **Portal Page of Remote UI(P. 280)**

3 **Click [User Management] ▶ [Department ID Management].**

➡ The [Department ID Management] screen is displayed.

4 **Click [Register New Department].**

➡ The [Register New Department] screen is displayed.

5 **In [New Department], set the Department ID and PIN.**

- Enter numbers in [Department ID].
- To set a PIN, select the [Set PIN] checkbox, and enter the same number in [PIN] and [Confirm].

  * You cannot set a Department ID or PIN consisting of all zeros, such as "00" or "0000000."

6 **Configure [Restrict Functions] as needed.**

- To limit the number of pages that can be printed, select the desired item and enter the maximum number of pages in [Number of Pages].
- To restrict the usable functions, select the items you want to restrict.

7 **Click [OK].**

➡ The registered Department ID is added to [Department ID Page Total] on the [Department ID Management] screen.

8 **Log out from Remote UI.**

NOTE

Editing a Registered Department ID

- To edit the registered information, click the Department ID you want to edit in [Department ID Page Total] on the [Department ID Management] screen.

Enabling Department ID Management

864Y-04Y

After registering a Department ID, configure the settings to enable Department ID Management. Once Department ID Management is started, a login screen appears when operating the machine.

By default, printing from a computer can be operated without having to log in.
You can also restrict the operation as needed.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Management Settings] to configure the settings. **[Department ID Management](P. 388)**
Administrator privileges are required.

1 **Log in to Remote UI in System Manager Mode.** **Starting Remote UI(P. 277)**

2 **On the Portal page of Remote UI, click [Settings/Registration].** **Portal Page of Remote UI(P. 280)**

3 **Click [User Management] ▶ [Department ID Management] ▶ [Edit].**

➡ The [Edit Department ID Management] screen is displayed.

4 **Select the [Department ID Management] checkbox.**

5 **To restrict printing from a computer with an unknown Department ID, clear the item.**

Clear the [Allow Print Jobs with Unknown IDs] checkbox.

* When this checkbox is cleared, you must set the Department ID on the driver to be able to print from a computer. **Setting the Department ID and PIN on a Computer(P. 219)**

6 **Click [OK].**

➡ The settings are applied.

7 **Log out from Remote UI.**

Setting the Department ID and PIN on a Computer

864Y-050

When restricting printing from a computer with an unknown Department ID, you must set the Department ID and PIN on each computer using the machine. If you want to include printing from a computer in the usage for each Department ID even when these are not restricted, set the Department ID and PIN for each computer.

When Using Windows(P. 219)
When Using macOS(P. 220)

■When Using Windows

Administrator privileges are required on each computer.

1 Log on to the computer using an administrator account.

2 Click [ ] (Start) ▶ [ ] (Settings) ▶ [Devices] ▶ [Printers & scanners].

➠ The [Printers & scanners] screen is displayed.

3 Click the driver of the machine ▶ [Manage] ▶ [Printer properties].

➠ The driver properties screen is displayed.

4 On the [Device Settings] tab, set [User Management] to [Department ID Management].

5 Click [Settings] at the bottom right.

➠ The [Department ID/PIN Settings] screen is displayed.

6 Set the Department ID and PIN.

- To set a PIN, select the [Allow PIN Settings] checkbox, and enter a PIN.
- Click [Verify] to confirm that the Department ID and PIN have been entered correctly.
  * This is not available when the machine is connected to the computer via the USB or Web Services on Devices (WSD) port.

7 Set the authentication process and applicable range, as needed.

■Confirming the Department ID and PIN when printing

Select the [Confirm Department ID/PIN When Printing] checkboxes.

■Black & White printing without setting a Department ID

Select the [Do Not Use Department ID Management When B&W Printing] checkbox.

* If this setting is selected while restricting printing from a computer with an unknown Department ID using the settings on the machine, Black & White printing cannot be performed during Department ID Management.

■When the machine is connected to the computer via the USB or WSD port

Select the [Authenticate Department ID/PIN at Device] checkbox.

8 Click [OK] ▶ [OK].

➡ The settings are applied.

■When Using macOS

1 Click [ ] ▶ [System Preferences] ▶ [Printers & Scanners].

➡ The [Printers & Scanners] screen is displayed.

2 Select the machine, and click [Options & Supplies].

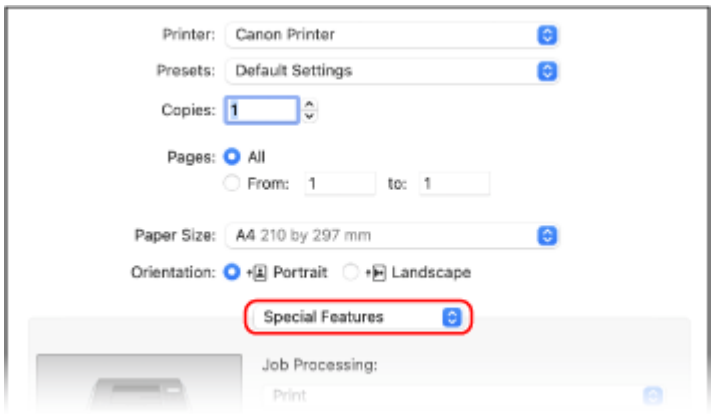
3 On the [Options] tab, select the [Department ID Management] checkbox, and click [OK].

4 On the driver setting screen, set the Department ID and PIN.

You must set the Department ID and PIN each time you print.

1 Display the printing dialog box, and select the printer driver of the machine. **Printing from a Computer(P. 163)**

2 From the print options pop-up menu, select [Special Features].



If print options are not displayed, click [Show Details] in the printing dialog box.

3 Select the [Use Department ID Management] checkbox, and click [Settings].

➡ The [Department ID/PIN Settings] screen is displayed.

4 Enter the Department ID and PIN.

5 Set the authentication process and applicable range, as needed.

Confirming the Department ID and PIN when printing

Select the [Confirm Department ID/PIN When Printing] checkbox.

Black & White printing without setting a Department ID

Select the [Do Not Use Department ID Management When B&W Printing] checkbox.
* If this setting is selected while restricting printing from a computer with an unknown Department ID using the settings on the machine, Black & White printing cannot be performed during Department ID Management.

6 Click [OK].

Confirming Usage by Department ID

864Y-051

You can view the number of pages printed for each Department ID when Department ID Management is enabled.

This section describes how to view this information using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Management Settings] to view this information. **[Department ID Management](P. 388)**
Administrator privileges are required.

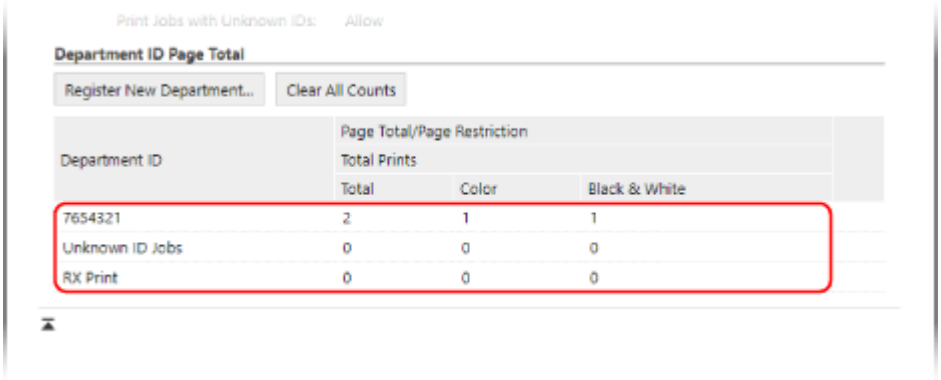
1 **Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)**

2 **On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)**

3 **Click [User Management] ▶ [Department ID Management].**

➠ The [Department ID Management] screen is displayed.

4 **In [Department ID Page Total], view the usage.**



■Resetting the count for a specific Department ID only

For the Department ID with the count to reset, click [Clear Count] ▶ [OK].

■Resetting the count for All Department IDs

Click [Clear All Counts] ▶ [OK].

5 **Log out from Remote UI after viewing the usage.**

Protecting the Network

864Y-052

Connecting the machine to a network allows you link it to computers and mobile devices for more convenient operations. However, this also creates risks of unauthorized access and eavesdropping over the network.
By configuring the security settings according to your network environment, you can reduce these risks to ensure safer use of the machine.

Filtering Using the Firewall Settings

Allows communications only with devices that have a specific IP address or MAC address to prevent unauthorized access.

Setting the Firewall(P. 224)

Port Control

If the port number being used by a communicating device, such as a computer or server, is changed, change the setting on the machine too. In addition, if it is clear that there is an unneeded protocol, use of the protocol is prohibited on the machine and that port is closed to prevent intrusion from the outside.

Changing the Port Number(P. 227)

Using a Proxy Server

Using a proxy server to connect the machine to a network not only facilitates managing communication with external networks but blocks unauthorized access and consolidates anti-virus protection for enhanced security.

Using a Proxy(P. 228)

Encryption of Communication Using TLS

You can use TLS to encrypt communication when using Remote UI. This reduces the risks of data eavesdropping and tampering during communication.

Using TLS(P. 230)

Encryption of Communication Using IPSec

Use Internet Protocol Security (IPSec) to encrypt data at the IP protocol level. This reduces the risk of data eavesdropping and tampering during communication without relying on an application or network configuration.

Using IPSec(P. 232)

Using the Machine in a Network with IEEE 802.1X Authentication

When connecting the machine to a network that uses IEEE 802.1X authentication, you must configure the settings on the machine such as the authentication method managed by the authentication server.

Using IEEE 802.1X(P. 236)

Managing and Verifying the Key and Certificate

You can generate a key and certificate used to encrypt communication and register a key and certificate obtained from a certification authority. By configuring the settings to check the revocation status of a certificate (using OCSP), you can check to see if a certificate received from a certification authority has been revoked.

Managing and Verifying a Key and Certificate(P. 238)

■ See Also

For the network settings at setup, see the following.

Configuring Your Machine for Your Network Environment(P. 65)

Setting the Firewall

864Y-053

Set up the packet-filtering firewall to prevent unauthorized access.
First, as a prerequisite, set whether to allow or block communication with other devices. Next, specify the IP addresses or MAC addresses of devices you want to block or allow as exceptions.
For the number of addresses that can be specified and the protocols whose communication can be restricted, see the firewall specifications. **Firewall(P. 33)**

Setting IP Address Filtering(P. 224)
Setting MAC Address Filtering(P. 225)

IMPORTANT

- MAC address filtering is not available when connecting the machine to a wireless LAN.
- Multicast and broadcast addresses are not restricted even when the setting is configured to block the sending of data from the machine to other devices.

Setting IP Address Filtering

Set IPv4 address filtering or IPv6 address filtering according to your usage environment.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. However, the operation panel can only be used to enable or disable the filter. **[Firewall Settings](P. 313)**
Administrator privileges are required. The machine must be restarted to apply the settings.

IMPORTANT

- If you set an incorrect IP address, you will no longer be able to access Remote UI. If this happens, use the operation panel to disable the firewall settings, and then use Remote UI to set the IP address again.

1 **Log in to Remote UI in System Manager Mode.** **Starting Remote UI(P. 277)**

2 **On the Portal page of Remote UI, click [Settings/Registration].** **Portal Page of Remote UI(P. 280)**

3 **Click [Network Settings] ▶ [Firewall Settings].**

➡ The [Firewall Settings] screen is displayed.

4 **Click [Edit] for the IP address send or receive filter.**

- To restrict sending of data from the machine to other devices, click [Edit] for the send filter.
- To restrict receiving of data from other devices, click [Edit] for the receive filter.

5 **Select the [Use Filter] checkbox.**

➡ The IP address is enabled.

6 **In [Default Policy], set the filtering prerequisites.**

As a filtering prerequisite, select whether to allow or block communication with other devices.

7 **Register [Exception Addresses].**

- In [Address to Register], enter an IP address, and then click [Add].
- You can also specify a range of IP addresses by using a hyphen (-) or prefix length.

Input example:

- **One IPv4 address**
  192.168.0.10
- **One IPv6 address**
  fe80::10
- **Specifying a range**
  192.168.0.10-192.168.0.20
  192.168.0.32/27
  fe80::1234/64

8 **Click [OK].**

9 **Restart the machine. Restarting the Machine(P. 90)**

➡ The settings are applied.

Setting MAC Address Filtering

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. You cannot use the operation panel to configure some of the settings. **[Firewall Settings](P. 313)**
Administrator privileges are required. The machine must be restarted to apply the settings.

IMPORTANT

- If you set an incorrect MAC address, you will no longer be able to access Remote UI. If this happens, use the operation panel to disable the firewall settings, and then use Remote UI to set the MAC address again.

1 **Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)**

2 **On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)**

3 Click [Network Settings] ▶ [Firewall Settings].

➡ The [Firewall Settings] screen is displayed.

4 Click [Edit] for the MAC address send or receive filter.

- To restrict sending of data from the machine to other devices, click [Edit] for the send filter.
- To restrict receiving of data from other devices, click [Edit] for the receive filter.

5 Select the [Use Filter] checkbox.

➡ The MAC address is enabled.

6 In [Default Policy], set the filtering prerequisites.

As a filtering prerequisite, select whether to allow or block communication with other devices.

7 Register [Exception Addresses].

- In [Address to Register], enter a MAC address, and then click [Add].
- Enter MAC addresses without separating with hyphens (-) or colons (:).

Input example:
123A456B789C

8 Click [OK].

9 Restart the machine. Restarting the Machine(P. 90)

➡ The settings are applied.

Changing the Port Number

864Y-054

Typically, conventional port numbers are used for major protocols, but these port numbers may be changed to enhance security. As the port numbers must be the same on communicating devices, such as a computer or server, when the port number is changed, the setting on the machine also needs to be changed.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. **[Port Number Settings](P. 322)**
Administrator privileges are required. The machine must be restarted to apply the settings.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Network Settings] ▶ [Port Number Settings] ▶ [Edit].

➡ The [Edit Port Number Settings] screen is displayed.

4 Change the port number of the protocol, and click [OK].

5 Restart the machine. Restarting the Machine(P. 90)

➡ The settings are applied.

NOTE

Protocol Settings

- For the protocol settings and settings of the functions using the protocol, see the following:
  LPD/RAW/WSD **Configuring LPD, RAW, or WSD(P. 264)**
  HTTP **Disabling HTTP Communication(P. 266)**
  POP3 **Preparing to Receive and Print I-Faxes(P. 161)**
  Multicast Discovery **Configuring SLP Communication(P. 77)**
  SNMP **Configuring SNMP(P. 72)**

Changing the Port Number of the Proxy Server

- To change the port number of the proxy server, see the following:
  Using a Proxy(P. 228)

Changing the Port Number of the Printer Driver (Windows)

- When the port number of the print protocol (LPD or RAW) is changed on the machine, change the port number setting on the computer too. **Configuring a Printer Port (Windows)(P. 149)**

Using a Proxy

864Y-055

Using a proxy server to connect to a network not only facilitates managing communications with external networks but blocks unauthorized access and consolidates anti-virus protection for enhanced security.

Configure these settings using Remote UI from a computer. You cannot use the operation panel to configure the settings.
Administrator privileges are required.

Required Preparations

- Prepare the address, port number, and authentication information of the proxy server.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Network Settings] ▶ [Proxy Settings] ▶ [Edit].

➡ The [Edit Proxy Settings] screen is displayed.

4 Select the [Use Proxy] checkbox.

5 Enter the address and port number of the proxy server.

- In [HTTP Proxy Server Address], enter the IP address and host name.
- In [HTTP Proxy Server Port Number], enter the port number.

6 Set the applicable range and authentication information according to your usage environment.

■When using a proxy server also specified for communication with devices on the same domain

Select the [Use Proxy within Same Domain] checkbox.

■When authentication is required to connect to a proxy server

Select the [Use Proxy Authentication] checkbox, and enter the user name to be used for authentication using single-byte alphanumeric characters.
To set a password to use for authentication, select the [Set/Change Password] checkbox, and enter the password using single-byte alphanumeric characters.

7 Click [OK].

➡ The settings are applied.

8 **Log out from Remote UI.**

Using TLS

864Y-056

Transport Layer Security (TLS) is a mechanism for encrypting data sent or received over the network. Encrypting communication with TLS when using Remote UI reduces the risks of data eavesdropping and tampering during communication.
To use TLS encrypted communication for Remote UI, specify the key and certificate (server certificate) you want to use, and then enable TLS on Remote UI.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Management Settings] to configure the settings. However, the operation panel can only be used to enable or disable TLS on Remote UI. **[Remote UI] (P. 392)**
Administrator privileges are required. The machine must be restarted to apply the settings.

Required Preparations

- Prepare the key and certificate to use for TLS encrypted communication. **Managing and Verifying a Key and Certificate(P. 238)**

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 In [Network Settings], click [TLS Settings].

➡ The [TLS Settings] screen is displayed.

4 Specify the key and certificate to use for TLS encrypted communication.

1. In [Key and Certificate Settings], click [Key and Certificate].

   ➡ The [Key and Certificate Settings] screen is displayed.

2. To the right of the key and certificate to use, click [Register Default Key].
   - When you click the key name (or certificate icon), the certificate details appear.
   - On the certificate details screen, click [Verify Certificate] to verify that the certificate is valid.

5 Set the TLS version and algorithm.

1. Click [TLS Details] ▶ [Edit].

   ➡ The [Edit TLS Details] screen is displayed.

2. Set the usable version and algorithm, and click [OK].
   Some combinations of versions and algorithms cannot be used. For the supported combinations of versions and algorithms, see the TLS specifications. **TLS(P. 36)**

   [Allowed Versions]

Specify the maximum and minimum versions of TLS.

[Algorithm Settings]

Select the checkbox of the algorithm to use for TLS.

6 Enable TLS on Remote UI.

1. Click [License/Other] ▶ [Remote UI Settings] ▶ [Edit].
   ➡ The [Edit Remote UI Settings] screen is displayed.
2. Select the [Use TLS] checkbox, and click [OK].

7 Restart the machine. **Restarting the Machine(P. 90)**

➡ The settings are applied.

NOTE

When a Warning Message Appears at Remote UI Startup

- A warning message about the security certificate may appear when starting up Remote UI with TLS enabled. If there are no problems with the certificate or TLS settings, you can continue operations.

Using TLS to Encrypt Received I-Faxes

- If the POP3 server support TLS, TLS can be used for communication with the server. **Preparing to Receive and Print I-Faxes(P. 161)**

Using IPSec

864Y-057

Use IP Security Protocol (IPSec) to prevent eavesdropping and tampering of IP packets sent and received over an IP network. This performs encryption at the IP protocol level to ensure security without relying on an application or network configuration.

IPSec Applicable Conditions and Supported Modes(P. 232)
IPSec Policy Configuration(P. 232)
Setting IPSec(P. 232)

IPSec Applicable Conditions and Supported Modes

Packets where IPSec does not apply

- Packets specifying a loopback, multicast, or broadcast address
- IKE packets sent from UDP port 500
- ICMPv6 Neighbor Solicitation and Neighbor Advertisement packets

Operation mode of key exchange protocol (IKE mode)

The IKE mode supported by the machine is only the main mode that is used to encrypt packets. The non-encrypting aggressive mode is not supported.

Communication mode

The communication mode supported by the machine is only the transport mode, which encrypts only the part excluding the IP header. Tunnel mode, which encrypts the entire IP packet, is not supported.

Using IPSec together with IP address filtering

The IP address filter settings are applied first. **Setting the Firewall(P. 224)**

IPSec Policy Configuration

To perform IPSec communication on the machine, you must create an IPSec policy that includes the applicable range and algorithms for authentication and encryption. The policy is mainly made up of the following items.

Selector

Specify which IP packets to apply IPSec communication. In addition to specifying the IP address of the machine and communicating devices, you can also specify their port numbers.

IKE

The key exchange protocol supports Internet Key Exchange Version 1 (IKEv1). For the authentication method, select the pre-shared key method or digital signature method.

- **Pre-shared Key Method:**
  This authentication method uses a common key word, called Shared Key, for communication between the machine and other devices.
- **Digital Signature Method**
  The machine and the other devices authenticate each other by mutually verifying their digital signatures.

ESP/AH

Specify the settings for ESP/AH, which is the protocol used for IPSec communication. ESP and AH can be used at the same time. Use Perfect Forward Secrecy (PFS) for even greater security.

Setting IPSec

Enable the use of IPSec, and then create and register the IPSec policy. If multiple policies have been created, specify the order in which they are applied.

This section describes how to configure the settings using Remote UI from a computer.

On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. However, the operation panel can only be used to enable or disable IPSec. **[Use IPSec](P. 322)**
Administrator privileges are required. The machine must be restarted to apply the settings.

Required Preparations

- Connect the machine directly to a computer on the same virtual private network (VPN) as the machine. Confirm the operation conditions, and finish the settings on the computer in advance. **IPSec(P. 33)**
- Prepare the following according to the IKE authentication method:
  - When using the pre-shared key method, enable TLS for Remote UI communication. **Using TLS(P. 230)**
  - When using the digital signature method, prepare the key and certificate to use. **Managing and Verifying a Key and Certificate(P. 238)**
- When using PFS, check that PFS is enabled on the communicating device.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Network Settings] ▶ [IPSec Settings] ▶ [Edit].

➡ The [Edit IPSec Settings] screen is displayed.

4 Select the [Use IPSec] checkbox, and click [OK].

To only receive packets that meet the policy, clear the [Receive Non-Policy Packets] checkbox.

5 Click [Register New Policy].

➡ The [Register New IPSec Policy] screen is displayed.

6 In [Policy Settings], enter the policy name, and select the [Enable Policy] checkbox.

For the policy name, enter a name to identify the policy using single-byte alphanumeric characters.

7 In [Selector Settings], set the selector.

[Local Address Settings]

Select the type of IP address of the machine to which the policy is applied.

- To apply IPSec to all IP packets, select [All IP Addresses].
- To apply IPSec to IP packets sent and received using an IPv4 or IPv6 address, select [IPv4 Address] or [IPv6 Address].

[Remote Address Settings]

Select the type of IP address of the communicating device to which the policy is applied.

- To apply IPSec to all IP packets, select [All IP Addresses].
- To apply IPSec to IP packets sent and received using an IPv4 or IPv6 address, select [All IPv4 Addresses] or [All IPv6 Addresses].

- To specify an IPv4 or IPv6 address to which IPSec is applied, select [IPv4 Manual Settings] or [IPv6 Manual Settings].

[Addresses to Set Manually]

When [IPv4 Manual Settings] or [IPv6 Manual Settings] is selected, enter the IP address. You can also specify a range of IP addresses by using a hyphen (-).

Input example:

- **One IPv4 address**
  192.168.0.10
- **One IPv6 address**
  fe80::10
- **Range specification**
  192.168.0.10-192.168.0.20

[Subnet Settings]

When [IPv4 Manual Settings] is selected, you can use a subnet mask to specify the range of IPv4 addresses.

Input example:
255.255.255.240

[Prefix Length]

When [IPv6 Manual Settings] is selected, you can use a prefix length to specify the range of IPv6 addresses. Enter the prefix length with a range of 0 to 128.

[Port Settings]

Set the port to which IPSec is applied in [Local Port] on the machine and [Remote Port] on the communicating device.

- To apply IPSec to all port numbers, select [All Ports].
- To apply IPSec to a specific protocol such as HTTP or WSD, select [Single Port], and enter the port number of the protocol.

8 In [IKE Settings], set IKE.

[IKE Mode]

The machine only supports the main mode.

[Authentication Method]

Select the authentication method of the machine.

- When [Pre-Shared Key Method] is selected, click [Shared Key Settings] ▶ enter the string to use as the shared key using single-byte alphanumeric characters ▶ click [OK].
- When [Digital Signature Method] is selected, click [Key and Certificate] ▶ [Register Default Key] to the right of the key and certificate to use.

[Validity]

Enter the valid period of IKE SA (ISAKMP SA) to use as the control communication path in minutes.

[Authentication/Encryption Algorithm]

Select the algorithm to use for key exchange.

9 In [IPSec Network Settings], configure the IPSec network settings.

[Use PFS]

Select this checkbox to configure PFS for the session key.

[Validity]

Specify the valid period of IPSec SA to use as the data communication path by time, size, or both.

- When the [Specify by Time] checkbox is selected, enter the valid period in minutes.
- When the [Specify by Size] checkbox is selected, enter the valid period in megabytes.
- When both are selected, the item whose specified value is reached first is applied.

[Authentication/Encryption Algorithm]

Select this checkbox according to the IPSec header (ESP and AH) to be used and its algorithm.

[ESP Authentication]

When [ESP] is selected, select the authentication algorithm. To perform ESP authentication, select [SHA1]. Otherwise, select [Do Not Use].

[ESP Encryption]

When [ESP] is selected, select the encryption algorithm. If you do not want to specify the algorithm, select [NULL]. To disable encryption, select [Do Not Use].

[Connection Mode]

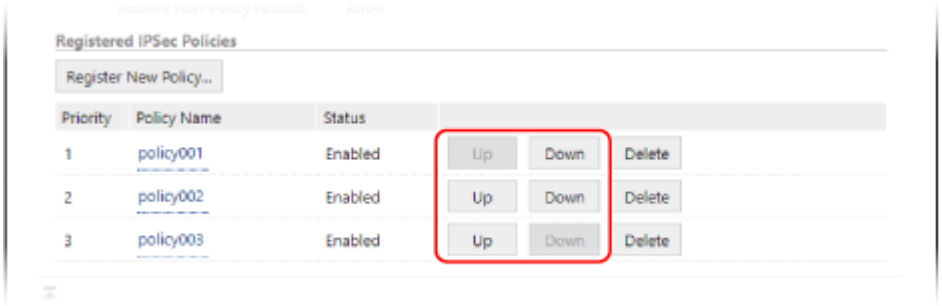
The machine only supports the transport mode.

10 Click [OK].

➠ The newly registered policy is added to [Registered IPSec Policies] on the [IPSec Settings] screen.

■When multiple policies are registered

Click [Up] or [Down] to the right of the policy name to set the priority. Higher level policies have priority in application to IPSec communication.



11 Restart the machine. Restarting the Machine(P. 90)

➠ The settings are applied.

NOTE

Editing Registered Policies

- To edit the registered information, click the policy name you want to edit in [Registered IPSec Policies] on the [IPSec Settings] screen.

Using IEEE 802.1X

864Y-058

In a network environment with IEEE 802.1X authentication, only client devices (supplicants) authenticated by the authentication server (RADIUS server) are allowed to connect to the network via the LAN switch (authenticator), thereby blocking unauthorized access. When connecting the machine to a network that uses IEEE 802.1X authentication, you must configure the settings on the machine such as the authentication method managed by the authentication server.

IEEE 802.1X Authentication Methods(P. 236)
Setting IEEE 802.1X(P. 236)

IEEE 802.1X Authentication Methods

The following IEEE 802.1X authentication methods are supported:

TLS
The machine and authentication server authenticate each other by mutually verifying their certificates. This cannot be used together with another authentication method.

TTLS
This authentication method uses a user name and password for machine authentication and a CA certificate for the server authentication. MSCHAPv2 or PAP can be selected as the internal protocol, and TTLS can be used together with PEAP.

PEAP
The required settings are almost the same as those for TTLS, with MSCHAPv2 used as the internal protocol.

Setting IEEE 802.1X

First enable IEEE 802.1X, and then set the authentication method.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. However, the operation panel can only be used to enable or disable IEEE 802.1X. **[Use IEEE 802.1X](P. 313)**
Administrator privileges are required. The machine must be restarted to apply the settings.

Required Preparations

- When using TLS as the authentication method, prepare the key and certificate issued by the certificate authority and used for authentication of the machine. **Managing and Verifying a Key and Certificate(P. 238)**

  * A preinstalled CA certificate or a CA certificate installed from Remote UI is used for server authentication.
- When using TTLS or PEAP as the authentication method, TLS-encrypt communication using Remote UI. **Using TLS(P. 230)**

1 **Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)**

2 **On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)**

3 **Click [Network Settings] ▶ [IEEE 802.1X Settings] ▶ [Edit].**

➡ The [Edit IEEE 802.1X Settings] screen is displayed.

4 Select the [Use IEEE 802.1X] checkbox, and enter the login name.

For the login name, enter a name to identify the user (EAP Identity) using single-byte alphanumeric characters.

■When verifying the certificate of an authentication server

Select the [Verify Authentication Server Certificate] checkbox.
When verifying the common name of the certificate, select the [Verify Authentication Server Name] checkbox, and enter the name of the authentication server to which the user is registered.

5 Configure the settings according to the authentication method to be used.

■When using TLS

1. Select the [Use TLS] checkbox.
2. In [Name of Key to Use], click [Key and Certificate].

   ➡ The [Key and Certificate Settings] screen is displayed.
3. To the right of the key and certificate to use, click [Register Default Key].
   - Click the key name (or certificate icon) to display the certificate details.
   - On the certificate details screen, click [Verify Certificate] to verify that the certificate is valid.

■ When using TTLS or PEAP

1. Select the [Use TTLS] or [Use PEAP] checkbox.
   When using TTLS, select the internal protocol to be used.
2. Use [Use Login Name as User Name] to specify whether to use the login name of IEEE 802.1X authentication for the user name.
3. In [User Name/Password Settings], click [Change User Name/Password].

   ➡ The [Change User Name/Password] screen is displayed.
4. Set the user name and password, and select the [OK] checkbox.
   - Enter the user name using single-byte alphanumeric characters.
   - To set a password, select the [Change Password] checkbox, and enter the same password in both [Password] and [Confirm] using single-byte alphanumeric characters.

6 Click [OK].

7 Restart the machine. Restarting the Machine(P. 90)

➡ The settings are applied.

Managing and Verifying a Key and Certificate

864Y-059

To encrypt communication with TLS when using Remote UI, or to use TLS as the IEEE 802.1X authentication method, a key and certificate are required In addition, depending on the communicating device, encrypted communication using a specified certificate may be requested, thereby requiring a key and certificate.

Managing a Key and Certificate

You can prepare a key and certificate using the following methods:

Generating a Key and Certificate on the Machine

Generate the key and certificate required for TLS on the machine. You can immediately communicate where self-signed certificates are allowed.

Generating a Key and Certificate(P. 239)

Registering a Certificate Issued by a Certificate Authority in a Self-generated Key

When a key is generated on the machine, generate a Certificate Signing Request (CSR), have the certificate authority issue a certificate, and then register that certificate in the key.

Generating a Key and Certificate Signing Request (CSR) and Obtaining and Registering a Certificate(P. 241)

Registering a Certificate Obtained from an SCEP Server to a Self-generated Key

When generating a key on the machine, request a Simple Certificate Enrollment Protocol (SCEP) server to issue a certificate, and then register the obtained certificate. You can also request that a certificate be issued at a specified date and time.

Generating a Key and Obtaining and Registering a Certificate from an SCEP Server(P. 244)

Registering a Key and Certificate or CA Certificate Obtained from an Issuing Authority

Register a key and certificate obtained from an issuing authority or a CA certificate issued by a certificate authority, without self-generating the key and certificate. You can use a digital certificate that matches the communicating device and authentication level.

Registering a Key and Certificate or CA Certificate Obtained from an Issuing Authority(P. 251)

Verifying a Certificate

You can configure the settings to verify the validity of a certificate that the machine receives from a certificate authority, using the Online Certificate Status Protocol (OCSP).

Verifying a Received Certificate with OCSP(P. 253)

Generating a Key and Certificate

864Y-05A

Generate the key and certificate required for TLS-encrypted communication on the machine. A self-signed certificate is used for the self-generated key.
For the algorithm of the keys and certificates that can be generated with this machine, see the specifications of the self-generated key and self-signed certificate. **Keys and Certificates(P. 34)**

Generate a key and certificate using Remote UI from a computer. You cannot use the operation panel to generate a key and certificate.
Administrator privileges are required.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Device Management] ▶ [Key and Certificate Settings] ▶ [Generate Key].

➡ The [Generate Key] screen is displayed.

4 Select [Network Communication], and click [OK].

➡ The [Generate Network Communication Key] screen is displayed.

5 In [Key Settings], enter the name of the key, and select the signature and key algorithm.

- Enter the key name using single-byte alphanumeric characters.
- For the key algorithm, select [RSA] or [ECDSA], and select the key length from the pulldown menu. The longer the key length, the better the security, but this slows down communication processing.

6 In [Certificate Settings], set the certificate information.

[Validity Start Date (YYYY/MM/DD)]/[Validity End Date (YYYY/MM/DD)]

Enter the start and end dates of the certificate validity period.

[Country/Region]

Select [Select Country/Region], and then select the country or region from the pulldown menu, or select [Enter Internet Country Code], and enter the country code.

[State]/[City]/[Organization]/[Organization Unit]

Enter the items as needed using single-byte alphanumeric characters.

[Common Name]

Enter the name of the certificate subject as needed using single-byte alphanumeric characters. This corresponds to the Common Name (CN).

7 Click [OK].

➡ The generated key and certificate are added to [Registered Key and Certificate] on the [Key and Certificate Settings] screen.

8 Log out from Remote UI.

NOTE

Viewing and Verifying Detailed Information of a Generated Certificate

- When you click the key name (or certificate icon) in [Registered Key and Certificate] on the [Key and Certificate Settings] screen, the certificate details appear.
- On the certificate details screen, click [Verify Certificate] to verify that the certificate is valid.

When the Key and Certificate Cannot Be Deleted

- You cannot delete a key and certificate being used. Disable the function being used, or delete these after switching to another key and certificate.

Generating a Key and Certificate Signing Request (CSR) and Obtaining and Registering a Certificate

864Y-05C

As a certificate generated on the machine does not have a signature from a certificate authority, the machine may not be able to communicate depending on the communicating device. In this case, registering a signed certificate issued by a certificate authority to the key enables communication even with a self-generated key.
For the certificate authority to issue a signed certificate, you must make a request attached with a Certificate Signing Request (CSR). The machine generates a CSR at the same time it generates a key.
For more information about the keys that can be generated by the machine and the CSR algorithm, see self-generated key and CSR specifications. **Keys and Certificates(P. 34)**

Generating a Key and CSR(P. 241)
Registering a Certificate Issued by a Certificate Authority to a Key(P. 242)

Generating a Key and CSR

Generate a key and CSR using Remote UI from a computer. You cannot use the operation panel to generate a key and certificate.
Administrator privileges are required.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Device Management] ▶ [Key and Certificate Settings] ▶ [Generate Key].

➡ The [Generate Key] screen is displayed.

4 Select [Key and Certificate Signing Request (CSR)], and click [OK].

➡ The [Generate Key and Certificate Signing Request (CSR)] screen is displayed.

5 In [Key Settings], enter the name of the key, and select the signature algorithm and key algorithm.

- Enter the key name using single-byte alphanumeric characters.
- For the key algorithm, select [RSA] or [ECDSA], and select the key length from the pulldown menu. The longer the key length, the better the security, but this slows down communication processing.

6 In [Certificate Signing Request (CSR) Settings], set the CSR information.

[Country/Region]

Select [Select Country/Region], and either select the country or region from the pulldown menu, or select [Enter Internet Country Code] and enter the country code.

[State]/[City]/[Organization]/[Organization Unit]

Enter the items as needed using single-byte alphanumeric characters.

[Common Name]

Enter the name of the certificate subject as needed using single-byte alphanumeric characters. This corresponds to the Common Name (CN).

7 Click [OK].

➡ The [Key and Certificate Signing Request (CSR) Details] screen is displayed.

8 Click [Store in File] to save the CSR file to a computer.

9 Log out from Remote UI.

10 Submit the application with CSR file attached to the certificate authority.

NOTE

- When the CSR is generated, the key is registered to the machine, but it cannot be used until the certificate issued by the certificate authority is registered.

Registering a Certificate Issued by a Certificate Authority to a Key

Register the certificate using Remote UI from a computer. You cannot use the operation panel to register it. Administrator privileges are required.

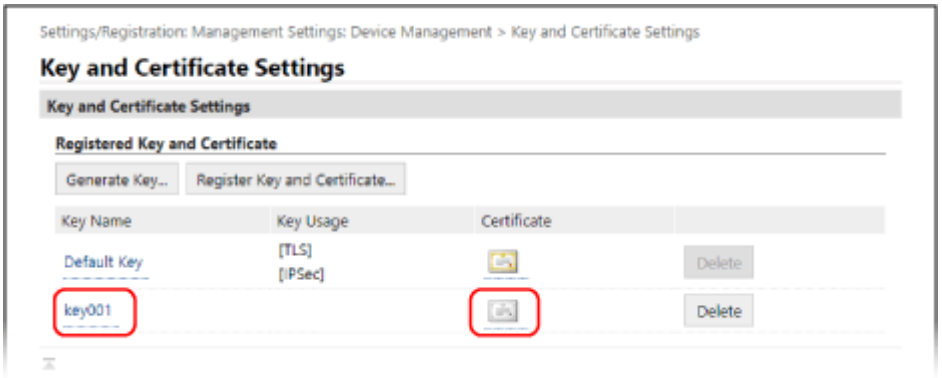
1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Device Management] ▶ [Key and Certificate Settings].

➡ The [Key and Certificate Settings] screen is displayed.

4 Click the key name (or certificate icon) to which to register the certificate.



➠ The [Key and Certificate Signing Request (CSR) Details] screen is displayed.

5 **Click [Register Certificate].**

6 **In [Specify File], click [Browse], and specify the file of the certificate issued by the certificate authority.**

7 **Click [Register].**

➠ The icon of the certificate displayed in [Registered Key and Certificate] on the [Key and Certificate Settings] screen changes from [ ] to [ ].

8 **Log out from Remote UI.**

NOTE

Viewing and Verifying Detailed Information of a Registered Certificate

- Click the key name (or certificate icon) in [Registered Key and Certificate] on the [Key and Certificate Settings] screen to display the certificate details.
- On the certificate details screen, click [Verify Certificate] to verify that the certificate is valid.

When the Key and Certificate Cannot Be Deleted

- You cannot delete a key and certificate being used. Disable the function being used, or delete these after switching to another key and certificate.

Generating a Key and Obtaining and Registering a Certificate from an SCEP Server

864Y-05E

When generating a key on the machine, you can request a Simple Certificate Enrollment Protocol (SCEP) server that manages certificates to issue a certificate. The certificate issued by an SCEP server is registered automatically to the machine.
For information about the algorithm of the keys that can be generated with this machine and certificates that can be requested to be issued, see the specifications of the self-generated key and Certificate Signing Request (CSR). **Keys and Certificates(P. 34)**
This machine supports Network Device Enrollment Service (NDES) in Windows Server 2008 R2, 2012 R2, and 2016 for the SCEP server. Communication using HTTPS is not supported.

To obtain and register a certificate from an SCEP server, configure the settings for communicating with the SCEP server, and then generate a key and request certificate issuance. You can also request certificate issuance at a specified date and time.

Configuring the SCEP Server Communication Settings(P. 244)
Generating a Key and Requesting Certificate Issuance(P. 245)
Requesting Certificate Issuance at a Specified Date and Time(P. 246)

Configuring the SCEP Server Communication Settings

Configure the communication settings using Remote UI from a computer. You cannot use the operation panel to configure the settings.
Administrator privileges are required.

Required Preparations

- Prepare the URL and port number of the SCEP server.
  * Communication using HTTPS is not supported.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Device Management] ▶ [Settings for Certificate Issuance Request (SCEP)].

➡ The [Settings for Certificate Issuance Request (SCEP)] screen is displayed.

4 In [Communication Settings], click [Edit].

➡ The [Edit Communication Settings] screen is displayed.

5 Set the SCEP server information.

[SCEP Server URL]

Enter the URL of the connecting SCEP server.

[Port Number]

Enter the port number used to communicate with the SCEP server.

[Communication Timeout]

Enter the time from search start to timeout in seconds.

6 Click [OK].

➡ The settings are applied.

7 Log out from Remote UI.

Generating a Key and Requesting Certificate Issuance

Configure the settings for generating a key and requesting the issuance of a certificate using Remote UI from a computer. You cannot use the operation panel to configure the settings.
Administrator privileges are required. The machine must be restarted after obtaining a key.
* This method cannot be used to request issuance of a certificate when the setting for requesting issuance of a certificate at a specified date and time is enabled. **Requesting Certificate Issuance at a Specified Date and Time(P. 246)**

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Device Management] ▶ [Settings for Certificate Issuance Request (SCEP)] ▶ [Certificate Issuance Request].

➡ The [Certificate Issuance Request] screen is displayed.

4 Set the items for a key and certificate.

[Key Name]

Enter the key name using single-byte alphanumeric characters.

[Signature Algorithm]

Select the signature algorithm from the pulldown menu.

[Key Length (bit)]

Select the key length from the pulldown menu. The larger the value, the better the security, but this slows down communication processing.

[Organization]

Enter the organization name using single-byte alphanumeric characters, as needed.

[Common Name]

Enter the name of the certificate subject using single-byte alphanumeric characters.
This is also called the Common Name (CN).

[Challenge Password]

When the SCEP server has a password, enter the password for the request data used for the issuance request using single-byte alphanumeric characters.

[Key Usage]

Select the usage of the generated key. If the usage is not decided, select [None].

5 Click [Issuance Request] ▶ [OK].

➡ The request to issue a certificate is sent to the SCEP server.

6 When the message that says a certificate is acquired appears, click [Restart].

➡ The machine restarts, and the key and certificate are registered.

NOTE

Viewing Issuance Request Status and Error Information

- You can view detailed information on the [Settings for Certificate Issuance Request (SCEP)] screen.
  If a certificate is not issued, an error is displayed in the certificate issuance request status. For details about the message and how to resolve it, see the following:
  If an Error Is Displayed in the Certificate Issuance Request Status(P. 249)

Viewing and Verifying Detailed Information of a Registered Certificate

- In [Settings/Registration] ▶ [Device Management] ▶ [Key and Certificate Settings] ▶ [Registered Key and Certificate], click the key name (or certificate icon) to display the certificate details.
- On the certificate details screen, click [Verify Certificate] to verify that the certificate is valid.

When the Key and Certificate Cannot Be Deleted

- You cannot delete a key and certificate being used. Disable the function being used, or delete these after switching to another key and certificate.

Requesting Certificate Issuance at a Specified Date and Time

The request for certificate issuance occurs at the specified date and time. You can also set the request for certificate issuance to occur regularly.

Configure the settings using Remote UI from a computer. You cannot use the operation panel to configure the settings.
Administrator privileges are required.

1 Log in to Remote UI in System Manager Mode. **Starting Remote UI(P. 277)**

2 On the Portal page of Remote UI, click [Settings/Registration]. **Portal Page of Remote UI(P. 280)**

3 Click [Device Management] ▶ [Settings for Certificate Issuance Request (SCEP)].

➡ The [Settings for Certificate Issuance Request (SCEP)] screen is displayed.

4 In [Settings for Certificate Issuance Auto Request], click [Edit].

➡ The [Edit Settings for Certificate Issuance Auto Request] screen is displayed.

5 Select the [Enable Timer for Certificate Issuance Auto Request] checkbox, and enter the start date and time to request issuance of a certificate.

6 Set other items at the time of issuance auto request, as needed.

[Auto Adjust Issuance Request Time]

To adjust the certificate issuance request time, select this checkbox.
The start time for issuing a certificate may be adjusted randomly by up to 10 minutes to reduce the load on the SCEP server.

[Perform Polling When Communication Error Occurs or When Issuance Request Is Deferred]

Check the status of the SCEP server, such as when certificate issuance has been deferred. Select the checkbox and enter the number of polling retries and interval.

* Polling is not performed and an error occurs in the following cases:

- When the machine has exceeded the limit of keys and certificates that can be registered
- When an error occurs in the obtained response data
- When an error occurs in the SCEP server

[Send Periodic Issuance Requests]

The request for certificate issuance occurs automatically and regularly. Select the checkbox and select the issuance request interval from the pulldown menu.
Enabling this setting resets the start date and time to request issuance of a certificate.

[Automatically Restart Device After Acquiring Certificate]

To restart the machine after obtaining a certificate, select the checkbox.

[Delete Old Key and Certificate]

To overwrite the key and certificate with the same location where the key will be used, select the checkbox.

7 In [Settings for Key and Certificate To Be Issued], set the items for a key and certificate.

[Key Name]

Enter the key name using single-byte alphanumeric characters.

[Signature Algorithm]

Select the signature algorithm from the pulldown menu.

[Key Length (bit)]

Select the key length from the pulldown menu. The larger the value, the better the security, but this slows down communication processing.

[Organization]

Enter the organization name using single-byte alphanumeric characters, as needed.

[Common Name]

Enter the name of the certificate subject using single-byte alphanumeric characters.
This is also called the Common Name (CN).

[Challenge Password]

When the SCEP server has a password, enter the password for the request data used for the issuance request using single-byte alphanumeric characters.

[Key Usage]

Select the the usage of the generated key. If the usage is not decided, select [None].

8 Click [OK].

➡ The settings are applied.

9 Log out from Remote UI.

NOTE

Viewing Issuance Request Status and Error Information

- You can view detailed information on the [Settings for Certificate Issuance Request (SCEP)] screen.
  If a certificate is not issued, an error is displayed in the certificate issuance request status. For details about the message and how to resolve it, see the following:
  If an Error Is Displayed in the Certificate Issuance Request Status(P. 249)

Viewing and Verifying Detailed Information of a Registered Certificate

- In [Settings/Registration] ▶ [Device Management] ▶ [Key and Certificate Settings] ▶ [Registered Key and Certificate], click the key name (or certificate icon) to display the certificate details.
- On the certificate details screen, click [Verify Certificate] to verify that the certificate is valid.

When the Key and Certificate Cannot Be Deleted

- You cannot delete a key and certificate being used. Disable the function being used, or delete these after switching to another key and certificate.

If an Error Is Displayed in the Certificate Issuance Request Status

864Y-0C6

If a certificate is not issued, an error is displayed in the certificate issuance request status. Select the message from the list below, and check how to troubleshoot the problem.

Key and Certificate Registration Limit Error(P. 249)
Communication Error (SCEP ERROR - Fail Info 0: Unrecognized or Unsupported Algorithm)(P. 249)
Communication Error (SCEP ERROR - Fail Info 1: CMS Message Integrity Verification Failure)(P. 249)
Communication Error (SCEP ERROR - Fail Info 2: Forbidden or Unsupported Transaction)(P. 250)
Communication Error (SCEP ERROR - Fail Info 3: Excessive Time Difference Between CMS signingTime and System Time)(P. 250)
Communication Error (SCEP ERROR - Fail Info 4: No Certificate Identified That Matches Provided Criteria)(P. 250)
Communication Error (TCP ERROR)(P. 250)
Communication Error (HTTP ERROR <HTTP status code>)(P. 250)
Deferred(P. 250)

NOTE

- If the problem persists even after trying the troubleshooting methods, contact the SCEP server administrator.

Key and Certificate Registration Limit Error

The maximum number of keys and certificates that can be registered to the machine has been reached.
Delete unused keys and certificates.

Communication Error (SCEP ERROR - Fail Info 0: Unrecognized or Unsupported Algorithm)

The algorithm of the certificate is unknown or is not supported.

Set the [Signature Algorithm] and [Key Length (bit)] of the Certificate Issuance Request Correctly.
Generating a Key and Obtaining and Registering a Certificate from an SCEP Server(P. 244)

Communication Error (SCEP ERROR - Fail Info 1: CMS Message Integrity Verification Failure)

Certificate integrity check (CMS message signature verification) failed.

Request Certificate Issuance Again.
Generating a Key and Obtaining and Registering a Certificate from an SCEP Server(P. 244)

Communication Error (SCEP ERROR - Fail Info 2: Forbidden or Unsupported Transaction)

Communication with the SCEP server is not allowed or supported.

Set the Communication Settings of the SCEP Server Correctly.
Generating a Key and Obtaining and Registering a Certificate from an SCEP Server(P. 244)

Communication Error (SCEP ERROR - Fail Info 3: Excessive Time Difference Between CMS signingTime and System Time)

The time of the signingTime attribute in the authenticated attribute of CMS (PKCS#7) does not match the time of the SCEP server.

Check the Date and Time Settings on the Machine.
If the settings are not correct, set the time zone, and then set the current date and time.
Request certificate issuance again.

Setting the Date and Time(P. 275)

Generating a Key and Obtaining and Registering a Certificate from an SCEP Server(P. 244)

Communication Error (SCEP ERROR - Fail Info 4: No Certificate Identified That Matches Provided Criteria)

Unable to identify if the certificate matches the standard.

Contact the SCEP Server Administrator.

Communication Error (TCP ERROR)

Connection to SCEP server failed or timed out.

Set the Communication Settings of the SCEP Server Correctly.
Generating a Key and Obtaining and Registering a Certificate from an SCEP Server(P. 244)

Communication Error (HTTP ERROR <HTTP status code>)

HTTP error occurred.

Set the Communication Settings of the SCEP Server Correctly.
Generating a Key and Obtaining and Registering a Certificate from an SCEP Server(P. 244)

Deferred

SCEP server returned a deferred status.

Wait a Moment, and Request Certificate Issuance.
Generating a Key and Obtaining and Registering a Certificate from an SCEP Server(P. 244)

Registering a Key and Certificate or CA Certificate Obtained from an Issuing Authority

864Y-05F

Install and register a key and certificate or CA certificate obtained from a digital certificate issuing authority to the machine before starting to use them.

Register the key and certificate or CA certificate using Remote UI from a computer. You cannot use the operation panel to register these.
Administrator privileges are required.

Required Preparations

- Check the conditions of the key and certificate or CA certificate usable with the machine. **Keys and Certificates(P. 34)**
- When registering a key and certificate, check the password for the private key set in the file.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Device Management] [Key and Certificate Settings] or [CA Certificate Settings].

The [Key and Certificate Settings] screen or [CA Certificate Settings] screen is displayed.

4 Click [Register Key and Certificate] or [Register CA Certificate].

The [Register Key and Certificate] screen or [Register CA Certificate] screen is displayed.

5 Install the key and certificate file or CA certificate file.

1. Click [Install].
2. Click [Browse] in [Specify File], and specify the file to be installed.
3. Click [Start Installation].

The installed file is added to [Installed Key and Certificate] on the [Register Key and Certificate] screen or [Installed CA Certificate] on the [Register CA Certificate] screen.

6 Registering the key and certificate or CA certificate.

When registering a key and certificate

1. To the right of the key and certificate file to register, click [Register].

➡ The [Enter Private Key Password] screen is displayed.

2 Enter the key name password using single-byte alphanumeric characters, and click [OK].

➡ The registered key and certificate are added to [Registered Key and Certificate] on the [Key and Certificate Settings] screen.

■ When registering a CA certificate

To the right of the CA certificate file to register, click [Register].

➡ The registered CA certificate is added to [Registered CA Certificate] on the [CA Certificate Settings] screen.

7 Log out from Remote UI.

NOTE

Viewing and Verifying Detailed Information of a Registered Certificate

- When you click the key name (or certificate icon) in [Registered Key and Certificate] on the [Key and Certificate Settings] screen, the certificate details appear.
- On the certificate details screen, click [Verify Certificate] to verify that the certificate is valid.

Viewing and Verifying Detailed Information of a Registered CA Certificate

- When you click the issued to location in [Registered CA Certificate] on the [CA Certificate Settings] screen, the CA certificate details appear.
- On the CA certificate details screen, click [Verify Certificate] to verify that the CA certificate is valid.

When the Key and Certificate or CA Certificate Cannot Be Deleted

- You cannot delete a key and certificate being used. Disable the function being used, or delete these after switching to another key and certificate.
- A preinstalled CA certificate cannot be deleted. If a preinstalled CA certificate is not required, click [Disable] to the right of the CA certificate.

Verifying a Received Certificate with OCSP

864Y-05H

Online Certificate Status Protocol (OCSP) is a protocol for inquiring to an OCSP responder (server that supports OCSP) about the revocation status of a certificate received from a certificate authority.
You can configure the settings to verify the validity of a certificate that the machine receives from a certificate authority, using the OCSP.

Configure these settings using Remote UI from a computer. You cannot use the operation panel to configure the settings.
Administrator privileges are required.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Device Management] [OCSP (Online Certificate Status Protocol) Settings] [Edit].

The [Edit OCSP (Online Certificate Status Protocol) Settings] screen is displayed.

4 Select the [Use OCSP (Online Certificate Status Protocol)] checkbox.

5 Set the certificate verification level and the OCSP responder.

[Certificate Verification Level]

Set whether to validate the certificate even if its revocation status cannot be confirmed, such as when the machine is unable to connect to an OCSP responder.

[OCSP Responder Settings]

Specify the URL of the OCSP responder.

[Custom URL]

When [Use Custom URL] or [Use Certificate URL (Use Custom URL If Certificate URL Cannot Be Retrieved)] is selected, enter the URL of the OCSP responder.

[Communication Timeout]

Enter the time from search start to timeout in seconds.

6 Click [OK].

The settings are applied.

7 Log out from Remote UI.

Preventing Leaking Information

864Y-05J

Leaving a printed document on the machine poses a risk of information leakage. In addition, while using memory media and mobile devices is easy and convenient, these can lead to information theft.
You can take measures to prevent leaking information, according to the usage status of the function, to ensure safer use of the machine.

Appropriately Restricting Functions

You can restrict access to part or all of a function using memory media and mobile devices.

Restricting Use of Memory Media(P. 255)
Restricting Use from a Mobile Device(P. 257)

Preventing Unattended Printed Documents and Information Theft

You can store print data sent from a computer without printing them immediately.

Restricting Printing(P. 258)

Restricting Use of Memory Media

864Y-05R

USB memory devices and other memory media can be easy and convenient, but they can also lead to information leakage. You can prohibit the use of memory media.

Preventing Use of Memory Media When Printing(P. 255)
Preventing All Use of Memory Media(P. 255)

NOTE

- Even if you use this setting to restrict the use of memory media, a computer can still be connected to the USB port on the back of the machine. To also restrict computer connections, see the following.
  Preventing Connection to Computer via USB Port(P. 263)

Preventing Use of Memory Media When Printing

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Function Settings] to configure the settings. **[Memory Media Settings](P. 380)**
Administrator privileges are required. The machine must be restarted to apply the settings.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Store/Access Files Settings] ▶ [Memory Media Settings] ▶ [Edit].

➡ The [Edit Memory Media Settings] screen is displayed.

4 Clear the [Memory Media Print] checkbox, and click [OK].

5 Restart the machine. Restarting the Machine(P. 90)

➡ The settings are applied.

Preventing All Use of Memory Media

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. **[USB Settings](P. 324)**
Administrator privileges are required. The machine must be restarted to apply the settings.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 **On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)**

3 **Click [External Interface Settings] ▶ [Edit].**

➡ The [Edit External Interface Settings] screen is displayed.

4 **Clear the [Use USB Storage Device] checkbox, and click [OK].**

5 **Restart the machine. Restarting the Machine(P. 90)**

➡ The settings are applied.

Restricting Use from a Mobile Device

864Y-05S

The machine supports the Mopria® plugin, which is supported by various manufacturers.
Mopria® enables printing from any application, such as on a smartphone, or a device equipped with Chrome OS without having to install a dedicated Canon plugin.
Printing from a mobile device can be easy and convenient, but it can also lead to information leakage. You can also prohibit use of Mopria®.
If use of Mopria® is prohibited, you cannot use Default Print Service to print.

Configure this setting using Remote UI from a computer. You cannot use the operation panel to configure the setting.
Administrator privileges are required.

1 **Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)**

2 **On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)**

3 **Click [Network Settings] ▶ [Mopria Settings] ▶ [Edit].**

➡ The [Edit Mopria Settings] screen is displayed.

4 **Clear the [Use Mopria] checkbox, and click [OK].**

➡ The settings are applied.

5 **Log out from Remote UI.**

NOTE

- When the Mopria® setting is enabled, the HTTP, IPP printing, and mDNS (IPv4/IPv6) network settings are also enabled.
  - **[TCP/IP Settings](P. 317)**

Restricting Printing

864Y-05K

You can require users to enter a PIN before printing. This can prevent not only unattended printed documents and information theft, but also unneeded printing, thereby saving paper.

Restricting Printing from a Computer to Secure Print(P. 259)

■ See Also

By using the Department ID Management function, you can restrict the number of pages that can be printed and the print function for each Department ID. You can also restrict printing from an unknown Department ID.
Authenticating Users and Managing Groups with Department ID (Department ID Management)(P. 214)

Restricting Printing from a Computer to Secure Print

864Y-05L

With Secure Print, you can set a PIN to a document on the computer and send that document to the machine to be printed. Printing is performed after that PIN is entered on the machine.
Restricting printing from a computer to Secure Print can prevent unattended printed documents and information theft. You can also confirm the print data before printing to prevent unwanted printing.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Function Settings] to configure the settings. **[Secure Print](P. 338)**
Administrator privileges are required.

1 **Log in to Remote UI in System Manager Mode.** **Starting Remote UI(P. 277)**

2 **On the Portal page of Remote UI, click [Settings/Registration].** **Portal Page of Remote UI(P. 280)**

3 **Click [Secure Print Settings] [Edit].**

The [Edit Secure Print Settings] screen is displayed.

4 **Check that the [Secure Print] checkbox is selected.**

5 **Select the [Restrict Printer Jobs] checkbox.**

6 **Click [OK].**

The settings are applied.

7 **Log out from Remote UI.**

NOTE

- For details about printing with Secure Print and the time period that Secure Print data is saved, see the following:
  Printing a Document Secured with a PIN (Secure Print)(P. 168)
  Changing the Time Period That Print Data with a PIN (Secure Data) Is Saved(P. 171)

Preventing Unauthorized Use

864Y-05U

The machine provides various settings to ensure efficient management and operation. While this information and the settings provide convenience, they can also lead to information leakage and other security issues if the information and settings can be accessed by anyone.
You can take measures to restrict access and disable functions according to the usage status of the function, to ensure safer use of the machine.

Restricting Access to Information and Settings

Restricting users and operations accessing information and settings on the machine can help prevent unauthorized use and protect confidential information.

Restricting Use of Remote UI(P. 261)

Disabling Unused Functions

You can disable unused functions to prevent intrusion from the outside.

Preventing Connection to Computer via USB Port(P. 263)
Configuring LPD, RAW, or WSD(P. 264)
Disabling HTTP Communication(P. 266)

■ See Also

For details about the administrator account and how to manage users and groups with access to the machine, see the following.

Setting the Department ID and PIN for the Administrator(P. 211)
Authenticating Users and Managing Groups with Department ID (Department ID Management)(P. 214)

Restricting Use of Remote UI

864Y-060

While Remote UI is convenient for operating the machine from a computer, it also poses a risk of third-party access to the machine.
You can configure the setting to require users to enter a PIN (Remote UI Access PIN) when using Remote UI to prevent unauthorized access by a third party.
If you do not use Remote UI, it is recommended that you disable the function.

Setting the PIN to Use for Remote UI(P. 261)
Disabling Remote UI(P. 262)

Setting the PIN to Use for Remote UI

You can restrict the use of Remote UI to only those users who know the Remote UI Access PIN.
This setting is not required when using Department ID Management, as Department ID authentication is performed.

This section describes how to configure the settings using the operation panel.
You can also configure the settings using Remote UI from a computer after the Remote UI Access PIN has been set on the machine. **Managing the Machine from a Computer (Remote UI)(P. 276)**
Administrator privileges are required.

1 **On the operation panel, press [Menu] in the [Home] screen.** **[Home] Screen(P. 97)**

2 **Press [Management Settings] ▶ [License/Other]*1 ▶ [Remote UI Settings] ▶ [Restrict Access].**

➡ The [Restrict Access] screen is displayed.

If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

*1 Depending on the model, [Remote UI Settings/Update Firmware] may appear.

3 **Set [Restrict Access] to [On], enter the Remote UI Access PIN, and press [Apply].**

4 **Enter the same number, and press [Apply].**

➡ The settings are applied.

NOTE

When [Management Settings] of the Settings Menu Is Initialized

- Use the settings menu on the operation panel to reset the Remote UI Access PIN. **[Restrict Access] (P. 392)**

Disabling Remote UI

You can disable Remote UI to reduce the risk of unauthorized access to the machine via the network.

Use the operation panel to configure the settings. You cannot configure the settings using Remote UI from a computer.
Administrator privileges are required. The machine must be restarted to apply the settings.

1 On the operation panel, press [Menu] in the [Home] screen. [Home] Screen(P. 97)

2 Press [Management Settings] ▶ [License/Other]*1 ▶ [Remote UI Settings] ▶ [Remote UI].

➡ The [Remote UI Settings] screen is displayed.

If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

*1 Depending on the model, [Remote UI Settings/Update Firmware] may appear.

3 Set [Use Remote UI] to [Off], and press [Apply] ▶ [OK].

4 Restart the machine. Restarting the Machine(P. 90)

➡ The settings are applied.

Preventing Connection to Computer via USB Port

864Y-05W

You can disable the USB port for computer connection on the back of the machine to reduce the risk of an external connection without going through a network with security measures.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. **[USB Settings](P. 324)**
Administrator privileges are required. The machine must be restarted to apply the settings.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [External Interface Settings] ▶ [Edit].

➡ The [Edit External Interface Settings] screen is displayed.

4 Clear the [Use as USB Device] checkbox, and click [OK].

5 Restart the machine. Restarting the Machine(P. 90)

➡ The settings are applied.

NOTE

- Even if you use this setting to restrict the use of the rear USB port, memory media can still be connected to the USB port on the front of the machine. To also restrict USB connection of memory media, see the following.
  Restricting Use of Memory Media(P. 255)

Configuring LPD, RAW, or WSD

864Y-05X

Select whether to use any of the protocols below on the machine when printing documents from a computer.
You are recommended to disable any protocols you will not be using.
When using LPD or RAW, you can configure the time until reception of print data is canceled.

LPD
This protocol is not dependent on the hardware, operating system, or other platform. It is commonly used in TCP/IP network environments.

RAW
This is Windows' proprietary print data type protocol. It is used as standard in a Windows environment.

WSD
This protocol enables automatic detection of network-connected printers in a Windows environment.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. **[TCP/IP Settings](P. 317)**
Administrator privileges are required. The machine must be restarted to apply the settings.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Network Settings].

4 Configure LPD, RAW, or WSD.

■When Configuring LPD

1. Click [LPD Settings] ▶ [Edit].
   ➡ The [Edit LPD Settings] screen is displayed.
2. Set whether to use LPD.
   When not using LPD, clear the [Use LPD Printing] checkbox, and proceed to step 5.
3. Enter the time in [RX Timeout].
   Enter the time in minutes from the start of reception standby, after print data reception is canceled, to the timeout.

■When Configuring RAW

1. Click [RAW Settings] ▶ [Edit].
   ➡ The [Edit RAW Settings] screen is displayed.
2. Set whether to use RAW.
   When not using RAW, clear the [Use RAW Printing] checkbox, and proceed to step 5.

3 Enter the time in [RX Timeout].
Enter the time in minutes from the start of reception standby, after print data reception is canceled, to the timeout.

■When Configuring WSD

1 Click [WSD Settings] ▶ [Edit].

➡ The [Edit WSD Settings] screen is displayed.

2 Set whether to use WSD for each function.
When not using WSD, clear the checkbox of the function for restricting use of WSD.

Using WSD to Print Data

Select the [Use WSD Printing] checkbox.
The [Use WSD Browsing] checkbox is selected automatically, and WSD is used to obtain the information of the machine from the computer.

When Responding to a Search Request of the Machine by Multicast Discovery

Select the [Use Multicast Discovery] checkbox.
To keep the machine in sleep mode without responding to received multicast discovery packets, clear the checkbox.

5 Click [OK].

6 Restart the machine. Restarting the Machine(P. 90)

➡ The settings are applied.

NOTE

Adding a WSD Network Device

- Click [ ] (Start) ▶ [ ] (Settings) ▶ [Devices] ▶ [Printers & scanners] ▶ [Add printers & scanners], and perform the operations following the instructions on the screen.
- For details about installing the driver via a WSD network, see the manual of the driver at the online manual site.
https://oip.manual.canon/

Changing the Port Number

- To change the port number of each protocol, see the following:
Changing the Port Number(P. 227)

Disabling HTTP Communication

864Y-05Y

It is recommended to disable HTTP communication when using only the USB connection or when not using functions that require HTTP communication, such as Remote UI, WSD printing, and AirPrint.

This section describes how to configure the settings using the operation panel.
You can also configure the settings using Remote UI from a computer. **Managing the Machine from a Computer (Remote UI)(P. 276)**
Administrator privileges are required.

1 On the operation panel, press [Menu] in the [Home] screen. [Home] Screen(P. 97)

2 Press [Preferences] ▶ [Network] ▶ [TCP/IP Settings] ▶ [Use HTTP].

➡ The [Use HTTP] screen is displayed.

If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

3 Press [Off] ▶ [Yes].

Applying a Security Policy

864Y-061

Canon multifunction machines and printers have a security policy function for collectively configuring and managing multiple security settings according to a policy.
You cannot edit the security policy with the machine, but you can apply a security policy that has been edited with another device or device management software.

Applying a Security Policy to the Machine(P. 267)
Checking the Security Policy Applied to the Machine(P. 268)

Applying a Security Policy to the Machine

You can import a security policy exported from another device or the device management software to the machine and apply it.
* To export a security policy from an imageRUNNER ADVANCE Series model and apply it to the machine, use the device management software.

Import the security policy using Remote UI from a computer. You cannot use the operation panel to import it.
Administrator privileges are required. When a security policy is imported, the machine restarts automatically.

IMPORTANT

Do not turn OFF the machine until the import is complete.

- It may take a few minutes until the process is completed. Turning OFF the machine during processing may cause data corruption or damage the machine.

Do not operate the machine during import.

- Before import, check that the machine is not printing or performing other operations.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Data Management] ▶ [Import].

➡ The [Import] screen is displayed.

4 Click [Browse] in [File Path], and specify the file to be imported.

Import the device configuration information file (*.dcm).

5 In [Decryption Password], enter the password set at export.

6 Select the [Settings/Registration] checkbox in [Select Item to Import].

7 **Click [Start Importing] ▶ [OK].**

➡ The security policy is imported to the machine.
When the import is complete, the machine restarts automatically.

8 **Click [OK].**

NOTE

Exporting a Security Policy

- You can export the security policy applied to the machine and apply it to another device (Canon device that supports security policy setting). **Importing and Exporting the Settings(P. 289)**

  * To export a security policy from the machine and apply it to an imageRUNNER ADVANCE Series model, use the device management software.

Applying a Password-protected Security Policy

- When applying a security policy that is protected with a password from another device to the machine, the same password is set for the security policy on the machine. Thereafter, you can only import a security policy with the same password.

  * The security policy exported from the machine is also set with the same password.

Checking the Security Policy Applied to the Machine

You can check the security policy items and their usage.

Check the security policy using Remote UI from a computer. You cannot use the operation panel to check this information.
Administrator privileges are required.

1 **Log in to Remote UI in System Manager Mode.** **Starting Remote UI(P. 277)**

2 **On the Portal page of Remote UI, click [Settings/Registration].** **Portal Page of Remote UI(P. 280)**

3 **Click [Security Settings] ▶ [Confirm Security Policy].**

➡ The [Confirm Security Policy] screen is displayed.

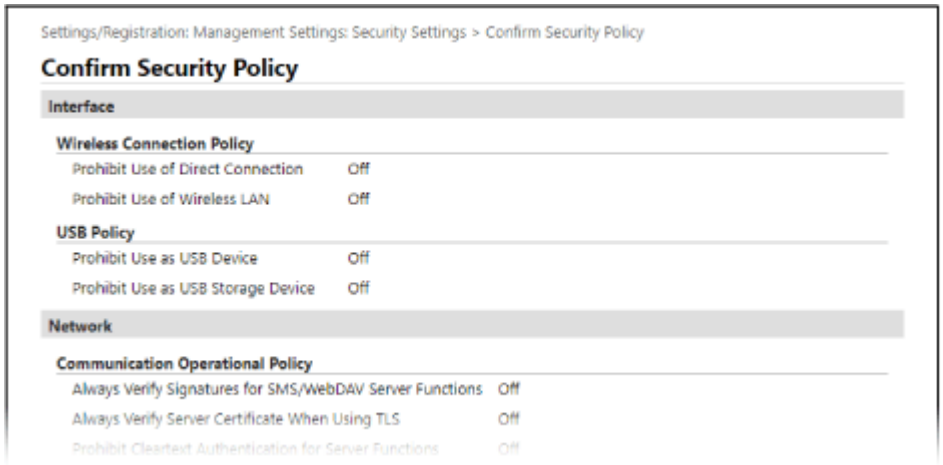
4 **Check the security policy items and their usage.** **Security Policy Items(P. 269)**

5 **Log out from Remote UI after viewing the usage.**

Security Policy Items

864Y-062

You can check the security policy items and their usage from Remote UI on the [Confirm Security Policy] screen.
The content set on another device or software is applied to the security policy for the machine. Therefore, there may be function items in the security policy that are not available on the machine, but these do not affect the settings or operation of the machine.



[Interface](P. 269)
[Network](P. 269)
[Authentication](P. 271)
[Key/Certificate](P. 271)
[Log] (P. 272)
[Job](P. 272)
[Storage] (P. 272)

[Interface]

[Wireless Connection Policy]
You can disable the wireless connection to prevent unauthorized access.

[Prohibit Use of Direct Connection]
You can prohibit access from mobile devices. **[Direct Connection Settings](P. 310)**

[Prohibit Use of Wireless LAN]
You can prohibit wireless access via a wireless LAN router or access point. **[Select Wired/Wireless LAN] (P. 310)**

[USB Policy]
You can disable the USB connection to prevent unauthorized access and data theft.

[Prohibit Use as USB Device]
You can prohibit a computer from connecting to the machine via the USB port. **[USB Settings](P. 324)**

[Prohibit Use as USB Storage Device]
You can prohibit the use of USB memory devices with the machine. **[USB Settings](P. 324)**

[Network]

[Communication Operational Policy]

You can require a signature or certificate verification for safer communication.

[Always Verify Signatures for SMS/WebDAV Server Functions]
As this function is not available on the machine, it is not applied to the security policy.

[Always Verify Server Certificate When Using TLS]
This verifies the certificate including Common Nae (CN) when using TLS-encrypted communication.
* This does not apply to communication with an IEEE 802.1X network.

[Prohibit Cleartext Authentication for Server Functions]
You can limit verification information to secure methods only. When you are using the machine as a server, cleartext authentication and functions using cleartext authentication are not available. **[Dedicated Port Auth. Method](P. 312)**
* If you are using an older version of the device management software or driver, you may not be able to connect to the machine. Use an updated version.

[Prohibit Use of SNMPv1]
You can prohibit use of SNMPv1 when obtaining device information from a computer. **[SNMP Settings] (P. 311)**

[Port Usage Policy]
You can close unused ports to prevent external intrusion.

[Restrict LPD Port (Port Number: 515)]
You can prohibit printing using the LPD protocol. **[LPD Settings](P. 321)**

[Restrict RAW Port (Port Number: 9100)]
You can prohibit printing using the RAW protocol. **[RAW Settings](P. 321)**

[Restrict FTP Port (Port Number: 21)]
As this function is not available on the machine, it is not applied to the security policy.

[Restrict WSD Port (Port Number: 3702, 60000)]
You can prohibit the use of functions using the WSD protocol. **[WSD Settings](P. 321)**

[Restrict BMLinkS Port (Port Number: 1900)]
As this function is not available on the machine, it is not applied to the security policy.

[Restrict IPP Port (Port Number: 631)]
You can disable certain print functions that use mobile apps and prohibit related printing. **Linking with Mobile Devices(P. 189)**

[Restrict SMB Port (Port Number: 137, 138, 139, 445)]
As this function is not available on the machine, it is not applied to the security policy.

[Restrict SMTP Port (Port Number: 25)]
As this function is not available on the machine, it is not applied to the security policy.

[Restrict Dedicated Port (Port Number: 9002, 9006, 9007, 9011-9015, 9017-9019, 9022, 9023, 9025, 20317, 47545-47547)]
You can prohibit the use of dedicated ports. **[Use Dedicated Port](P. 312)**

[Restrict Remote Operator's Software Port (Port Number: 5900)]
As this function is not available on the machine, it is not applied to the security policy.

[Restrict SIP (IP Fax) Port (Port Number: 5004, 5005, 5060, 5061, 49152)]
As this function is not available on the machine, it is not applied to the security policy.

[Restrict mDNS Port (Port Number: 5353)]
You can disable mDNS settings (IPv4/IPv6) and certain print functions that use a mobile app. This disables network discovery and automatic settings using mDNS as well as related printing.
[mDNS Settings](P. 320)

Linking with Mobile Devices(P. 189)

[Restrict SLP Port (Port Number: 427)]
You can disable response to discovery in Multicast Discovery Settings as well as network discovery and automatic settings using SLP. **Configuring SLP Communication(P. 77)**

[Restrict SNMP Port (Port Number: 161)]
You can prohibit the use of functions using the SNMP protocol. This prohibits the machine from obtaining device information from a computer using SNMP and configuring related settings.
[SNMP Settings](P. 311)

[Authentication]

[Authentication Operational Policy]
As this function is not available on the machine, it is not applied to the security policy.

[Prohibit Guest Users to Use Device]

[Force Setting of Auto Logout]

[Password Operational Policy]
As this function is not available on the machine, it is not applied to the security policy.

[Prohibit Caching of Password for External Servers]

[Display Warning When Default Password Is in Use]

[Prohibit Use of Default Password for Remote Access]

[Password Settings Policy]
As this function is not available on the machine, it is not applied to the security policy.

[Minimum Number of Characters for Password]

[Password Validity Period]

[Prohibit Use of 3 or More Identical Consecutive Characters]

[Force Use of at Least 1 Uppercase Character]

[Force Use of at Least 1 Lowercase Character]

[Force Use of at Least 1 Digit]

[Force Use of at Least 1 Symbol]

[Lockout Policy]
You can prohibit login for a while when the wrong password is entered a certain number of times in a row.

[Enable Lockout]
This enables Lockout. Set the Lockout threshold and Lockout period separately on the machine. **[Lockout](P. 396)**

[Key/Certificate]

By preventing weak encryption and encrypting user passwords and keys within a certain hardware, you can protect sensitive data.

[Prohibit Use of Weak Encryption]

You can prohibit the use of weak encryption. **[Encryption Settings](P. 395)**

[Prohibit Use of Key/Certificate with Weak Encryption]
You can prohibit the use of keys and certificates with weak encryption.

[Use TPM to Store Password and Key]
As this function is not available on the machine, it is not applied to the security policy.

[Log]

As this function is not available on the machine, it is not applied to the security policy.

[Force Recording of Audit Log]

[Force SNTP Settings]

[Job]

[Printing Policy]
As this function is not available on the machine, it is not applied to the security policy.

[Prohibit Immediate Printing of Received Jobs]

[Sending/Receiving Policy]
As this function is not available on the machine, it is not applied to the security policy.

[Allow Sending Only to Registered Addresses]

[Force Confirmation of Fax Number]

[Prohibit Auto Forwarding]

[Storage]

As this function is not available on the machine, it is not applied to the security policy.

[Force Complete Deletion of Data]

Managing the Machine

Managing the Machine 274
Setting the Date and Time 275
Managing the Machine from a Computer (Remote UI) 276
Starting Remote UI 277
Portal Page of Remote UI 280
Checking Usage and Logs with Remote UI 282
Monitoring the Usage 284
Checking the Number of Printed Pages (Check Counter) 285
Printing and Viewing Reports and Lists 286
Changing the Report and List Print Settings 288
Importing and Exporting the Settings 289
Updating the Firmware 292
Initializing the Settings and Data 295

Managing the Machine

864Y-0C9

This section describes the management functions that are required to operate the machine.

Monitoring the Operation Status and Usage of the Machine, and Configuring the Settings

Setting the Date and Time

Set the date and time for the machine. The date and time are used as the reference for the functions using date and time information, and therefore, they need to be set accurately.

Setting the Date and Time(P. 275)

Checking the Operation Status and Changing the Settings (Remote UI)

You can use a Web browser on a computer to check the operation status of the machine and change the machine settings. You can manage the machine from a remote location and efficiently perform time-consuming settings and registration on your computer.

Managing the Machine from a Computer (Remote UI)(P. 276)

Monitoring the Usage (Operation Panel)

You can use the operation panel of the machine to check the total number of printed pages and print the settings and other reports and lists.

Monitoring the Usage(P. 284)

Managing Servers, Various Data, and Firmware

Managing the Settings of the Machine

You can use the import and export functions to regularly back up the settings. In addition, you can share the settings with other devices to save time on configuring the settings.

Importing and Exporting the Settings(P. 289)

Updating the Firmware

Update the firmware to add new functions to the machine and to fix bugs. By updating to the latest firmware, you can use the machine with more stable and comfortable operations.

Updating the Firmware(P. 292)

Initializing the Settings and Data

You can initialize all settings and data when replacing or disposing of the machine. Initializing the machine prevents access to confidential information and unauthorized use by third parties.

Initializing the Settings and Data(P. 295)

■ See Also

For the settings required to operate the machine, such as the network settings, see the following:

Setting Up(P. 42)

Setting the Date and Time

864Y-064

Set the date and time for the machine. The date and time set here are used as the reference for the functions using date and time information, and therefore, they need to be set accurately.

This section describes how to configure the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. **[Timer/Energy Settings](P. 306)**

1 Log in to Remote UI. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Timer Settings] ▶ [Edit].

➡ The [Edit Timer Settings] screen is displayed.

4 Enter the current date and time.

5 Set the time zone according to the region where the machine is used.

Communicating over the Internet is premised on setting the UTC (Coordinated Universal Time) correctly. The UTC is a coordinated universal time that is standard for all parts of the world. There is a time difference depending on the country or region where the machine is used.

6 Set daylight saving time as needed.

- Select the [Use Daylight Saving Time] checkbox if the machine is in a country or region with daylight saving time, and then set the start and end dates.

7 Click [OK].

➡ The settings are applied.

8 Log out from Remote UI.

Managing the Machine from a Computer (Remote UI)

864Y-065

With Remote UI, you can use a Web browser on a computer to check the function operation status of the machine and change the machine settings. You can manage the machine from a remote location and efficiently perform time-consuming settings and registration on your computer.

Remote UI has the following two modes. The functions available with Remote UI vary depending on the mode you logged in to.

- **System Manager Mode**
  You can use all functions of Remote UI.
- **General User Mode**
  You can monitor usage, view logs, cancel printing, and change some settings.

Starting Remote UI(P. 277)
Portal Page of Remote UI(P. 280)
Checking Usage and Logs with Remote UI(P. 282)

■ See Also

It is recommended that you set up the following functions to prevent unauthorized use of Remote UI by a third party:

System Manager ID
Set the System Manager ID, which is the exclusive administrator account, so that only users with the ID can log in to System Manager Mode.
Setting the Department ID and PIN for the Administrator(P. 211)

Remote UI Access PIN
If Department ID Management is not set up, configure this setting to require PIN entry when logging in to Remote UI so that only users with the PIN can use Remote UI.
Setting the PIN to Use for Remote UI(P. 261)

Starting Remote UI

864Y-066

To use Remote UI, enter the IP address of the machine into a Web browser on a computer, and log in with System Manager Mode or General User Mode. The functions available with Remote UI vary depending on the mode you logged in to.
When Department ID Management is set up, you must log in with the Department ID. The mode to which you are logging in varies depending on the System Manager ID settings.

Required Preparations

- Check the operating environment of Remote UI. **Supported Environment(P. 37)**
- Connect the computer you are using to operate Remote UI to the machine over a network. **Setting Up the Network(P. 46)**
- Check the IP address of the machine. **Checking the Network Status and Settings(P. 79)**

NOTE

When Department ID Management Is Not Set Up

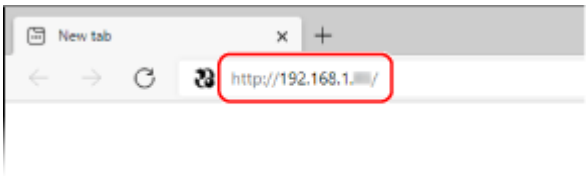
- To log in with Remote UI, you must set the Remote UI Access PIN on the machine. **Setting the PIN to Use for Remote UI(P. 261)**

When Logging in with System Manager Mode

- To log in with System Manager Mode (System Manager ID), you must first change the System Manager PIN from the default setting. **Setting the Department ID and PIN for the Administrator(P. 211)**

1 From a Web browser on a computer, access the following URL.

http://<IP address of the machine>/



➡ The Remote UI login screen appears.
When Remote UI communication is encrypted, a warning message about the security certificate may appear. If there are no problems with the certificate or TLS settings, you can continue operations.

When entering an IPv6 address, enclose the IP address in brackets [ ].

Example:

http://[fe80:2e9e:fcff:fe4e:dbce]/

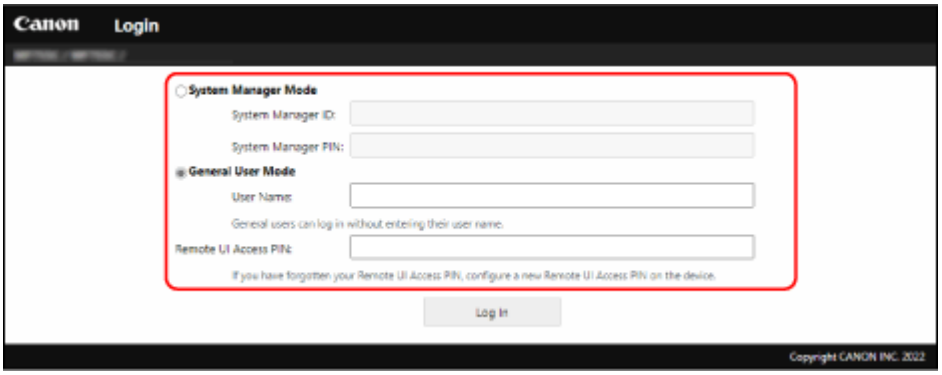
■If the Remote UI Login Screen Is Not Displayed

When a message such as [Cannot access Remote UI.] is displayed and the login screen is not displayed, see the following:
Cannot Access Remote UI(P. 482)

2 Enter the items required for login.

■When Department ID Management is not set up

Select [System Manager Mode] or [General User Mode], and enter the required items according to the setting status.



[System Manager Mode]

When the System Manager ID is set, enter the System Manager ID and System Manager PIN. **System Manager ID and PIN(P. 9)**

* When logging in with System Manager Mode, you must change the System Manager PIN from the default setting. **Setting the Department ID and PIN for the Administrator(P. 211)**

[General User Mode]

You can log in without entering a user name, but enter a print user name when checking and canceling jobs waiting to be printed.

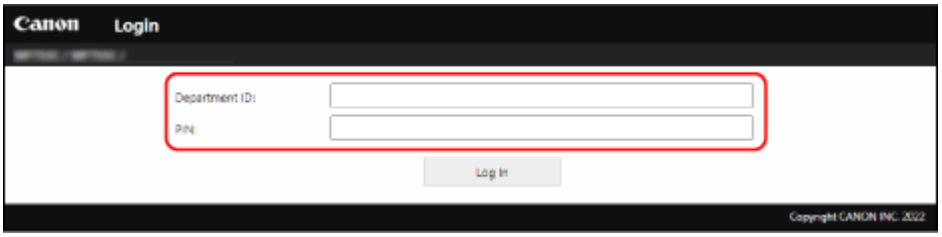
* If a user name is not set in the printer driver, the logon user name of the computer that sent the print data is set automatically.

[Remote UI Access PIN]

When the Remote UI Access PIN is set, enter the PIN.

■When Department ID Management is set

Enter the Department ID and PIN.



When the System Manager ID is set

When logging in with System Manager Mode, enter the System Manager ID and System Manager PIN.
When a Department ID other than the System Manager ID is entered, you will log in with General User Mode.

When the System Manager ID is not set

No matter which Department ID is entered, you will log in with System Manager Mode. **System Manager ID and PIN(P. 9)**

* When logging in with System Manager Mode, you must change the System Manager PIN from the default setting. **Setting the Department ID and PIN for the Administrator(P. 211)**

3 Click [Log In].

➠ The Portal page of Remote UI appears. **Portal Page of Remote UI(P. 280)**

4 When you have completed your operations, click [Log Out].

➠ The login screen appears after logging out from Remote UI.

IMPORTANT

- Do not access other websites when using Remote UI.

NOTE

Setting the Time Until the User Is Automatically Logged Out

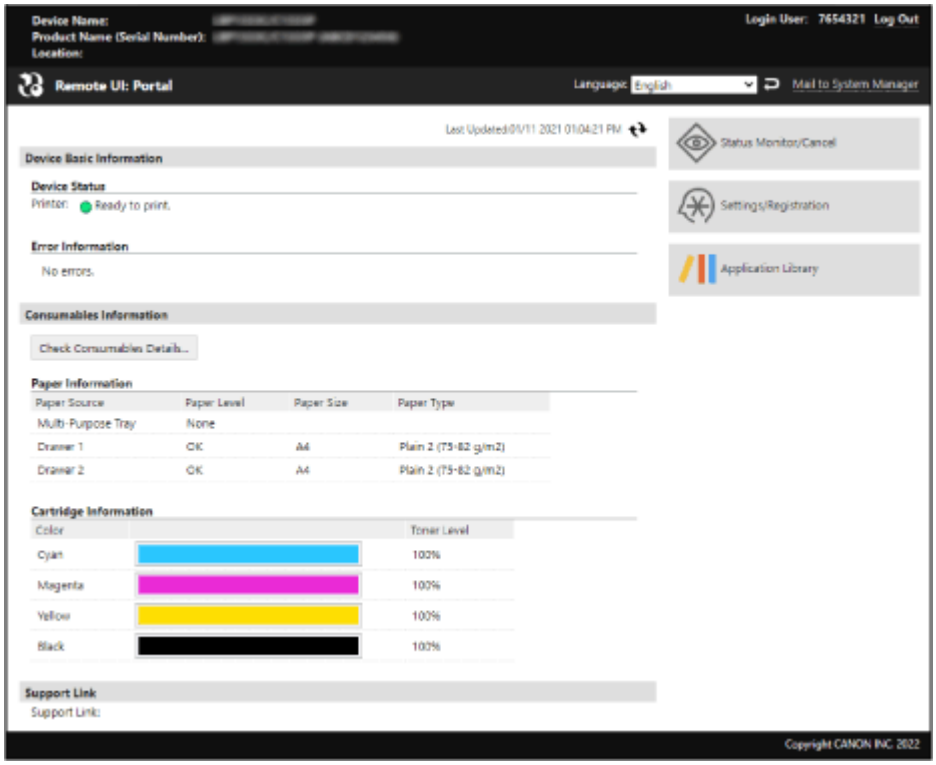
- The user is automatically logged out from Remote UI if no operations are performed for a certain period of time. Use the following procedure to set the time until the user is logged out.

  Log in to Remote UI in System Manager Mode ▶ [Settings/Registration] ▶ [Network Settings] ▶ [Session Settings] ▶ [Edit] ▶ enter the time until the user is logged out ▶ [OK]

Portal Page of Remote UI

864Y-0CA

When you log in to Remote UI, the Portal page (Remote UI top page) appears. From here you can check the operations status of the machine, view various information, and change the settings with button operations.



[Device Name]
Displays the device name set in [Settings/Registration] ▶ [Device Management] ▶ [Device Information Settings].

[Product Name]/[Product Name (Serial Number)]
Displays the product name of the machine.
Depending on the model, the serial number may also be displayed.

[Location]
Displays the installation location set in [Settings/Registration] ▶ [Device Management] ▶ [Device Information Settings].

[Login User]
Displays the information of the logged in user.

[Log Out]
You are logged out of Remote UI, and the login screen is displayed.

[Language]
You can change the display language of Remote UI.
* The display languages of the computer and Remote UI must be the same. If the display languages are not the same, the entered information may not be displayed correctly, or you may not be able to reference a folder, server, or other specified destination.

[Mail to System Manager]
Creates e-mail for the administrator indicated in [Settings/Registration] ▶ [User Management] ▶ [System Manager Information].

[Last Updated]
Displays the date and time that the information displayed on the Portal page was last updated.
Click [ ] to the right of the date and time to update these.

[Device Basic Information]
Displays the current status and error information of the machine.
When an error occurs, this displays a link to the error information screen.

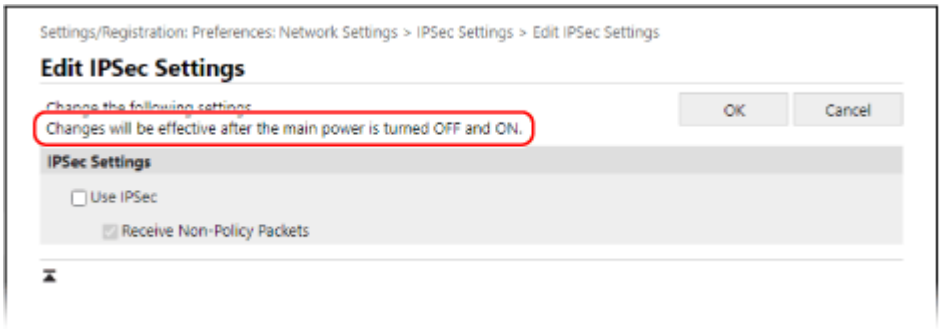
[Consumables Information]
Displays the paper source information and remaining amount of ink in the toner cartridges.
Click [Check Consumables Details] to display the toner cartridge name.

[Support Link]
Displays a link to support information for this machine that is set in [Settings/Registration] ▶ [License/Other] ▶ [Support Link].

[Status Monitor/Cancel]
Click this to display the [Status Monitor/Cancel] screen.
From here, you can check the status and logs of a function, operation status of the machine, and error information. **Checking Usage and Logs with Remote UI(P. 282)**

[Settings/Registration]
Click this to display the [Settings/Registration] screen.
If you logged in with System Manager Mode, you can change any settings and perform operations such as saving and importing data.

- The items that can be set in the [Settings/Registration] screen are nearly the same as those of the operation panel, but some items can only be set with either the operation panel or Remote UI. **Settings Menu Items(P. 299)**
- Depending on the item, you may have to restart the machine for the settings to be applied. If a restart is required, a message appears at the top of the screen.



[Application Library] (System Manager Mode only)
Click this to display the setting screen for the Application Library.
For details about the Application Library, see the manual of the Application Library at the online manual site.

Checking Usage and Logs with Remote UI

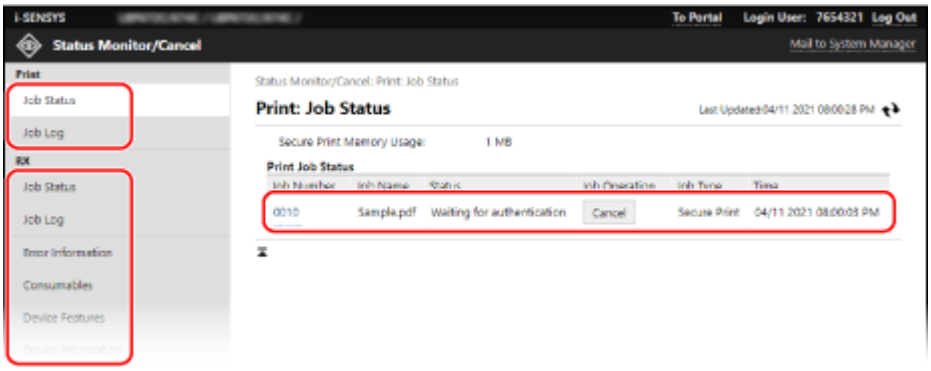
864Y-068

From Status Monitor/Cancel in Remote UI, you can check the status and logs of a function, operation status of the machine, and error information.

1 Log in to Remote UI. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Status Monitor/Cancel]. Portal Page of Remote UI(P. 280)

3 Select an item to view the status or log.



[Print]

[Job Status]

Displays the status (Printing or Waiting) of printed data from a computer.
This displays the status of all print jobs regardless of the Department ID Management setting.
If you entered your user name in [User Name] when you logged in with General User Mode, only the print job status for that user is visible.

- Click [Job Number] for paused prints and secure prints to display print details and view the user name and number of printed sheets.
- Click [Cancel] in [Job Operation] to delete the print data for jobs that are printing or waiting.

[Job Log]

Displays the print job log from a computer.

[RX]

[Job Status]

Displays the RX job status for I-Fax jobs.

[Job Log]

Displays the RX job log for I-Fax jobs.

[Error Information]

Displays information of errors occurring on the machine.

* You can view the same information by clicking the link displayed in [Error Information] on the Portal page.

[Consumables]

Displays the paper size and type of each paper source and the toner cartridge name.

* You can view the same information by clicking [Check Consumables Details] on the Portal page.

[Device Features]

Displays the specifications of the machine and the status of optional equipment.

[Device Information]

Displays information of the machine, such as the product name and serial number, as well as the firmware version and system manager information.

- [Device Name] and [Location] display the information set in [Settings/Registration] ▶ [Device Management] ▶ [Device Information Settings].
- [System Manager Information] displays the information set in [Settings/Registration] ▶ [User Management] ▶ [System Manager Information].

[Check Counter]

Displays the total number of pages printed to date. **Checking the Number of Printed Pages (Check Counter)(P. 285)**

[Cartridge Log]

Displays a usage record for each color in the toner cartridge.
To change the displayed color, select the color from the pulldown menu, and click [Display].

[Eco Information]

Displays the average number of sheets output and average power consumption per month.

4 Log out from Remote UI after viewing the usage.

Monitoring the Usage

864Y-069

You can use the operation panel of the machine to check the total number of printed pages and print the machine settings and other reports and lists.

Checking the Number of Printed Pages (Check Counter)(P. 285)
Printing and Viewing Reports and Lists(P. 286)

■ See Also

You can also check the counter using Remote UI from a computer. In Remote UI, you can also check the status and logs of a function, operation status of the machine, and error information.
Checking Usage and Logs with Remote UI(P. 282)

Checking the Number of Printed Pages (Check Counter)

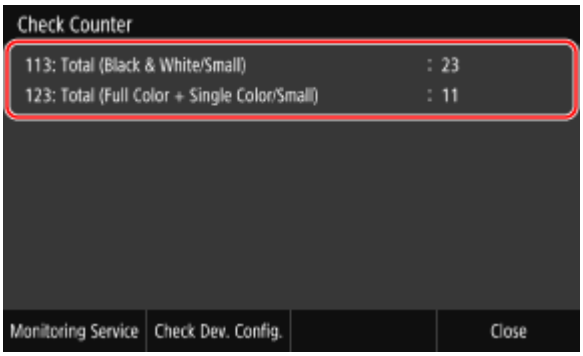
864Y-06A

You can display a counter showing the total number of pages printed to date by black & white and color.
The number of printed pages includes printed reports and lists.

This section describes how to check the number of printed pages using the operation panel.
You can also check this information using Remote UI from a computer. **Checking Usage and Logs with Remote UI(P. 282)**

1 On the operation panel, press [Check Counter] in the [Home] screen. [Home] Screen(P. 97)

2 Check the number of printed pages.



[113: Total (Black & White/Small)]

Displays the total number of printed pages in black & white.

[123: Total (Full Color + Single Color/Small)]

Displays the total number of printed pages in color.

NOTE

Operations Available on the Check Counter Screen

- The items displayed on the screen vary depending on your country or region.
- Press [Monitoring Service] to check the connection to the monitoring server. Perform this operation to send the information of the machine regularly to the monitoring server.
- Press [Check Dev. Config.] to check the configuration of options on the machine.

Printing and Viewing Reports and Lists

864Y-06C

You can print and view reports and lists including machine usage and settings.

Types of Reports and Lists(P. 286)
Printing Reports and Lists(P. 287)

NOTE

2-Sided Printing of Reports and Lists

- Reports and lists are printed on paper on one side by default. You can change the setting to print on both sides. **Changing the Report and List Print Settings(P. 288)**

Types of Reports and Lists

Machine Usage Reports
You can print and view the following reports related to usage of the machine including power consumption and status of consumables:

- **Eco Report**
  Displays the number of printed pages and power consumption per month. You can see how to save paper and power based on this information.
- **Consumables Status Report**
  Displays the status of consumables installed in the machine.
- **PCL Font List**
  Displays the fonts available in PCL mode.
- **PS Font List**
  Displays the fonts available in PS mode.
- **Cartridge Log Report**
  Displays a log of toner cartridge usage.
- **Department ID Management Report**
  Displays the number of printed pages and other usage for each Department ID when Department ID Management is enabled.

Settings Lists
You can print and view the following lists that summarize the registration information and settings of the machine:

- **User Data List**
  Displays the serial number and other machine information as well as the settings that do not require administrator privileges.
- **System Manager Data List**
  Displays the serial number and other machine information as well as the settings that require administrator privileges.
- **IPSec Policy List**
  Displays the settings of the IPSec policies registered to the machine.

Printing Reports and Lists

Print reports and lists using the operation panel. You cannot print these using Remote UI from a computer. Administrator privileges are required to print the following reports and lists:

- Department ID Management Report
- System Manager Data List
- IPSec Policy List

1 On the operation panel, press [Menu] in the [Home] screen. [Home] Screen(P. 97)

2 Press [Output Report] ▶ [Print List].

➡ The [Print List] screen is displayed.

3 Select the report or list to print.

➡ A screen confirming the paper available for printing is displayed.

If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

4 Check that printable paper is set in the machine, and press [Start].

➡ The report or list is printed.

Changing the Report and List Print Settings

864Y-06E

Reports and lists are printed on paper on one side by default. You can change the setting to print on both sides.

Use the operation panel to configure the settings. You cannot configure the settings using Remote UI from a computer.

1 On the operation panel, press [Menu] in the [Home] screen. [Home] Screen(P. 97)

2 Press [Output Report] ▶ [Report Settings].

➡ The [Report Settings] screen is displayed.

3 Press [Default Settings for Report Output].

➡ The [Default Settings for Report Output] screen is displayed.

4 Set [2-Sided Printing] to [On], and press [Apply].

Importing and Exporting the Settings

864Y-06F

You can write the settings to files and save (export) them to a computer. You can also load an exported file and apply (import) the settings to the machine.
You can use the import and export functions to back up the settings in case of an accident.
In addition, an exported file can be imported to another device[*1] to enable sharing of the settings with another device without having to configure settings.

Some items cannot be imported or exported. **Settings that Can Be Imported and Exported(P. 397)**

[*1] The settings of the machine can only be applied to the same model.

Exporting the Settings(P. 289)
Importing the Settings(P. 290)

IMPORTANT

Do Not Turn OFF the Machine until the Import or Export Is Complete.

- It may take a few minutes until the process is completed. Turning OFF the machine during processing may cause data corruption or damage the machine.

Do Not Operate the Machine during Import or Export.

- Before import or export, check that the machine is not printing or performing other operations.

Exporting the Settings

Select the items to export and write them to a file.

This section describes how to export the settings using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Management Settings] to export. When exporting from the operation panel, use a USB memory device. **[Import/Export](P. 393)**
Administrator privileges are required.

1 Log in to Remote UI in System Manager Mode. **Starting Remote UI(P. 277)**

2 On the Portal page of Remote UI, click [Settings/Registration]. **Portal Page of Remote UI(P. 280)**

3 Click [Data Management] ▶ [Export].

➡ The [Export] screen is displayed.

4 In [Select Item to Export], select the items to export.

■When Exporting the Settings of the Machine
Select the [Settings/Registration] checkbox.

■When Exporting the Settings of the Application Library

Select the [Application Library Settings Information] checkbox.

5 In [Encryption Password], set a password.

- Enter the same password in [Encryption Password] and [Confirm] using single-byte alphanumeric characters.
- A password is required to import exported data.

6 Click [Start Exporting] to save the exported data as a file to a computer.

7 Log out from Remote UI.

Importing the Settings

Specify the exported file and select the items to be imported.
The device configuration information file (*.dcm) is available for the file format to import.

This section describes how to import files using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then select [Management Settings] to import. When importing from the operation panel, use a USB memory device. **[Import/Export](P. 393)**
Administrator privileges are required. Depending on the items to be imported, the machine restarts automatically.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Data Management] ▶ [Import].

➡ The [Import] screen is displayed.

4 Click [Browse] in [File Path], and specify the file to be imported.

5 Enter the decryption password.

Enter the password set at export.

6 In [Select Item to Import], select the items to import.

■When Importing the Settings of the Machine

Select the [Settings/Registration] checkbox.

■When Importing the Settings of the Application Library

Select the [Application Library Settings Information] checkbox.

7 Click [Start Importing] ▶ [OK].

➠ The selected file is imported to the machine.

8 When the screen indicating that importing has completed appears, click [OK].

When [Settings/Registration] is selected in Step 6 and the import is complete, the machine restarts automatically.

9 Log out from Remote UI.

Updating the Firmware

864Y-06H

When functions are added or the software version is upgraded, the firmware of the machine is updated.
Check the version of the firmware, and update the firmware via the Internet or a computer according to the usage environment of the machine.

✔ : Can be updated — : Cannot be updated

Usage environment of the machine	Connection via Internet	Connection via computer
Wired LAN connection	✔	✔
Wireless LAN connection	✔	—
USB connection	—	✔
Use IPv6	—	—

* You cannot update the firmware in an IPv6 Environment. Connect the machine to a computer via USB, and update from the computer.

Checking the Firmware Version(P. 292)
Updating the Firmware via the Internet(P. 293)
Updating the Firmware via a Computer(P. 293)

Checking the Firmware Version

Check the current version of the firmware before updating it, and then check the version after updating to see if the update was performed correctly.

This section describes how to check the firmware version using the operation panel.
You can also use Remote UI from a computer to check the firmware version. **Managing the Machine from a Computer (Remote UI)(P. 276)**
Administrator privileges are required.

1 On the operation panel, press [Menu] in the [Home] screen. **[Home] Screen(P. 97)**

2 Press [Management Settings] ▶ [License/Other][*1] ▶ [Update Firmware].

➡ The [Update Firmware] screen is displayed.

If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

[*1] Depending on the model, [Remote UI Settings/Update Firmware] may appear.

3 Select [Version Information].

➡ Displays the current version of the firmware.

Updating the Firmware via the Internet

Use the operation panel to update the firmware via the Internet. You cannot update it using Remote UI from a computer.
Administrator privileges are required. When the firmware has been updated, the machine restarts automatically.

Required Preparations

- Connect the machine to the Internet. **Setting Up the Network(P. 46)**

1 On the operation panel, press [Update Firmware] in the [Home] screen. [Home] Screen(P. 97)

➡ The machine accesses the Canon server to see if new firmware is available.
When [This is the latest firmware version.] appears, no update is available.

If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

2 In the licensing screen, press [Accept].

➡ The firmware update confirmation screen is displayed.

3 Press [OK].

➡ Downloading of the firmware starts.
When the download is complete, the machine restarts automatically, and the firmware is updated.

IMPORTANT

- Do not turn OFF the machine until the restart is complete.

Updating the Firmware via a Computer

Update the firmware from a computer connected to the machine via wired LAN or USB.

Required Preparations

- Download the latest firmware from the Canon website for your country/region to the computer performing the update.
https://global.canon/en/support/

■How to Update from a Computer

See the "User Support Tool Operation Guide" included with the firmware.

■To Put the Machine into Update Waiting State (Download Mode)

Use the following procedure.

Use the operation panel to perform this operation. You cannot perform this operation using Remote UI from a computer.
Administrator privileges are required.

1 On the operation panel, press [Menu] in the [Home] screen. [Home] Screen(P. 97)

2 Press [Management Settings] ▶ [License/Other]*1 ▶ [Update Firmware].

➡ The [Update Firmware] screen is displayed.

If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

*1 Depending on the model, [Remote UI Settings/Update Firmware] may appear.

3 Press [Via PC] ▶ [Yes].

➡ Switches the machine to download mode and puts it into update waiting state.

Initializing the Settings and Data

864Y-06J

You can initialize the settings and registered data to reset the machine to the factory settings. You can initialize specified settings and data only or initialize all settings and data.

Initializing Specific Settings and Data
You can initialize the following items separately:

- Settings menu: Initializes the settings of [Menu] in the [Home] screen.
- Key and Certificate: Initializes the settings of the key and certificate as well as CA certificate, and clears everything except the pre-installed key and certificate.

Initializing Specific Settings and Data(P. 295)

Initializing All Settings and Data
You can reset all settings to the factory settings, and clear all stored data including logs. Initialization is performed to prevent access to confidential information and unauthorized use such as when replacing or disposing of the machine.
Initializing All Settings and Data(P. 296)

Initializing Specific Settings and Data

This section describes how to initialize settings and data using Remote UI from a computer.
On the operation panel, select [Menu] in the [Home] screen, and then perform initialization from [Preferences] or [Management Settings]. **[Initialize Network Settings](P. 314)** / **[Data Management](P. 393)**
Administrator privileges are required. Depending on the item to be initialized, you may have to restart the machine.

1 Log in to Remote UI in System Manager Mode. Starting Remote UI(P. 277)

2 On the Portal page of Remote UI, click [Settings/Registration]. Portal Page of Remote UI(P. 280)

3 Click [Data Management].

➡ The [Data Management] screen is displayed.

4 Select the item to initialize.

■Initializing the Settings Menu
Click [Initialize Menu], and select the setting to be initialized from [Menu to Initialize].

■When Initializing a Key and Certificate
Click [Initialize Key and Certificate].

5 Click [Initialize] ▶ [OK].

➡ The specified item is initialized.

6 Log out from Remote UI.

■When the Settings Menu Is Initialized

When any of the following is initialized, restart the machine to apply the initialized settings. **Restarting the Machine(P. 90)**

- [Preferences]
- [Function Settings]
- [Management Settings]
- [Network Settings]

NOTE

When Initializing a Key and Certificate

- Functions using a key and certificate such as TLS or IKE of IPSec are disabled. To use these functions again, you must set the key and certificate, and then enable the function.

When [Management Settings] of the Settings Menu Is Initialized

- This also initializes the Remote UI Access PIN. To use Remote UI, you must set the Remote UI Access PIN again. **Setting the PIN to Use for Remote UI(P. 261)**

Initializing All Settings and Data

Use the operation panel to initialize all settings and data. You cannot initialize these using Remote UI from a computer. Administrator privileges are required. When these are initialized, the machine restarts automatically.

IMPORTANT

- Before initialization, check that there is no data being processed or waiting to be processed. This data is deleted when the initialization is performed.

1 **On the operation panel, press [Menu] in the [Home] screen.** **[Home] Screen(P. 97)**

2 **Press [Management Settings] ▶ [Initialize All Data/Settings].**

➡ The initialization confirmation screen is displayed.

If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

3 **Press [Yes] ▶ [Yes].**

➡ All settings and data are initialized.

When initialization is complete, the machine restarts automatically.

Settings Menu Items

Settings Menu Items 299
[Preferences] 300
[Display Settings] 302
[Timer/Energy Settings] 306
[Network] 310
[Wireless LAN Settings] 315
[TCP/IP Settings] 317
[External Interface] 324
[Accessibility] 325
[Adjustment/Maintenance] 326
[Adjust Image Quality] 327
[Auto Correction Settings] 329
[Special Processing] 331
[Maintenance] 337
[Function Settings] 338
[Common] 340
[Paper Feed Settings] 341
[Print Settings] 343
[Printer] 344
[Printer Settings] 345
[PDL Selection (Plug and Play)] 375
[Receive] 377
[Common Settings] 378
[E-Mail Settings] 379
[Access Files] 380
[Common Settings] 381
[Management Settings] 386
[User Management] 388
[Device Management] 389
[Remote UI Settings/Update Firmware] 391
[Remote UI Settings] 392
[Data Management] 393
[Security Settings] 395
[Authentication/Password Settings] 396
Settings that Can Be Imported and Exported 397

[Preferences] 398
[Adjustment/Maintenance] 402
[Function Settings] 403
[Management Settings] 406

Settings Menu Items

864Y-06K

This section describes the items available in the settings menu displayed when you press [Menu] in the [Home] screen on the operation panel.
From the settings menu, you can run functions and modify the settings according to the machine's operating environment or its usage.
Administrator privileges are required to view or change some settings. Note also that the machine may need to be restarted for changed settings to take effect.

[Preferences](P. 300)
[Adjustment/Maintenance](P. 326)
[Function Settings](P. 338)
[Management Settings](P. 386)

Support for Importing and Exporting Setting Data

The settings menu items can be used with the Import and Export functions to regularly back up your settings or share them with other machines.
Check this list to see which settings can be imported and exported.
Settings that Can Be Imported and Exported(P. 397)

See Also

If a Login Screen Appears

If a System Manager ID has been set, a login screen may appear when certain items are selected. Once you enter the required information and the login is authenticated, you can view or change the settings.
Logging In to the Machine(P. 110)

If the Machine Must be Restarted

After changing the settings, restart the machine.
Restarting the Machine(P. 90)

Settings Not Included in the Menus

The Paper Settings items appear when you press [Paper Settings] in the [Home] screen.
Specifying the Paper Size and Type(P. 124)

The volume adjustment items appear when you press the Sound Volume key ( ).
Adjusting the Sound Volume(P. 139)

Configuring Settings from Remote UI

The settings menu items can also be specified from a computer using Remote UI. In Remote UI, specify the settings from [Settings/Registration] in the Portal page.
The items that can be specified in [Settings/Registration] in Remote UI are almost identical to those in the operation panel settings menu, but there are also items that can be specified only from the operation panel or only from Remote UI. Note also that some of the item names differ in Remote UI.
Managing the Machine from a Computer (Remote UI)(P. 276)

Checking the Settings

You can check a list of the current settings by printing them out.
Printing and Viewing Reports and Lists(P. 286)

[Preferences]

864Y-06L

These are settings used to configure features such as the operation panel screen displays and the network settings according to the environment in which the machine is used.
* Values in bold red text indicate the default setting for each item.

[Display Settings](P. 300)
[English Keyboard Layout](P. 300)
[Timer/Energy Settings](P. 300)
[Network](P. 300)
[External Interface](P. 300)
[Accessibility](P. 301)

[Display Settings]

[Menu] ▶ [Preferences]

Configure the operation panel screen displays.
[Display Settings](P. 302)

[English Keyboard Layout]

[Menu] ▶ [Preferences]

Specify the layout for a USB keyboard connected to the machine.

[USA Layout]
[**UK Layout**]

[Timer/Energy Settings]

[Menu] ▶ [Preferences]

Set the date and time and specify the Energy Saver settings.
[Timer/Energy Settings](P. 306)

[Network]

[Menu] ▶ [Preferences]

Configure the network environment for the machine.
[Network](P. 310)

[External Interface]

[Menu] ▶ [Preferences]

Configure the USB connection.
[External Interface](P. 324)

[Accessibility]

[Menu] ▶ [Preferences]

Configure operation panel screen features such as screen color inversion and message display time to make the screen easier to see.
[Accessibility](P. 325)

[Display Settings]

864Y-06R

Configure the operation panel screen displays.
* Values in bold red text are the default settings for each item.

- **[Default Screen After Startup/Restoration] (P. 302)**
- **[Home Screen Button Display Settings](P. 302)**
- **[Language](P. 302)**
- **[Remote UI Language](P. 303)**
- **[Millimeter/Inch Entry Switch](P. 304)**
- **[Display Timing for Cart. Prep.](P. 304)**
- **[Display Notif. to Clean Fixing Assembly] (P. 304)**
- **[Show Warnings](P. 305)**
- **[Action When Warning](P. 305)**
- **[Display IP Address](P. 305)**

[Default Screen After Startup/Restoration]

[Menu] ▶ [Preferences] ▶ [Display Settings]

Specify the screen displayed after the start screen appears when the machine is turned ON and immediately after an Auto Reset.

[**Home**]
[Secure Print]
[Status Monitor]

[Home Screen Button Display Settings]

[Menu] ▶ [Preferences] ▶ [Display Settings]

Rearrange the buttons or change the display order of the items so that you can run frequently used functions more quickly from the [Home] screen of the operation panel. **Customizing the [Home] Screen(P. 106)**

[Language]

[Menu] ▶ [Preferences] ▶ [Display Settings]

Change the language shown on the operation panel and used in printed reports.

* Depending on your country or region, the [Language] setting may not be available, or its content or default setting may be different.

[Català]
[Čeština]
[Dansk]
[Deutsch]
[Eesti]
[**English**]
[Español]
[Euskara]
[Français]
[Hrvatski]
[Italiano]
[Latviešu]
[Lietuvių]
[Magyar]
[Nederlands]
[Norsk]
[Polski]
[Português]
[Română]
[Slovenčina]
[Slovenščina]
[Suomi]
[Svenska]
[Türkçe]
[Ελληνικά]
[Български]
[Русский]
[Українська]
[العربية]
[日本語]
[中文(繁體)]
[中文(简体)]
[한국어]

[Remote UI Language]

[Menu] ▶ [Preferences] ▶ [Display Settings]

Change the language shown on Remote UI screens.

* Depending on your country or region, the [Remote UI Language] setting may not be available, or its content or default setting may be different.

[**English**]
[Japanese]
[French]
[Spanish]
[German]
[Italian]
[Dutch]
[Finnish]
[Portuguese]
[Norwegian]
[Swedish]
[Danish]
[Czech]
[Hungarian]
[Russian]
[Turkish]
[Polish]
[Chinese (Simplified)]
[Chinese (Traditional)]
[Korean]

[Millimeter/Inch Entry Switch]

[Menu] ▶ [Preferences] ▶ [Display Settings]

Change the units shown on the screen for entering length and width.

[**Millimeter**]
[Inch]

[Display Timing for Cart. Prep.]

[Menu] ▶ [Preferences] ▶ [Display Settings]

When the toner in a toner cartridge runs low, a message appears notifying you to prepare a new toner cartridge. To manually specify when this message appears (the toner level in a cartridge), set [Auto] to [Off] and specify the timing in [Custom].
When [Auto] is set to [On], the machine automatically decides when to display the message.

[Auto]
  [Off]
    [Custom]
      2 to **20** to 99 (%)
  [**On**]

[Display Notif. to Clean Fixing Assembly]

[Menu] ▶ [Preferences] ▶ [Display Settings]

Select whether to notify you by displaying a message when the fixing assembly requires cleaning.

[**Off**]

[On]

[1000 to 50000]

[Show Warnings]

[Menu] ▶ [Preferences] ▶ [Display Settings]

Specify whether a notification message is displayed when a toner cartridge is low on toner.

* If the machine is configured to stop printing when a toner cartridge is low on toner, this cannot be set to [Off]. **[Action When Warning](P. 305)**

* If the machine is configured not to print incoming I-Faxes when a toner cartridge is low on toner, the message appears even when this is set to [Off]. **[Continue Print. When Cart. Low](P. 378)**

[Off]
[**On**]

[Action When Warning]

[Menu] ▶ [Preferences] ▶ [Display Settings]

Specify whether to continue printing when a toner cartridge is low on toner.
If this is set to [Stop Printing], a notification message appears when the toner cartridge runs low on toner. **[Show Warnings](P. 305)**

[Low Cartridge Level]
[**Continue Printing**]
[Stop Printing]

[Display IP Address]

[Menu] ▶ [Preferences] ▶ [Display Settings]

Specify whether to display the machine's IPv4 address in the [Status Monitor] screen. **[Status Monitor] Screen(P. 99)**

[Off]
[**On**]

[Timer/Energy Settings]

864Y-06S

Set the date and time and specify the Energy Saver settings.
* Values in bold red text are the default settings for each item.

[Current Date/Time Settings](P. 306)
[Date/Time Settings](P. 306)
[Date Format](P. 307)
[Time Format](P. 307)
[Auto Reset Time](P. 307)
[Function After Auto Reset](P. 307)
[Auto Shutdown Time](P. 308)
[Auto Sleep Time](P. 308)
[Auto Sleep Daily Timer](P. 308)
[Time Set. for Auto Adjust Grad.](P. 309)
[Sleep Mode Exit Time Settings](P. 309)

[Current Date/Time Settings]

[Menu] ▶ [Preferences] ▶ [Timer/Energy Settings]

Set the date and time for the machine. The date and time set here are used as a reference for the functions that use date and time information. **Setting the Date and Time(P. 275)**
Before configuring this setting, check that the correct time zone is selected. **[Date/Time Settings](P. 306)**

* The current date and time cannot be changed for one hour after Daylight Saving Time is set.

[Date/Time Settings]

[Menu] ▶ [Preferences] ▶ [Timer/Energy Settings]

Set the time zone (UTC*1) and Daylight Saving Time according to the region where the machine is installed.

*1 The UTC (Coordinated Universal Time) is a coordinated universal time that is standard for all parts of the world. Internet-based communication relies on the UTC being set correctly.

* Depending on your country or region, the [Date/Time Settings] setting may not be displayed, or its content or default setting may be different.

* When you change the time zone, the current time setting is automatically changed accordingly. **[Current Date/Time Settings](P. 306)** .

* If daylight saving time is enabled, specify the dates from which and to which daylight saving time is in effect.

[Time Zone]
[(UTC-12:00) International Date Line West] to [**(UTC) Coordinated Universal Time**] to [(UTC+14:00) Kiritimati Island]

[Daylight Saving Time Settings]
[Off]
[**On**]
[Start Date]: Month, Week, Day
[End Date]: Month, Week, Day

[Date Format]

[Menu] ▶ [Preferences] ▶ [Timer/Energy Settings]

Set the order in which the year, month, and day are displayed.

* Depending on your country or region, the [Date Format] setting may not be available, or its content or default setting may be different.

[YYYY MM/DD]
[MM/DD/YYYY]
[**DD/MM YYYY**]

[Time Format]

[Menu] ▶ [Preferences] ▶ [Timer/Energy Settings]

Set 12 Hour or 24 Hour as the format for displayed time.

[**12 Hour (AM/PM)**]
[24 Hour]

[Auto Reset Time]

[Menu] ▶ [Preferences] ▶ [Timer/Energy Settings]

If the operation panel is not used for a set period, a function called “Auto Reset Time” automatically restores the default settings. This setting specifies whether Auto Reset is invoked.
If you enable Auto Reset, you can then set the time after which it is triggered.

* You can also change the screen that is displayed after an Auto Reset. **[Function After Auto Reset](P. 307)**

[Set This Function]
  [Off]
  [**On**]
    [Set Time]
      1 to **2** to 9 (min.)

NOTE

Situations Where Auto Reset is Not Triggered

- When the Error lamp on the operation panel is flashing **Operation Panel(P. 17)**
- When the [Menu] screen or an error message[*1] is displayed on the operation panel
- When processing of some sort (such as printing) is in progress

[*1] Auto Reset is performed for some messages.

[Function After Auto Reset]

[Menu] ▶ [Preferences] ▶ [Timer/Energy Settings]

Set the screen displayed after an Auto Reset.

- To view the specified screen, specify the screen in [Default Function]. Specify the displayed screen in [Default Screen After Startup/Restoration]. **[Default Screen After Startup/Restoration](P. 302)**
- To display the screen for the function being used before the Auto Reset, specify the screen in [Selected Function].

[**Default Function**]
[Selected Function]

[Auto Shutdown Time]

[Menu] ▶ [Preferences] ▶ [Timer/Energy Settings]

Set a timer to automatically shut down the machine after a specified period of idle time has elapsed since the machine entered the sleep mode.

* When the [Auto Shutdown Time] setting is enabled, the machine may automatically shut down even if you are operating the machine from Remote UI. A malfunction may occur, particularly if the machine shuts down while data is being imported. When you import data using Remote UI, set [Auto Shutdown Time] to [Off] in advance.

* If any settings of the [Timer Settings] are changed from Remote UI while the machine is in the sleep mode, the timer for the [Auto Shutdown Time] setting is reset to the beginning. The machine automatically shuts down after a specified period of idle time has elapsed since the timer was reset.

* Depending on your country or region, the [Auto Shutdown Time] setting may not be available, or its content or default setting may be different.

[Set This Function]
  [Off]
  [**On**]
    [Set Time]
    1 to **4** to 8 (hr.)

[Auto Sleep Time]

[Menu] ▶ [Preferences] ▶ [Timer/Energy Settings]

Set the time after which the machine automatically goes into sleep mode. **Reducing Power Consumption (Sleep Mode)(P. 92)**

* Use of the default settings is recommended to achieve the most effective power savings.

1 to 60 (min.)

[Auto Sleep Daily Timer]

[Menu] ▶ [Preferences] ▶ [Timer/Energy Settings]

Configure the machine to automatically enter sleep mode at a specified time. **Reducing Power Consumption (Sleep Mode)(P. 92)**

[Set This Function]
  [**Off**]
  [On]
    (0:00 to 12:59 AM/PM)

[Time Set. for Auto Adjust Grad.]

[Menu] ▶ [Preferences] ▶ [Timer/Energy Settings]

Configure the setting to perform Auto Adjust Gradation (Quick Adjust) automatically at a specified time. **Calibrating the Gradation(P. 424)**

[Set This Function]
[**Off**]
[On]
(0:00 to 12:59 AM/PM)

[Sleep Mode Exit Time Settings]

[Menu] ▶ [Preferences] ▶ [Timer/Energy Settings]

Configure the machine to automatically exit sleep mode at a specified time. **Reducing Power Consumption (Sleep Mode)(P. 92)**

[Set This Function]
[**Off**]
[On]
(0:00 to 12:59 AM/PM)

[Network]

864Y-06U

Specify the settings for the machine's network environment.
* Values in bold red text are the default settings for each item.

- **[Select Wired/Wireless LAN](P. 310)**
- **[Wireless LAN Settings](P. 310)**
- **[Direct Connection Settings](P. 310)**
- **[Easy Connection via PC](P. 311)**
- **[TCP/IP Settings](P. 311)**
- **[SNMP Settings](P. 311)**
- **[Use Dedicated Port](P. 312)**
- **[Dedicated Port Auth. Method](P. 312)**
- **[Wait Time for Conn. at Startup](P. 312)**
- **[Ethernet Driver Settings](P. 312)**
- **[Use IEEE 802.1X](P. 313)**
- **[Firewall Settings](P. 313)**
- **[Device Settings Management](P. 314)**
- **[RMT-SW](P. 314)**
- **[Initialize Network Settings](P. 314)**

[Select Wired/Wireless LAN]

[Menu] ▶ [Preferences] ▶ [Network]

Set whether to connect the machine to the network using a wired or wireless LAN. **Selecting Wired or Wireless LAN(P. 48)**

* If you are switching from a wired LAN to a wireless LAN, you can make the change within the procedure for configuring the wireless LAN.

[**Wired LAN**]
[Wireless LAN]

[Wireless LAN Settings]

[Menu] ▶ [Preferences] ▶ [Network]

Specify the settings for connecting the machine to a wireless LAN and to save energy while the machine is connected to a wireless LAN.
[Wireless LAN Settings](P. 315)

[Direct Connection Settings]

[Menu] ▶ [Preferences] ▶ [Network]

Specify the settings for using a direct connection and for the connection function. **Enabling the Direct Connection Function(P. 192)**

[Use Direct Connection]
  [**Off**]
  [On]
    [Direct Connection Termination]
      [Automatically Terminate Session]
        [**Off**]
        [On]
          [Time Until Session Terminates]
            1 to 60 (min.)

[Access Point Mode Settings]
[Use Custom SSID]
[**Off**]
[On]
[SSID]
[Use Custom Network Key]
[**Off**]
[On]
[Network Key]
[Keep Enabled If SSID/Ntwk Key Spcfd][*1]
[**Off**]
[On]
[Config. IP Address For Direct Conn.]
192.168.22.1

[*1] May not be displayed depending on the model, the installed options, and other settings.

[Easy Connection via PC]

[Menu] ▶ [Preferences] ▶ [Network]

Start cableless setup mode.
To configure the network settings using the Canon Laser NW Device Setup Utility, select cableless setup mode.

* You can download the Canon Laser NW Device Setup Utility from the Canon website for your country/region.
https://global.canon/en/support/

[TCP/IP Settings]

[Menu] ▶ [Preferences] ▶ [Network]

Specify the settings for using the machine on a TCP/IP network.
[TCP/IP Settings](P. 317)

[SNMP Settings]

[Menu] ▶ [Preferences] ▶ [Network]

Specify the settings for setting up, monitoring, and controlling the machine using SNMP management software.
Configuring SNMP(P. 72)
To ensure compliance with the protocol's advanced specifications (RFC2790) when the machine's status is being monitored, set [Format Host Rsrcs. MIB to RFC2790] to [On].

[SNMPv1 Settings]
[Off]
[**On**]

[SNMPv3 Settings]
[**Off**]
[On]

[Acquire Printer Mngt. Info. from Host]
[**Off**]

[On]

[Format Host Rsrcs. MIB to RFC2790]
[Off]
[**On**]

[Use Dedicated Port]

[Menu] ▶ [Preferences] ▶ [Network]

Specify whether to use a dedicated port.
Use a dedicated port for tasks such as printing from a computer and configuring or browsing the machine's settings.

[Off]
[**On**]

[Dedicated Port Auth. Method]

[Menu] ▶ [Preferences] ▶ [Network]

Set the authentication method when using a dedicated port.
If you specify [Mode 2], communication via the dedicated port will be limited to secure authentication methods only. This may mean that you cannot connect to the machine from device management software, drivers or other software.

[**Mode 1**]
[Mode 2]

[Wait Time for Conn. at Startup]

[Menu] ▶ [Preferences] ▶ [Network]

Set the waiting time until a connection is established when the machine starts up.
If the machine is connected via a device such as a switching hub, you may not be able to connect to the network even when the setting on the machine is correct. If so, set the waiting time and reconnect.

0 to 300 (sec.)

[Ethernet Driver Settings]

[Menu] ▶ [Preferences] ▶ [Network]

Set the Ethernet communication method. **Manually Configuring the Ethernet Settings(P. 66)**
This also allows you to check the MAC address on a wired LAN. **Viewing the MAC Address of the Wired LAN(P. 80)**

* If the [Communication Mode] is set to [Half Duplex], [1000BASE-T] cannot be selected.

[Auto Detect]
[Off]
[Communication Mode]
[**Half Duplex**]
[Full Duplex]
[Ethernet Type]
[**10BASE-T**]

[100BASE-TX]
[1000BASE-T]
[**On**]

[MAC Address]

[Use IEEE 802.1X]

[Menu] ▶ [Preferences] ▶ [Network]

Specify whether to use IEEE 802.1X.
Use Remote UI from a computer to set the IEEE 802.1X authentication method. **Using IEEE 802.1X(P. 236)**

* [Use IEEE 802.1X] may not be displayed depending on the model, the installed options, and other settings.

[**Off**]
[On]

[Firewall Settings]

[Menu] ▶ [Preferences] ▶ [Network]

Specify whether to enable an IP address filter and MAC address filter.
Use Remote UI from a computer to set the default policy for filtering and the exception addresses. **Setting the Firewall(P. 224)**

[IPv4 Address Filter]
[Outbound Filter]
[**Off**]
[On]
[Inbound Filter]
[**Off**]
[On]

[IPv6 Address Filter]
[Outbound Filter]
[**Off**]
[On]
[Inbound Filter]
[**Off**]
[On]

[MAC Address Filter]
[Outbound Filter]
[**Off**]
[On]
[Inbound Filter]
[**Off**]
[On]

[Device Settings Management]

[Menu] ▶ [Preferences] ▶ [Network]

Select whether to use the device management software to manage the settings and other data in the machine. For more information, see the manual of the software you are using.

[Off]
[**On**]

[RMT-SW]

[Menu] ▶ [Preferences] ▶ [Network]

Normally, use the machine with this set to [Off].
When your service representative carries out device maintenance remotely, he or she may change this to [On].

[**Off**]
[On]

[Initialize Network Settings]

[Menu] ▶ [Preferences] ▶ [Network]

Use this to restore the network settings to the factory settings. **Initializing Specific Settings and Data(P. 295)**

[Wireless LAN Settings]

864Y-06W

Specify the settings for connecting the machine to a wireless LAN and to save energy while the machine is connected to a wireless LAN.
* Values in bold red text are the default settings for each item.

[Select Network](P. 315)
[Other Connections](P. 315)
[Connection Set.](P. 316)

[Select Network]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [Wireless LAN Settings]

Select a wireless LAN router (access point) from the displayed list and enter the network key to connect. **Connecting to a Wireless LAN by Searching for a Router (Access Point Setup Method)(P. 56)**

[Other Connections]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [Wireless LAN Settings]

Connect to the wireless LAN by a method other than selecting the wireless LAN router from a list.

[Manually Enter Network Name (SSID)]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [Wireless LAN Settings] ▶ [Other Connections]

Connect to a wireless LAN router by manually entering all the router information, such as the SSID, network key and security settings. **Connecting to a Wireless LAN by Setting the Details (Manual Setup Method)(P. 58)**

[Security Settings]
  [None]
  [WEP]
    [**Open System**]
      Encryption keys 1 to 4
    [Shared Key]
      Encryption keys 1 to 4
  [WPA/WPA2-PSK]
    [**Auto**]
    [AES-CCMP]
  [WPA/WPA2-EAP]

[WPS Push Button Mode]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [Wireless LAN Settings] ▶ [Other Connections]

Connect to a wireless LAN by pressing a button on a LAN router that supports WPS push button mode. **Connecting to a Wireless LAN by Using the Router Button (Push Button Mode)(P. 53)**

[WPS PIN Code Mode]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [Wireless LAN Settings] ▶ [Other Connections]

Connect to a wireless LAN router that supports WPS PIN code mode by registering a PIN code generated by the machine. Use a computer or similar device to register the PIN code. **Connecting to a Wireless LAN by Entering a PIN Code (WPS PIN Code Mode)(P. 54)**

[Connection Set.]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [Wireless LAN Settings]

Configure the setting to save power when connecting by wireless LAN, and check the wireless LAN connection information.

[Power Save Mode]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [Wireless LAN Settings] ▶ [Connection Set.]

Specify whether to periodically set the machine to Power Save Mode according to signals sent from the wireless LAN router.

[Off]
[**On**]

[Connection Information]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [Wireless LAN Settings] ▶ [Connection Set.]

Check data such as the security settings, as well as the wireless LAN MAC address and other connection information. **Viewing the MAC Address and Connection Information of the Wireless LAN(P. 81)**

[MAC Address]
[Wireless LAN Status]
[Latest Error Information]
[Channel]
[Network Name]
[Security Settings]
[Power Save Mode]

[TCP/IP Settings]

864Y-06X

Specify the settings to use the machine on a TCP/IP network.
* Values in bold red text are the default settings for each item.

- **[IPv4 Settings](P. 317)**
- **[IPv6 Settings](P. 318)**
- **[DNS Settings](P. 319)**
- **[WINS Settings](P. 320)**
- **[LPD Settings](P. 321)**
- **[RAW Settings](P. 321)**
- **[WSD Settings](P. 321)**
- **[IPP Print Settings](P. 321)**
- **[Use HTTP](P. 322)**
- **[Use IPSec](P. 322)**
- **[Port Number Settings](P. 322)**
- **[MTU Size](P. 323)**

[IPv4 Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings]

Specify the settings to use the machine in an IPv4 environment.

[IP Address Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings] ▶ [IPv4 Settings]

Set the IPv4 address either automatically or manually. **Setting IPv4 Addresses(P. 61)**

[Auto Acquire]
  [Auto Acquire]
    [Off]
    [**On**]
      [Select Protocol]
        [Off]
        [**DHCP**]
      [Auto IP]
        [Off]
        [**On**]

[Manually Acquire]*1
  [IP Address]: 0.0.0.0
  [Subnet Mask]: 0.0.0.0
  [Gateway Address]: 0.0.0.0

[Check Settings]

*1 May not be displayed depending on the model, the installed options, and other settings.

[DHCP Option Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings] ▶ [IPv4 Settings]

Specify the settings for using a DHCP server in an IPv4 environment with a Domain Name System (DNS) implemented. **Configuring DNS(P. 67)**

[Acquire Host Name]
[Off]
[**On**]

[DNS Dynamic Update]
[**Off**]
[On]

[Acquire DNS Server Address]
[Off]
[**On**]

[Acquire Domain Name]
[Off]
[**On**]

[Acquire WINS Server Address]
[Off]
[**On**]

[Acquire POP Server Address]
[**Off**]
[On]

[PING Command]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings] ▶ [IPv4 Settings]

Execute a PING command to check whether the machine can connect to devices on the network. **Checking Whether the Machine Can Connect to Network Devices(P. 79)**

[IPv6 Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings]

Specify the settings for using the machine in an IPv6 environment.
You can set multiple IPv6 addresses and use them at the same time. **Setting IPv6 Addresses(P. 63)**

[Use IPv6]
[**Off**]
[On]
[Stateless Address Settings]
[Stateless Address Settings]
[Off]
[**On**]
[Check Settings]
[DHCPv6 Settings]
[Use DHCPv6]
[**Off**]
[On]
[Check Settings]
[DHCP Option Settings]
[Acquire DNS Server Address]

[Off]
[**On**]
[Acquire Domain Name]
[Off]
[**On**]

[Check IPv6 Settings]

[DNS Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings]

Specify the DNS settings when using the machine in an environment with a Domain Name System (DNS) implemented.
Configuring DNS(P. 67)
The settings for mDNS (multicast DNS) used by functions such as Bonjour are also specified here.

[IPv4 DNS Server Address Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings] ▶ [DNS Settings]

Set the IP address for an IPv4 DNS server.

[Primary DNS Server]: 0.0.0.0
[Secondary DNS Server]: 0.0.0.0

[DNS Host Name/Domain Name Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings] ▶ [DNS Settings]

Specify the host name to be registered for the machine on the DNS server and the name of the domain to which it belongs.

[IPv4]
[Host Name]
[Domain Name]

[IPv6]
[Use IPv4 Host/Domain]
[Off]
[Host Name]
[Domain Name]
[**On**]

[DNS Dynamic Update Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings] ▶ [DNS Settings]

Specify whether settings are automatically updated when the correspondence between host names and IP addresses is changed in environments such as DHCP.
If you enable automatic updating, you can also specify the interval between updates.

[IPv4]
[DNS Dynamic Update]
[**Off**]
[On]
[DNS Dynamic Update Interval]
0 to **24** to 48 (hr.)

[IPv6]
[DNS Dynamic Update]
[**Off**]
[On]
[Register Manual Address]
[**Off**]
[On]
[Register Stateful Address]
[**Off**]
[On]
[Register Stateless Address]
[**Off**]
[On]
[DNS Dynamic Update Interval]
0 to **24** to 48 (hr.)

[mDNS Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings] ▶ [DNS Settings]

Specify the mDNS settings to use DNS functions in an environment with no DNS installed.

[IPv4]
[Use mDNS]
[Off]
[**On**]
[mDNS Name]

[IPv6]
[Use mDNS]
[Off]
[**On**]
[Use Same mDNS Name as IPv4]
[Off]
[mDNS Name]
[**On**]

[WINS Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings]

Configure WINS (Windows Internet Name Service) when using the machine in a network environment that uses both NetBIOS and TCP/IP. **Configuring WINS(P. 71)**

[WINS Resolution]
[**Off**]
[On]
[WINS Server Address]: 0.0.0.0

[LPD Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings]

Specify whether to use the LPD protocol. **Configuring LPD, RAW, or WSD(P. 264)**
If the LPD protocol is used, you can also set the time from the start of reception standby, after print data reception is canceled, to the timeout.

[Use LPD Printing]
[Off]
[**On**]
[RX Timeout]
1 to **5** to 60 (min.)

[RAW Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings]

Specify whether to use the RAW protocol. **Configuring LPD, RAW, or WSD(P. 264)**
If the RAW protocol is used, you can also set the time from the start of reception standby, after print data reception is canceled, to the timeout.

[Use RAW Printing]
[Off]
[**On**]
[RX Timeout]
1 to **5** to 60 (min.)

[WSD Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings]

Specify whether to use the WSD protocol. You can specify this setting for each of the functions that use the WSD protocol. **Configuring LPD, RAW, or WSD(P. 264)**

[Use WSD Printing]
[Off]
[**On**]

[Use WSD Browsing]
[Off]
[**On**]

[Use Multicast Discovery]
[Off]
[**On**]

[IPP Print Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings]

Specify whether to use IPP (Internet Printing Protocol). You can use IPP when printing with AirPrint. **Setting the Functions and Security to Be Used with AirPrint(P. 195)**
When using IPP, you can also specify whether TLS encryption is used for communication.

[Use IPP Printing]
[Off]
[**On**]
[Allow IPP Printing Only w/TLS]
[**Off**]
[On]

[Use HTTP]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings]

Specify whether to use HTTP. **Disabling HTTP Communication(P. 266)**

[Off]
[**On**]

[Use IPSec]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings]

Specify whether to use IPSec (IP Security Protocol).
Use Remote UI from a computer to specify setting such as the IPSec policy, selector, and IKE. **Using IPSec(P. 232)**

[**Off**]
[On]

[Port Number Settings]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings]

Specify the port number for the protocol used in accordance with the port numbers for the computer, server or other device. **Changing the Port Number(P. 227)**

[LPD]
1 to **515** to 65535

[RAW]
1 to **9100** to 65535

[WSD Multicast Discovery]
1 to **3702** to 65535

[HTTP]
1 to **80** to 65535

[Multicast Discovery]
1 to **427** to 65535

[POP3]

1 to **110** to 65535

[SNMP]
1 to **161** to 65535

[MTU Size]

[Menu] ▶ [Preferences] ▶ [Network] ▶ [TCP/IP Settings]

If communication slows down due to the size of the packets sent, use this to change the maximum size for outgoing packets.

[1300]
[1400]
[**1500**]

[External Interface]

864Y-06Y

Specify the settings for USB connections.
* Values in bold red text are the default settings for each item.

[USB Settings](P. 324)

[USB Settings]

[Menu] ▶ [Preferences] ▶ [External Interface]

Specify the settings for using the USB ports and USB memory devices.

- Specify whether to use the USB port for connecting to the computer in [Use as USB Device]. **Preventing Connection to Computer via USB Port(P. 263)**
- Specify whether to use memory media such as USB memory devices in [Use USB Storage Device]. **Preventing All Use of Memory Media(P. 255)**

[Use as USB Device]
[Off]
[**On**]

[Use USB Storage Device]
[Off]
[**On**]

[Accessibility]

864Y-070

Configure operation panel screen features such as screen color inversion and message display time to make the screen easier to see.
* Values in bold red text are the default settings for each item.

[Invert Screen Colors](P. 325)
[Brightness](P. 325)
[Message Display Time](P. 325)

[Invert Screen Colors]

[Menu] ▶ [Preferences] ▶ [Accessibility]

Specify whether light and dark on the operation panel screen are reversed.
Use this setting when the display is still difficult to see even after you have adjusted the brightness. **[Brightness] (P. 325)**

[**Off**]
[On]

[Brightness]

[Menu] ▶ [Preferences] ▶ [Accessibility]

Adjust the brightness of the operation panel screen when it is difficult to see.

5 levels

[Message Display Time]

[Menu] ▶ [Preferences] ▶ [Accessibility]

Set the number of seconds for which each message is displayed when 2 messages are displayed alternately on the operation panel screen.

1 to **2** to 5 (sec.)

[Adjustment/Maintenance]

864Y-071

Use this setting to adjust the print quality and when cleaning the machine.

[Adjust Image Quality](P. 326)
[Maintenance](P. 326)

[Adjust Image Quality]

[Menu] ▶ [Adjustment/Maintenance]

Use this setting to adjust the image quality or print position and for special processing according to the paper used.
[Adjust Image Quality](P. 327)

[Maintenance]

[Menu] ▶ [Adjustment/Maintenance]

Carry out maintenance to clean the machine and to control condensation.
[Maintenance](P. 337)

[Adjust Image Quality]

864Y-072

Use this setting to adjust the image quality or print position and for special processing according to the paper used.
* Values in bold red text are the default settings for each item.

[Auto Adjust Gradation](P. 327)
[Auto Correction Settings](P. 327)
[Correct Print Color Mismatch](P. 327)
[Adjust Print Position](P. 327)
[Special Processing](P. 328)

[Auto Adjust Gradation]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality]

Correct the gradations if they are not reproduced correctly during printing. **Calibrating the Gradation(P. 424)**

[Quick Adjust]

[Auto Correction Settings]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality]

Specify when to perform Quick Adjust (gradation calibration) and Correct Print Color Mismatch automatically and the operation to be performed during Quick Adjust.
[Auto Correction Settings](P. 329)

[Correct Print Color Mismatch]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality]

Correct color mismatching when printed images are blurry or the colors are misaligned. **Correcting Color Mismatch(P. 425)**

[Adjust Print Position]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality]

Adjust the print position if text or images are printed off-center or outside the printable range. **Adjusting the Print Position(P. 426)**

[Multi-Purpose Tray]
[Adjust Vertically (Front Side)]
-5.0 to **0.0** to +5.0 (mm)
[Adjust Horizontally (Front Side)]
-5.0 to **0.0** to +5.0 (mm)
[Adjust Vertically (Back Side)]
-5.0 to **0.0** to +5.0 (mm)
[Adjust Horizontally (Back Side)]
-5.0 to **0.0** to +5.0 (mm)

[Drawer 1]
[Adjust Vertically (Front Side)]
-5.0 to **0.0** to +5.0 (mm)
[Adjust Horizontally (Front Side)]
-5.0 to **0.0** to +5.0 (mm)
[Adjust Vertically (Back Side)]
-5.0 to **0.0** to +5.0 (mm)
[Adjust Horizontally (Back Side)]
-5.0 to **0.0** to +5.0 (mm)

[Drawer 2]*1
[Adjust Vertically (Front Side)]
-5.0 to **0.0** to +5.0 (mm)
[Adjust Horizontally (Front Side)]
-5.0 to **0.0** to +5.0 (mm)
[Adjust Vertically (Back Side)]
-5.0 to **0.0** to +5.0 (mm)
[Adjust Horizontally (Back Side)]
-5.0 to **0.0** to +5.0 (mm)

*1 May not be displayed depending on the model, the installed options, and other settings.

[Special Processing]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality]

Use a range of processes to resolve problems that arise due to factors such as the paper type, the material used, or its condition.
[Special Processing](P. 331)

[Auto Correction Settings]

864Y-073

Specify when to perform Quick Adjust (gradation calibration) and Correct Print Color Mismatch automatically and the operation to be performed during gradation calibration.
* Values in bold red text are the default settings for each item.

[Auto Adjust Image Regularly](P. 329)
[Correct Print Color Mismatch](P. 329)
[Adjust Image According To](P. 329)

[Auto Adjust Image Regularly]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Auto Correction Settings]

Specify that Quick Adjust be automatically performed regularly.

- To perform Quick Adjust immediately after turning the machine ON, set this to [When Turning Main Power ON].
- To perform Quick Adjust when the first print job is completed after the machine is turned ON, set this to [After Printing First Job].

[**Off**]
[When Turning Main Power ON]
[After Printing First Job]

NOTE

- You can also perform Quick Adjust manually. **Calibrating the Gradation(P. 424)**

[Correct Print Color Mismatch]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Auto Correction Settings]

Specify the timing for when Correct Print Color Mismatch is automatically performed.

- To perform Quick Adjust when the first print job is completed after the machine is turned ON, set this to [After Printing First Job].
- To perform Quick Adjust immediately after turning the machine ON, set this to [When Turning Main Power ON].

[**After Printing First Job**]
[When Turning Main Power ON]

NOTE

- You can also perform Correct Print Color Mismatch manually. **Correcting Color Mismatch(P. 425)**

[Adjust Image According To]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Auto Correction Settings]

When performing gradation calibration regularly, you can set the priority to the toner cartridge lifetime or the calibration effect.

[**Estimate (Consumable Saving Priority)**]
[Measurement (Image Quality Priority)]

[Special Processing]

864Y-074

Use a range of processes to resolve problems that arise due to factors such as the paper type, the material used, or its condition.
* Values in bold red text are the default settings for each item.

[Special Paper Processing](P. 331)
[Reduce Ppr. Sticking at Output](P. 332)
[High Humidity Mode](P. 333)
[Low Humidity Mode](P. 333)
[Rdc Condens. (Consec 2-Sd Prt)](P. 333)
[Quiet Mode](P. 333)
[Correct Uneven Gloss](P. 334)
[Prevent Fogging](P. 334)
[Correct Color Mismatch](P. 334)
[Reduce Toner Flaking](P. 334)
[Auto Detect B&W/Color Orig.](P. 334)
[Auto Detect B&W/Color Orig.](P. 334)
[Rdc. Faint Print After Rplc. Cart.](P. 335)
[Correct Paper Conveyance](P. 335)
[ITB Cleaning Frequency](P. 335)
[Prevent Printing Noise](P. 335)
[Prevent Print Fading/Misalign.](P. 336)
[Reduce Ghosting](P. 336)
[Correct Void](P. 336)
[Correct Void for Rough Paper](P. 336)

[Special Paper Processing]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

Specify special processing for the paper in the following situations:

- If you are using special paper
  - To print on the back of printed paper
  - For paper with a rough surface
- If the envelope flap is stuck down
- If the paper curls during printing

[Manual Back Side Print (2-Sided Only)]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Special Paper Processing]

If you are using paper that has already been printed on, printing on the back side may appear faint. If so, specifying [On] for that paper source may improve the print results.

* When this is set to [On], if some time has passed since the front side of the paper was printed, or depending on the operating environment humidity, changes in image quality or paper jams may occur.

[Multi-Purpose Tray]
[**Off**]
[On]

[Drawer 1]
[**Off**]
[On]

[Drawer 2]*1
[**Off**]
[On]

*1 May not be displayed depending on the model, the installed options, and other settings.

[Rough Surface Paper Mode]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Special Paper Processing]

If you are using paper with a rough surface, printed images may appear faint, particularly where the images use 2 or more toner colors overlaid. If so, specifying [On] for that paper source may improve the print results.

* Specifying [On] in this setting may lead to slower print speeds or changes in the image quality.

[Multi-Purpose Tray]
[**Off**]
[On]

[Drawer 1]
[**Off**]
[On]

[Drawer 2]*1
[**Off**]
[On]

*1 May not be displayed depending on the model, the installed options, and other settings.

[Env. Flap Closing Prevention]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Special Paper Processing]

Depending on the type of envelope and the operating environment, the envelope flap may stick down during printing. If so, specifying [On] in this setting may reduce the likelihood of envelope flaps sticking down.

* If this is set to [On], the print may be faded because the toner is not fully fixed on the paper.

[**Off**]
[On]

[Paper Curl Correction]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Special Paper Processing]

Depending on paper used, the paper may curl during printing. If so, specifying [On] in this setting may alleviate paper curling.

* Specifying [On] in this setting may lead to faded print or make printing slower.

[**Off**]
[On]

[Reduce Ppr. Sticking at Output]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

In 2-sided color printing involving multiple pages, printed paper sheets may stick together. If so, specifying [On] in this setting may reduce the likelihood of paper sheets sticking together.

* Specifying [On] in this setting slows down the print speed for images that are likely to stick together.

[**Off**]
[On]

[High Humidity Mode]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

Printing in a high-humidity environment may cause uneven print density. If so, specifying [On] may improve the print results.

* Specifying [On] in this setting may lead to blurred images and/or text in low-humidity environments.

[**Off**]
[On]

[Low Humidity Mode]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

Printing in a low-humidity environment may lead to blurred images and/or text. If so, specifying [On] may improve the print results.

* Specifying [On] in this setting may lead to faint or uneven printing in high-humidity environments.

[**Off**]
[On]

[Rdc Condens. (Consec 2-Sd Prt)]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

In 2-sided printing, water droplets inside the machine may result in images being printed faintly. If so, specifying [On] in this setting may reduce the amount of condensation inside the machine.

* Specifying [On] in this setting may lead to faded print or make printing slower.

[**Off**]
[On]

[Quiet Mode]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

If the operation sound during printing is loud, selecting [On] may reduce the operation sound.

* When you select [On], the printing speed will decrease.

[**Off**]
[On]

[Correct Uneven Gloss]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

Uneven gloss may occur at the edges of printed paper. If so, specifying [On] may improve the print results.

* If this is set to [On], the print may be faded because the toner is not fully fixed on the paper.

[**Off**]
[On]

[Prevent Fogging]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

White areas in printed images may appear to be faintly colored throughout. If so, specifying [Mode 1] may correct the problem. If this does not correct the problem, select [Mode 2] and [Mode 3] in that order.

* When this setting is enabled, the print density may decrease.

[**Off**]
[Mode 1]
[Mode 2]
[Mode 3]

[Correct Color Mismatch]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

Color mismatching may occur in printed images. If so, specifying [On] in this setting may improve the print results.

* Specifying [On] may reduce the print speed.

[**Off**]
[On]

[Reduce Toner Flaking]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

Depending on the paper type and operating environment, the toner in printed images may peel off. If so, specifying [Mode 1] in this setting may improve the print results. If this does not solve the problem, specify [Mode 2].

* Enabling this setting may result in ghosting in blank areas.

[**Off**]
[Mode 1]
[Mode 2]

[Auto Detect B&W/Color Orig.]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

Specify whether to prioritize the print speed or limit the use of the color toner cartridges when printing documents that include both black and white and color.

- To prioritize the print speed, specify [Mode 1] in this setting.
- To limit the use of color toner cartridges, specify [Mode 2] in this setting.

[**Mode 1**]
[Mode 2]

[Rdc. Faint Print After Rplc. Cart.]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

Print may be faded immediately after installing a new replacement toner cartridge. If so, specifying [On] in this setting may improve the print results. This setting takes effect the next time a toner cartridge is replaced.

* Specifying [On] will result in a longer delay than usual between replacing toner cartridges and being able to print.

[**Off**]
[On]

[Correct Paper Conveyance]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

Continuous printing may result in repeated paper jams. In this case, selecting [On] may reduce the frequency of paper jams.

* When you select [On], the printing speed may decrease.

[**Off**]
[On]

[ITB Cleaning Frequency]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

If the printed paper is partly smudged, selecting [High] may improve the print results.

* When you select [High], the printing speed may decrease.

[**Standard**]
[High]

[Prevent Printing Noise]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

During black and white printing, the machine may make a sound as if there is friction. In this case, selecting [Mode 1] may reduce the sound. If that does not work, select [Mode 2].

* When this setting is enabled, the printing speed may decrease.

[**Off**]
[Mode 1]

[Mode 2]

[Prevent Print Fading/Misalign.]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

The position of the printed image may be shifted, or the image may appear faded. In this case, selecting [On] may improve the print results.

* When you select [On], the printing speed may decrease.

[**Off**]
[On]

[Reduce Ghosting]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

Ghost images with streaks may appear on the printed paper. In this case, selecting [On] may improve the print results.

* When you select [On], the printing speed may decrease.

[**Off**]
[On]

[Correct Void]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

White spots may appear on the edge of the paper when printing on thin paper. In this case, selecting [On] may improve the print results.

* When you select [On], the printing may be faded.

[**Off**]
[On]

[Correct Void for Rough Paper]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

When you use paper with a rough surface, printing may appear uneven. In this case, selecting [On] may improve the print results.

* When you select [On], the print quality may be affected.

[**Off**]
[On]

[Maintenance]

864Y-075

Carry out maintenance to clean the machine and control condensation.
* Values in bold red text are the default settings for each item.

[Clean Fixing Assembly](P. 337)
[Clean ITB](P. 337)
[Control Condensation](P. 337)

[Clean Fixing Assembly]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Maintenance]

Perform this operation to clean the fixing assembly if black streaks appear on printed paper following procedures such as toner cartridge replacement. **Cleaning the Fixing Assembly(P. 413)**

[Clean ITB]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Maintenance]

If the printout is smudged, the transfer belt (ITB) inside the machine may be dirty. Perform this operation to clean the transfer belt. **Cleaning the Transfer Belt(P. 414)**

[Control Condensation]

[Menu] ▶ [Adjustment/Maintenance] ▶ [Maintenance]

In environments subject to sudden temperature changes, condensation may form and cause images and/or text to be faint or blurred. If so, specifying [On] may improve the print results.
During condensation removal, a blank sheet of paper may be output without printing correctly. If you set this to [On], you can set whether to restrict printing.

* If you set this to [On], you must keep the machine ON to continuously remove the condensation. The Auto Shutdown Time setting is disabled.

[**Off**]
[On]
[**Allow Job Printing During Process**]
[Do Not Allow Job Printing During Process]

[Function Settings]

864Y-076

Specify the settings for printing and receiving I-Faxes.
* Values in bold red text are the default settings for each item.

[Common](P. 338)
[Printer](P. 338)
[Receive](P. 338)
[Access Files](P. 338)
[Secure Print](P. 338)

[Common]

[Menu] ▶ [Function Settings]

Specify the settings for function operation, such as the paper source and printing.
[Common](P. 340)

[Printer]

[Menu] ▶ [Function Settings]

Specify the printer settings.
[Printer](P. 344)

[Receive]

[Menu] ▶ [Function Settings]

Specify the settings for I-Faxes.
[Receive](P. 377)

[Access Files]

[Menu] ▶ [Function Settings]

Specify the settings for using USB memory devices.
[Access Files](P. 380)

[Secure Print]

[Menu] ▶ [Function Settings]

Specify whether to use the Secure Print function, which assigns a PIN for printing. **Printing a Document Secured with a PIN (Secure Print)(P. 168)**

- To restrict printing from a computer to Secure Print jobs only, specify [Restrict Printer Jobs] also. **Restricting Printing from a Computer to Secure Print(P. 259)**
- To change the period of time until the print data that was sent with a PIN (secure data) and is temporarily saved in the memory of the machine is deleted, specify the [Secure Print Deletion Time] setting also. **Changing the Time Period That Print Data with a PIN (Secure Data) Is Saved(P. 171)**

[Use Secure Print]
[Off]
[**On**]
[Restrict Printer Jobs]
[**Off**]
[On]
[Secure Print Deletion Time]
10 to **30** to 240 (min.)

[Common]

864Y-077

Specify the settings for function operations, such as the paper source and printing.

[Paper Feed Settings](P. 340)
[Print Settings](P. 340)

[Paper Feed Settings]

[Menu] ▶ [Function Settings] ▶ [Common]

Specify the settings for the paper source.
[Paper Feed Settings](P. 341)

[Print Settings]

[Menu] ▶ [Function Settings] ▶ [Common]

Specify the settings for printing.
[Print Settings](P. 343)

[Paper Feed Settings]

864Y-078

Specify the settings for the paper source.
* Values in bold red text are the default settings for each item.

[Paper Source Auto Selection](P. 341)
[Switch Paper Feed Method](P. 342)

[Paper Source Auto Selection]

[Menu] ▶ [Function Settings] ▶ [Common] ▶ [Paper Feed Settings]

Specify the settings for each function so that the machine automatically selects the correct paper source for the size of the paper to be printed. **Using the Appropriate Paper Source for Each Function(P. 134)**

[Printer]
[Multi-Purpose Tray]
[Off]
[**On**]
[Drawer 1]
[Off]
[**On**]
[Drawer 2]*1
[Off]
[**On**]

[Receive]
[Multi-Purpose Tray]
[**Off**]
[On]
[Drawer 1]
[Off]
[**On**]
[Drawer 2]*1
[Off]
[**On**]

[Other]
[Multi-Purpose Tray]
[**Off**]
[On]
[Drawer 1]
[Off]
[**On**]
[Drawer 2]*1
[Off]
[**On**]

*1 May not be displayed depending on the model, the installed options, and other settings.

[Switch Paper Feed Method]

[Menu] ▶ [Function Settings] ▶ [Common] ▶ [Paper Feed Settings]

Specify the settings used when printing on paper with a pre-printed logo.
Normally, when such paper is used, you need to change the direction in which the paper is loaded and which side faces up according to whether printing is 1-sided or 2-sided.
If you set [Print Side Priority] as the paper source for the loaded paper, there is no need to change the direction of the paper loaded or which side faces up. If you specify [Print Side Priority], always load the paper using the method for 2-sided printing. **Orientation for Loading Paper with a Logo(P. 122)**

* If you specify [Print Side Priority] in this setting, 1-sided printing will be slower. If you are using paper without a pre-printed logo, or if you are not using 2-sided printing for paper with a pre-printed logo, specify [Speed Priority].

[Multi-Purpose Tray]
[**Speed Priority**]
[Print Side Priority]

[Drawer 1]
[**Speed Priority**]
[Print Side Priority]

[Drawer 2]*1
[**Speed Priority**]
[Print Side Priority]

*1 May not be displayed depending on the model, the installed options, and other settings.

NOTE

- If you specify [Print Side Priority] for a paper source containing a paper that cannot be used for 2-sided printing, that setting is disabled and the machine operates using the [Speed Priority] setting.

[Print Settings]

864Y-079

Specify the settings for printing.
* Values in bold red text are the default settings for each item.

[Auto Delete Suspended Jobs](P. 343)

[Auto Delete Suspended Jobs]

[Menu] ▶ [Function Settings] ▶ [Common] ▶ [Print Settings]

Specify whether to automatically delete the print job when an error occurs and printing stops.
If you specify automatic deletion, you can also specify the time before the job is deleted.

[Set This Function]
[**Off**]
[On]
[Set Time]
0 to **5** to 240 (min.)

[Printer]

864Y-07A

Specify the printer settings.

[Printer Settings](P. 344)
[PDL Selection (Plug and Play)](P. 344)

[Printer Settings]

[Menu] ▶ [Function Settings] ▶ [Printer]

Specify the settings for printer operation and for processing print data.
[Printer Settings](P. 345)

[PDL Selection (Plug and Play)]

[Menu] ▶ [Function Settings] ▶ [Printer]

Specify which Page Description Language (PDL) to use when connecting the machine to a computer using Plug and Play.
[PDL Selection (Plug and Play)](P. 375)

[Printer Settings]

864Y-07C

Specify the settings for printer operation and for processing print data.
* Values in bold red text are the default settings for each item.

- **[Action When Free Paper Size Mismatch](P. 345)**
- **[Copies](P. 346)**
- **[2-Sided Printing](P. 346)**
- **[Default Paper](P. 346)**
- **[Paper Size Override](P. 346)**
- **[Print Quality](P. 346)**
- **[Layout](P. 350)**
- **[Auto Skip Error](P. 352)**
- **[Timeout](P. 352)**
- **[Personality](P. 352)**
- **[Color Mode](P. 352)**
- **[Compressed Image Output](P. 353)**
- **[Escape Tray Mode](P. 353)**
- **[Speed/Prt. Side Priority for 2-Sd](P. 353)**
- **[Prioritize MP Tray](P. 353)**
- **[Check Paper Size in Tray](P. 354)**
- **[Recovery Printing](P. 354)**
- **[UFR II](P. 354)**
- **[PCL](P. 356)**
- **[PS](P. 361)**
- **[Imaging Settings](P. 366)**
- **[PDF](P. 366)**
- **[XPS](P. 372)**

NOTE

If the Operation Panel and Printer Driver Have the Same Settings

- Priority is given to the printer driver settings. The operation panel settings are valid for operating systems such as UNIX, PS, and PCL printing where printer drivers cannot be used and when printing from mobile devices.

[Action When Free Paper Size Mismatch]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

When the paper size of each paper source is set to [Free Size] in [Paper Settings], you can specify the operation that is to be performed when the size of the loaded paper is significantly different from the setting in the printer driver.
If the printer driver's settings do not match the size and type of loaded paper, a paper jam or printing error may occur.

[Multi-Purpose Tray]
[**Force Output**]
[Display Error]

[Drawer 1]
[**Force Output**]
[Display Error]

[Drawer 2][*1]
[**Force Output**]
[Display Error]

[*1] May not be displayed depending on the model, the installed options, and other settings.

[Copies]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify the number of copies to be printed.

1 to 999

[2-Sided Printing]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify whether to print on both sides of the paper.

[**Off**]
[On]

[Default Paper]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify the paper size and type to be used when printing from a mobile device or an OS that does not support the printer driver.
See below for the papers that can be specified.
Usable Paper(P. 21)

[Paper Size Override]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify whether the machine substitutes A4 size paper for Letter size paper and vice-versa when printing.
Specifying [On] in this setting means that if, for example, printing on A4 size paper is specified on the computer and there is only Letter size paper loaded, the job is printed on Letter size paper instead.

* Print settings are specified in an application or printer driver, but this setting can only be specified on the operation panel.

[**Off**]
[On]

[Print Quality]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Adjust print quality settings such as the density and resolution according to the document being printed and the purpose.

[Density]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Print Quality]

Adjust the toner density used when printing each color.
For more precise adjustment, you can adjust the levels of the three density areas for each color in [Fine Adjust].

* Note that you cannot adjust the toner density if [Toner Save] is set to [On]. **[Toner Save](P. 347)**

* [Density] may not be displayed depending on the model, the installed options, and other settings.

[Yellow]/[Magenta]/[Cyan]/[Black]
17 levels

[Fine Adjust]
[Yellow]/[Magenta]/[Cyan]/[Black]
[High]/[Medium]/[Low]
17 levels

[Toner Save]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Print Quality]

Specify whether to save toner when printing.
Specify [On] in this setting when you only want to check the layout or other finishing prior to the final print, such as before printing a very large job.

[**Off**]
[On]

[Gradation]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Print Quality]

Specify the processing method used to reproduce gradations.
Specify [High 2] to print with finer gradations than the [High 1] setting.

* This setting is only enabled when [Resolution] is set to [600 dpi]. **[Resolution](P. 347)**

[**High 1**]
[High 2]

[Density Fine Adjustment]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Print Quality]

Adjust the density for fine lines or small text. If fine lines and small text appear faded, adjusting the density will alleviate the fading.

* Note that adjusting the density will also affect the color balance and objects other than lines and text.

* This setting is only enabled when [Resolution] is set to [1200 dpi]. **[Resolution](P. 347)**

5 levels

[Resolution]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Print Quality]

Specify the resolution used to process print data.
To print with a higher resolution, specify [1200 dpi] in this setting.

[1200 dpi]
[**600 dpi**]

[Special Smoothing Mode]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Print Quality]

Specify the mode for printing data such as text, figures, and images with smoother outlines.
This is normally set to [Mode 1], which is the best setting for various types of printing. However, if the print results are not satisfactory, try another mode.

- Specify [Mode 1] for smooth printing of outlines on darkly colored text or figures.
- Specify [Mode 2] for smooth printing of figure outlines and internal halftones.
- Specify [Mode 3] for smooth printing of darkly colored text and lines against a colored background.
- Specify [Mode 4] for smooth printing of images such as photos or the outlines of figures and text.
- Specify [Mode 5] for evenly balanced printing of images and halftones.
- Specify [Mode 6] for smooth printing over the entire document.

[**Mode 1**]
[Mode 2]
[Mode 3]
[Mode 4]
[Mode 5]
[Mode 6]

NOTE

- If [Halftones] is set to [Error Diffusion], all the settings will give the same print results except for [Mode 5].
  [Halftones](P. 354) ([UFR II])
  [Halftones](P. 359) ([PCL])
  [Halftones](P. 364) ([PS])
  [Halftones](P. 366) ([Imaging Settings])
  [Halftones](P. 370) ([PDF])
  [Halftones](P. 372) ([XPS])
- If [Resolution] is set to [1200 dpi], all the settings will give the same print results except for [Mode 6].
  [Resolution](P. 347)

[Toner Volume Correction]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Print Quality]

Correct the amount of toner so that it is below the machine's limit when the amount of toner in the machine exceeds the limit for text and lines.

- This is normally set to [Standard]. This maintains the resolution of text and lines while ensuring proper color tones for other types of data.
- To adjust the toner volume to maintain the proper color tones for all types of data, specify [Gradation Priority] in this setting.
- To adjust the toner volume to maintain the proper resolution for all types of data, specify [Text Priority] in this setting.

[**Standard**]
[Gradation Priority]
[Text Priority]

[Line Control]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Print Quality]

Set the processing method used to reproduce lines.

- To draw lines at the same resolution as the text, specify [Resolution Priority] in this setting.

- To draw lines so that the proper colors and gradations are maintained, specify [Gradation Priority] in this setting.

[**Resolution Priority**]
[Gradation Priority]

[Width Adjustment]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Print Quality]

Specify whether to adjust the printing of text and fine lines so that they appear bold.
If you specify [On] in this setting, select what is to be adjusted.

* Specifying [On] in this setting may lead to changes in the print speed or in the image quality.

* Depending on the application used, this setting may not be applied.

[**Off**]

[On]
[Text]
[Line]
[**Text and Line**]

[Advanced Smoothing]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Print Quality]

Specify smoothing processing that will produce smoother printed outlines for text and graphics (illustrations created in an application).
To enable smoothing, set [Advanced Smoothing] to [Level 1]. To increase the smoothing effect, specify [Level 2].
You can also individually specify whether to apply smoothing to graphics and text.

* If you are printing using a printer driver, set [Advanced Smoothing] to [Printer Default] in the printer driver to apply the operation panel settings.

[Advanced Smoothing]
[Off]
[**Level 1**]
[Level 2]

[Apply to Graphics]*1
[**Off**]
[On]

[Apply to Text]*1
[Off]
[**On**]

*1 May not be displayed depending on the model, the installed options, and other settings.

[Gradation Smoothing]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Print Quality]

Specify smoothing processing that will produce smoother printed gradations in images such as graphics (illustrations created in an application) and bitmap images.
To enable smoothing, set [Gradation Smoothing] to [Level 1]. To increase the smoothing effect, specify [Level 2].

You can also individually specify whether to apply smoothing to graphics and images.

* If you are printing using a printer driver, the [Gradation Smoothing] setting is only applied to graphics data. The smoothing setting in the operation panel is applied to image data.

[Gradation Smoothing]
[**Off**]
[Level 1]
[Level 2]

[Apply to Graphics]*1
[Off]
[**On**]

[Apply to Images]*1
[Off]
[**On**]

*1 May not be displayed depending on the model, the installed options, and other settings.

[Enhance Text for B&W Printing]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Print Quality]

When using black and white printing for a document that includes color text, specify whether to adjust the text density to make it easier to read.

- While this is effective for light-colored text, it has no effect on the following types of data:
  - Text data drawn as a graphic or image
  - PDF data
- If you specify [Off] in this setting when using black and white printing for a document that includes light-colored text, the text will be printed more faintly and will be more difficult to see than when [On] is specified.
- If the text appears enhanced even when [Off] is selected, specify that text smoothing not be used. **[Advanced Smoothing](P. 349)**

[**Off**]
[On]

[Layout]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify the gutter direction or margin and the print position.

[Binding Location]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Layout]

Specify whether the gutter will be on the long edge or the short edge when the printed document will be bound using a method such as staples.
Use this setting in conjunction with the [Gutter] setting to adjust the binding position and margins. **[Gutter] (P. 351)**

- To bind the paper on the long edge, specify [Long Edge] in this setting.



- To bind the paper on the short edge, specify [Short Edge] in this setting.



[**Long Edge**]
[Short Edge]

[Gutter]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Layout]

Offset the print position to adjust the width of the margin that will form the gutter.
Specify the offset width in 0.5 mm increments in the plus (+) or minus (-) offset direction, in accordance with the edge specified in [Binding Location]. **[Binding Location](P. 350)**

If [Binding Location] is set to [Long Edge]
Specify the offset width by selecting a positive (+) value to bind on the left edge of the paper or a negative (-) value to bind on the right edge.



Specified as a positive (+) value



Specified as a negative (-) value

If [Binding Location] is set to [Short Edge]
Specify the offset width by selecting a positive (+) value to bind on the top edge of the paper or a negative (-) value to bind on the bottom edge.



Specified as a positive (+) value



Specified as a negative (-) value

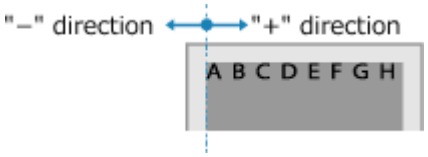
-50.0 to **00.0** to +50.0 (mm)

[Offset Short Edge] or [Offset Long Edge]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Layout]

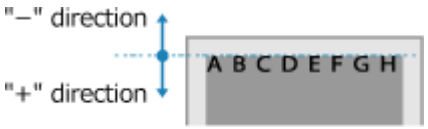
Offset the print position of text and images. Use this setting when the printed text and images are shifted towards one edge of the paper or when they extend beyond the print range.
Specify the offset width as a positive (+) or negative (-) value in 0.5 mm increments for each paper edge direction and print side.

To Offset Along the Short Edge (Horizontally)
Specify the adjustment width by selecting a positive (+) value to adjust to the right on the paper or a negative (-) value to adjust to the left on the paper.



To Offset Along the Long Edge (Vertically)

Specify the adjustment width by selecting a positive (+) value to adjust down on the paper or a negative (-) value to adjust up on the paper.



-50.0 to **00.0** to +50.0 (mm)

[Auto Skip Error]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify whether to continue printing if an error occurs during printing.
It is recommended that the [Off] setting normally be used so that printing stops when an error occurs.

[**Off**]
[On]

[Timeout]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify the time from the start of waiting to receive print data until reception times out when print data reception is interrupted.

5 to **15** to 300 (sec.)

[Personality]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

This should normally be set to [Auto], in which the machine automatically identifies the received print data and switches to the appropriate operating mode.
If the machine doesn't switch to the appropriate operating mode for some reason (such as an unknown print data format), set the operating mode manually.

[**Auto**]
[PS]
[PCL]
[PDF]
[XPS]
[Imaging]

[Color Mode]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify whether to automatically switch between color printing and black and white printing according to the print data, or use black and white printing for all print data.

[**Auto (Color/B&W)**]
[Black & White]

[Compressed Image Output]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

If the machine runs short of memory during printing, image quality may suffer. Specify whether to continue printing when this occurs.

- To continue printing even with degraded image quality, specify [Output] in this setting.
- To stop printing and display an error when image quality is severely degraded, specify [Display Error].

[**Output**]
[Display Error]

[Escape Tray Mode]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify whether to feed paper from the multi-purpose tray when the appropriate paper is not loaded in the paper drawer while Paper Source Auto Selection is enabled.

[**Off**]
[On]

[Speed/Prt. Side Priority for 2-Sd]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify whether to print the last page on one side of the paper when using 2-sided printing and the last page number is odd, or the last page is blank or cannot be printed and ends with an odd page number.

- To print the last page on one side of the paper, select [Speed Priority].
- To print the last page on both sides of the paper, select [Print Side Priority].
  When using paper printed with a logo for example, selecting [Print Side Priority] aligns the orientation and print side with that of other pages.

[**Speed Priority**]
[Print Side Priority]

[Prioritize MP Tray]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify whether to give priority to paper feeding from the multi-purpose tray over feeding from the paper drawer when the machine automatically selects the correct paper source for the size of the paper to be printed.
If you specify [On] in this setting and the same paper is loaded into both the multi-purpose tray and the paper drawer, paper is fed from the multi-purpose tray.

[**Off**]
[On]

[Check Paper Size in Tray]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify whether to determine the paper size in the paper source and the paper size in the printer driver. When [On] is selected, printing is canceled if the paper sizes do not match.

[**Off**]
[On]

[Recovery Printing]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify whether to resume printing from the page where an error that stops printing occurred after the error is resolved.

* When [Off] is selected, the page where the error occurred is not printed. Printing resumes from the next page, but it may resume two pages later when using 2-sided printing and depending on when the error occurred.

[Off]
[**On**]

[UFR II]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify the print data processing method used when the UFR II Printer Driver is used.

[Halftones]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [UFR II]

Specify the print method used to reproduce halftones (intermediate areas between light and dark areas) according to the print data content.

To Print Data with Fine Lines and Small Text (such as CAD Data)
Set [Error Diffusion] to [On].

* Only applicable if [Resolution] is set to [600 dpi]. **[Resolution](P. 347)**

* Specifying [On] in this setting may lower the stability of toner fixing and textures.

To Print Other Data Types
Set [Error Diffusion] to [Off] and specify the respective halftone reproduction method in [Resolution/Gradation]. This can be set separately for text, graphics (lines or figures), and images (photos).

- Specify [Resolution] for high-resolution printing where text outlines are clear. Suitable for printing data with text and fine lines.
- Specify [Gradation] for smooth printing of tones and outlines. Suitable for printing data such as figures that use gradations.

[Error Diffusion]
[**Off**]
[On]

[Resolution/Gradation][*1]
[Text]

[**Resolution**]
[Gradation]
[Graphics]
[Resolution]
[**Gradation**]
[Image]
[Resolution]
[**Gradation**]

*1 May not be displayed depending on the model, the installed options, and other settings.

[Matching Method]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [UFR II]

Specify whether to adjust the color according to the print data.

- Specify [General] in this setting to print with the color tones adjusted to suit ordinary documents such as photos or text documents.
- Specify [Perceptual] in this setting to print with the color tones adjusted to suit bitmap images so that the printed colors match the colors shown on screen.
- Specify [Colorimetric] in this setting to minimize color aberrations when converting RGB data to CMYK data.
- Specify [Vivid Photo] in this setting to print with the color tones corrected to give more intense and vivid colors than the [General] setting.

[**General**]
[Perceptual]
[Colorimetric]
[Vivid Photo]

[Gray Compensation]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [UFR II]

Specify whether to print black or gray RGB data where R=G=B using 1-color black (K) toner. This can be set separately for text, graphics (lines or figures), and images (photos).
If [Off] is specified in this setting, black and gray are printed using the four CMYK toner colors.

[Text]
[Off]
[**On**]

[Graphics]
[Off]
[**On**]

[Image]
[Off]
[**On**]

[Paper Save]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [UFR II]

Specify whether to disable output for blank pages included in the print data.

[Off]
[**On**]

[PCL]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify the PCL printing settings, such as page layout and print quality.

[Paper Save]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Specify whether to disable output for blank pages included in print data.

[**Off**]
[On]

[Orientation]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Select [Portrait] (vertical orientation) or [Landscape] (horizontal orientation) as the page orientation.

[**Portrait**]
[Landscape]

[Font Number]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Specify the font to use by selecting a corresponding font ID number.

* You can print the PCL font list with font samples from the operation panel. **Printing and Viewing Reports and Lists(P. 286)**

0 to 104

[Point Size]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Set the font size in points, adjustable in 0.25 increments.

- You can specify this setting only when a proportionally-spaced scalable font is selected in [Font Number].

* [Point Size] may not be displayed depending on the model, the installed options, and other settings.

4.00 to **12.00** to 999.75 (point)

[Pitch]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Set the font pitch, or cpi (characters per inch), adjustable in 0.01 increments.

- You can specify this setting only when a fixed-pitch scalable font or a bitmap font is selected in [Font Number].

* [Pitch] may not be displayed depending on the model, the installed options, and other settings.

0.44 to **10.00** to 99.99 (cpi)

[Form Lines]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Set the number of lines printed on one page from 5 to 128.

- This setting is automatically changed according to the settings specified in [Default Paper Size] and [Orientation].

* Depending on your country or region, the [Form Lines] setting may not be available, or its content or default setting may be different.

5 to **64** to 128 (lines)

[Character Code]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Select the character code that is best suited to the computer you are sending print data from.

- The specified setting is ignored when the character code is controlled by the font specified in [Font Number].

[ARABIC8]	[PC850]
[DESKTOP]	[PC851]
[GREEK8]	[PC852]
[HEBREW7]	[PC858]
[HEBREW8]	[PC862]
[ISO4]	[PC864]
[ISO6]	[PC866]
[ISO11]	[PC8DN]
[ISO15]	[PC8GRK]
[ISO17]	[PC8TK]
[ISO21]	[PC1004]
[ISO60]	[PIFONT]
[ISO69]	[PSMATH]
[ISOCYR]	[PSTEXT]
[ISOGRK]	[ROMAN8]
[ISOHEB]	[ROMAN9]
[ISOL1]	[VNINTL]
[ISOL2]	[VNMATH]
[ISOL5]	[VNUS]
[ISOL6]	[WIN30]
[ISOL9]	[WINARB]
[LEGAL]	[WINBALT]
[MATH8]	[WINCYR]
[MCTEXT]	[WINGRK]
[MSPUBL]	[WINL1]
[PC775]	[WINL2]
[**PC8**]	[WINL5]

[Custom Paper]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Specify whether to set a custom paper size.
Specify [On] to set the dimensions of the paper in [X dimension] and [Y dimension].

[**Off**]
[On]

[Unit of Measure]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Select the unit of measurement used to set custom paper sizes.

* Depending on your country or region, the [Unit of Measure] setting may not be displayed, or its content or default setting may be different.

[**Millimeter**]
[Inch]

[X dimension]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Specify the horizontal dimension (short edge) of the custom paper.

* [X dimension] may not be displayed depending on the model, the installed options, and other settings.

76 to **216** (mm)

[Y dimension]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Specify the vertical dimension (long edge) of the custom paper.

* [Y dimension] may not be displayed depending on the model, the installed options, and other settings.

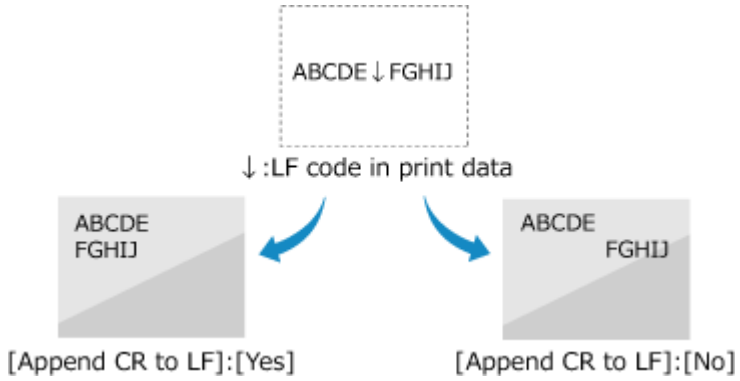
127 to **356** (mm)

[Append CR to LF]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Select whether to append a carriage return (CR) when the machine receives a line feed code (LF).

- If [Yes] is selected, the print position moves to the beginning of the next line when the machine receives an LF code.
- If [No] is selected, the print position moves to the next line, just under the received LF code.



[**Yes**]
[**No**]

[Enlarge A4 Print Width]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Select whether to expand the width of the printable area of A4 size paper in portrait orientation to that of Letter size.

[**Off**]
[On]

[Halftones]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Specify the print method used to reproduce halftones (intermediate areas between light and dark areas) according to the print data content.

To Print Data with Fine Lines and Small Text (such as CAD Data)
Set [Error Diffusion] to [On].

* Only applicable if [Resolution] is set to [600 dpi]. **[Resolution](P. 347)**

* Specifying [On] in this setting may lower the stability of toner fixing and textures.

To Print Other Data Types
Set [Error Diffusion] to [Off] and specify the respective halftone reproduction method in [Resolution/Gradation]. This can be set separately for text, graphics (lines or figures), and images (photos).

- Specify [Resolution] for high-resolution printing where text outlines are clear. Suitable for printing data with text and fine lines.
- Specify [Gradation] for smooth printing of tones and outlines. Suitable for printing data such as figures that use gradations.

[Error Diffusion]
  [**Off**]
  [On]

[Resolution/Gradation]*1
  [Text]
    [**Resolution**]
    [Gradation]
  [Graphics]
    [Resolution]
    [**Gradation**]
  [Image]
    [Resolution]
    [**Gradation**]

*1 May not be displayed depending on the model, the installed options, and other settings.

[Matching Method]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Specify whether to adjust the color according to the print data.

- Specify [General] in this setting to print with the color tones adjusted to suit ordinary documents such as photos or text documents.
- Specify [Perceptual] in this setting to print with the color tones adjusted to suit bitmap images so that the printed colors match the colors shown on screen.

- Specify [Colorimetric] in this setting to minimize color aberrations when converting RGB data to CMYK data.
- Specify [Vivid Photo] in this setting to print with the color tones corrected to give more intense and vivid colors than the [General] setting.

[**General**]
[Perceptual]
[Colorimetric]
[Vivid Photo]

[Gray Compensation]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Specify whether to print black or gray RGB data where R=G=B using 1-color black (K) toner. This can be set separately for text, graphics (lines or figures), and images (photos).
If [Off] is specified in this setting, black and gray are printed using the four CMYK toner colors.

[Text]
[Off]
[**On**]

[Graphics]
[Off]
[**On**]

[Image]
[Off]
[**On**]

[BarDIMM]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

This setting enables you to print bar codes supported by the Barcode Printing Kit.

- If [Enable] is selected, the machine will generate bar codes when it receives bar code commands from the host computer.
- If [Disable] is selected, bar codes will not be generated, even if bar code commands are sent from the host computer.

* To enable the BarDIMM menu, it is necessary to activate the Barcode Printing Kit. When you are not printing bar codes, make sure to disable the BarDIMM menu. Otherwise, the processing speed of regular print jobs may be reduced.

* The default setting is [Disable]. If you activate the Barcode Printing Kit, it changes to [Enable].

[**Disable**]
[Enable]

[FreeScape]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PCL]

Specify the AEC (Alternate Escape Code) to be used for bar code commands when the host computer does not support the standard Escape Code.

* This setting is available only when [BarDIMM] is enabled.

[Off]

[~]
["]
[#]
[$]
[/]
[\]
[?]
[{]
[}]
[|]

[PS]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify the PS printing settings such as page layout and print quality.

* [PS] may not be displayed depending on the model, the installed options, and other settings.

[Job Timeout]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

This setting enables you to specify the amount of time before a job times out.

- If a job has not finished within the set time limit, the job is automatically canceled.

0 to 3600 (sec.)

[Print PS Errors]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

This setting determines whether an error page is printed when an error is encountered.

[**Off**]
[On]

[Line Refinement]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

Specify whether to standardize the thickness of fine lines in printed documents.

* Specifying [On (Slim)] in this setting will produce finer lines than the [On] setting, but may also cause lines to be too fine or faded.

[**On**]
[On (Slim)]
[Off]

[Pure Black Text]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

Specify whether to print black text using 1-color black (K) toner.
If you specify [Off] in this setting, documents are printed according to the settings in [Output Profile].
[Output Profile](P. 369)

* This applies to black text where the color information is as follows:

- R = G = B = 0%
- C = M = Y = 100%
- C = M = Y = 0%, K = 100%

[Off]
[**On**]

[Black Overprint]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

Specify whether overprinting (printing colors on top of each other) is used when black text appears on a color background or is overlaid on a colored figure.

If [Off] is specified
The colored background or figure behind the black text is printed knocked out (left blank) and the black text is then printed into the knocked-out area.



* Specifying [Off] in this setting may result in black being printed paler or a white border appearing around the edges of black text.

If [On] is specified
The colored background or figure is printed and the black text is then printed on top of the color.



* You can specify this setting if the setting for black text is to print using 1-color black (K) toner. **[Pure Black Text](P. 368)**

* [Black Overprint] may not be displayed depending on the model, the installed options, and other settings.

[Off]
[**On**]

[RGB Source Profile]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

Specify the color profile for RGB data that is appropriate for the monitor being used.

- Specify [sRGB] in this setting if you are using an sRGB monitor. This adjusts the colors to the industry standard for ordinary Windows monitors so that printed colors match those shown on the monitor.
- To ensure no loss in the brightest and darkest areas of the data, specify a value from [Gamma 1.5] to [Gamma 2.4] in this setting. Higher settings produce darker prints.
- To convert to CMYK data when no RGB input profile is used, specify [None].

[**sRGB**]
[Gamma 1.5]
[Gamma 1.8]
[Gamma 2.4]
[None]

[CMYK Simulation Profile]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

Specify the simulation target used to print CMYK data. The machine converts CMYK data to a device-dependent CMYK color model based on the simulation.

- Specify [JapanColor(Canon)] in this setting to print with color tones close to the Japanese standard. The JapanColor profile is applied.
- Specify [U.S. Web Coated v1.00(Canon)] in this setting to print with color tones close to the US standard. The U.S. Web Coated profile is applied.
- Specify [Euro Standard v1.00(Canon)] in this setting to print with color tones close to the European standard. The Euro Standard profile is applied.
- Specify [None] to print without using a CMYK simulation profile. CMYK data is then printed using a device-dependent CMYK color model. Depending on the data, some gradations of dark colors may not be reproduced.

[JapanColor(Canon)]
[U.S. Web Coated v1.00(Canon)]
[Euro Standard v1.00(Canon)]
[**None**]

[Use Grayscale Profile]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

Specify whether to convert gray data to CMYK data using the machine's grayscale profile.

* Even when [On] is specified in this setting, depending on the [Output Profile] and [Pure Black Text] settings, the data will be printed in 1-color black (K) toner.
[Output Profile](P. 363)
[Pure Black Text](P. 361)

[**Off**]
[On]

[Output Profile]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

Specify the appropriate profile for the print data. This can be set separately for text, graphics (lines or figures), and images (photos).

- Specify [Normal] in this setting to print with the color tones adjusted to closely match the monitor display.
- Specify [Photo] in this setting to print with the color tones adjusted to resemble a photo.
- Specify [TR Normal] in this setting to adjust the color tones to closely match the monitor display and reproduce black and gray areas as 1-color black (K) toner.
- Specify [TR Photo] in this setting to adjust the color tones to resemble a photo and reproduce black and gray areas as 1-color black (K) toner.

[Text]
  [Normal]
  [Photo]
  [TR Normal]
  [**TR Photo**]

[Graphics]
  [Normal]

[Photo]
[TR Normal]
[**TR Photo**]

[Image]
[Normal]
[Photo]
[TR Normal]
[**TR Photo**]

NOTE

- If any of the following settings is used, the [Output Profile] setting is ignored.
  - [RGB Source Profile] is set to [None]. **[RGB Source Profile](P. 362)**
  - [CMYK Simulation Profile] is set to [None]. **[CMYK Simulation Profile](P. 363)**
  - [Use Grayscale Profile] is set to [Off]. **[Use Grayscale Profile](P. 363)**

[Matching Method]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

Specify which element is to be prioritized during color adjustment in the [RGB Source Profile]. **[RGB Source Profile](P. 362)**

- When printing photos or bitmap images, specify [Perceptual] in this setting to prioritize color tones.
- When printing artwork and graphs for presentations, specify [Saturation] in this setting to prioritize clarity and vividness.
- Specify [Colorimetric] in this setting to reproduce RGB color values as accurately as possible within the scope of the machine to reproduce colors and to minimize color aberrations.

* This item cannot be set when [RGB Source Profile] is set to [None].

[**Perceptual**]
[Saturation]
[Colorimetric]

[Halftones]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

Specify the print method used to reproduce halftones (intermediate areas between light and dark areas) according to the print data content.

To Print Data with Fine Lines and Small Text (such as CAD Data)
Set [Error Diffusion] to [On].

* Only applicable if [Resolution] is set to [600 dpi]. **[Resolution](P. 347)**

* Specifying [On] in this setting may lower the stability of toner fixing and textures.

To Print Other Data Types
Set [Error Diffusion] to [Off] and specify the respective halftone reproduction method in [Resolution/Gradation]. This can be set separately for text, graphics (lines or figures), and images (photos).

- Specify [Resolution] for high-resolution printing where text outlines are clear. Suitable for printing data with text and fine lines.
- Specify [Gradation] for smooth printing of tones and outlines. Suitable for printing data such as figures that use gradations.

[Error Diffusion]

[Off]
[On]

[Resolution/Gradation]*1
[Text]
[Resolution]
[Gradation]
[Graphics]
[Resolution]
[Gradation]
[Image]
[Resolution]
[Gradation]

*1 May not be displayed depending on the model, the installed options, and other settings.

[Brightness]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

Adjust the brightness of printed images in 5% increments. The higher the value, the darker the image will be printed.

* [Brightness] may not be displayed depending on the model, the installed options, and other settings.

85 to **100** to 115 (%)

[Composite Overprint]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

Specify whether to overprint CMYK data as composite output with overprinting specified.
Specifying [Off] in this setting prints the image as if overprinting were not specified.

* Overprinting with special colors is not used, even if [On] is specified here.

[**Off**]
[On]

[Grayscale Conversion]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

Specify the conversion method when printing color data in black and white.

- Specify [sRGB] for black and white printing with smooth gradations to represent different colors.
- Specify [NTSC] for black and white printing that looks similar to NTSC television images.
- Specify [Uniform RGB] for uniform black and white printing of RGB over the entire document, based on the brightness.

* [Grayscale Conversion] may not be displayed depending on the model, the installed options, and other settings.

[sRGB]
[**NTSC**]
[Uniform RGB]

[PS Password Settings]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PS]

You can specify the password that restricts the use of the control command prepared by the PS printer.

- [SystemParamsPassword] is a password that allows changes to the system parameter, and [StartJobPassword] is a password that allows the startjob and exitserver operators to perform. For more information, check the PostScript language specifications.

* If [StartJobPassword] is set but [SystemParamsPassword] is not set, password check will not be performed while performing the startjob or exitserver operator.

[SystemParamsPassword]
[StartJobPassword]

[Imaging Settings]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify the print data processing method used for printing JPEG or TIFF format image files.

[Halftones]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Imaging Settings]

Specify the print method used to reproduce halftones (intermediate areas between light and dark areas) according to the image content.

To Print Images with Fine Gradations, Such as Digital Camera Photos
Specify [Gradation] in this setting. This reproduces gradations smoothly.

To Print Images with Fine Lines and Small Text, Such as CAD Images
Specify [Error Diffusion] in this setting. Fine lines and small text are printed in high definition.

* Specifying [Error Diffusion] in this setting may lower the stability of toner fixing and textures.

[**Gradation**]
[Error Diffusion]

[Matching Method]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [Imaging Settings]

Select how to correct the color when printing.
When you select [Vivid Photo], the color tone is corrected to deeper and more vivid colors than with [General].

[**General**]
[Vivid Photo]

[PDF]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify the print data processing method used for printing PDF format files.

[Enlarge/Reduce to Fit Paper Size]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify whether to enlarge or reduce documents to fit the paper used for printing.

* If you specify [On] in this setting, documents are enlarged or reduced while maintaining their aspect ratio.

[**Off**]
[On]

[Enlarge Print Area]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify whether to print with the print area enlarged so that it occupies the entire paper, leaving no margins around the edges of the paper.

* In some documents, specifying [On] in this setting may lead to images being printed with some of the edges cut off, or to smudging on some parts of the paper.

[**Off**]
[On]

[N on 1]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify whether to reduce the size of a multi-page original and print the pages arranged on one sheet of paper. To print multiple pages on one sheet (N on 1), select the number of pages to be combined.
Example: To print a 4-page document on one side of the paper
Select [4 on 1].

[**Off**]
[2 on 1]
[4 on 1]
[6 on 1]
[8 on 1]
[9 on 1]
[16 on 1]

[Print Comments]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify whether to print the comments in a PDF file.
If you specify [Auto] in this setting, the document and comments*1 are printed.

*1 This only applies to comments specified for printing within the PDF file.

[Off]
[**Auto**]

[Line Refinement]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify whether to standardize the thickness of fine lines in printed documents.
Specifying [On (Slim)] in this setting will produce finer lines than the [On] setting, but may also cause lines to be too fine or faded.

[**On**]
[On (Slim)]

[Off]

[Pure Black Text]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify whether to print black text using 1-color black (K) toner.
If you specify [Off] in this setting, documents are printed according to the settings in [Output Profile]. **[Output Profile](P. 369)**

* This applies to black text where the color information is as follows:

- R = G = B = 0%
- C = M = Y = 100%
- C = M = Y = 0%, K = 100%

[Off]
[**On**]

[Black Overprint]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify whether overprinting (printing colors on top of each other) is used when black text appears on a color background or is overlaid on a colored figure.

If [Off] is specified
The colored background or figure behind the black text is printed knocked out (left blank) and the black text is then printed into the knocked-out area.



* Specifying [Off] in this setting may result in black being printed paler or a white border appearing around the edges of black text.

If [On] is specified
The colored background or figure is printed and the black text is then printed on top of the color.



* You can specify this setting if the setting for black text is to print using 1-color black (K) toner. **[Pure Black Text](P. 368)**

* [Black Overprint] may not be displayed depending on the model, the installed options, and other settings.

[Off]
[**On**]

[RGB Source Profile]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify the color profile for RGB data that is appropriate for the monitor being used.

- Specify [sRGB] in this setting if you are using an sRGB monitor. This adjusts the colors to the industry standard for ordinary Windows monitors so that printed colors match those shown on the monitor.
- To ensure no loss in the brightest and darkest areas of the data, specify a value from [Gamma 1.5] to [Gamma 2.4] in this setting. Higher settings produce darker prints.

- To convert to CMYK data when no RGB input profile is used, specify [None].

[**sRGB**]
[Gamma 1.5]
[Gamma 1.8]
[Gamma 2.4]
[None]

[CMYK Simulation Profile]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify the simulation target used to print CMYK data. The machine converts CMYK data to a device-dependent CMYK color model based on the simulation.

- Specify [JapanColor(Canon)] in this setting to print with color tones close to the Japanese standard. The JapanColor profile is applied.
- Specify [U.S. Web Coated v1.00(Canon)] in this setting to print with color tones close to the US standard. The U.S. Web Coated profile is applied.
- Specify [Euro Standard v1.00(Canon)] in this setting to print with color tones close to the European standard. The Euro Standard profile is applied.
- Specify [None] to print without using a CMYK simulation profile. CMYK data is then printed using a device-dependent CMYK color model. Depending on the data, some gradations of dark colors may not be reproduced.

[JapanColor(Canon)]
[U.S. Web Coated v1.00(Canon)]
[Euro Standard v1.00(Canon)]
[**None**]

[Use Grayscale Profile]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify whether to convert gray data to CMYK data using the machine's grayscale profile.

* Even when [On] is specified in this setting, depending on the [Output Profile] and [Pure Black Text] settings, the data will be printed in 1-color black (K) toner.
[Output Profile](P. 369)
[Pure Black Text](P. 368)

[**Off**]
[On]

[Output Profile]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify the appropriate profile for the print data. This can be set separately for text, graphics (lines or figures), and images (photos).

- Specify [Normal] in this setting to print with the color tones adjusted to closely match the monitor display.
- Specify [Photo] in this setting to print with the color tones adjusted to resemble a photo.
- Specify [TR Normal] in this setting to adjust the color tones to closely match the monitor display and reproduce black and gray areas as 1-color black (K) toner.
- Specify [TR Photo] in this setting to adjust the color tones to resemble a photo and reproduce black and gray areas as 1-color black (K) toner.

[Text]
[Normal]
[Photo]
[TR Normal]
[**TR Photo**]

[Graphics]
[Normal]
[Photo]
[TR Normal]
[**TR Photo**]

[Image]
[Normal]
[Photo]
[TR Normal]
[**TR Photo**]

NOTE

- If any of the following settings is used, the [Output Profile] setting is ignored.
  - [RGB Source Profile] is set to [None]. **[RGB Source Profile](P. 368)**
  - [CMYK Simulation Profile] is set to [None]. **[CMYK Simulation Profile](P. 369)**
  - [Use Grayscale Profile] is set to [Off]. **[Use Grayscale Profile](P. 369)**

[Matching Method]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify which element is to be prioritized during color adjustment in the [RGB Source Profile]. **[RGB Source Profile](P. 368)**

- When printing photos or bitmap images, specify [Perceptual] in this setting to prioritize color tones.
- When printing artwork and graphs for presentations, specify [Saturation] in this setting to prioritize clarity and vividness.
- Specify [Colorimetric] in this setting to reproduce RGB color values as accurately as possible within the scope of the machine to reproduce colors and to minimize color aberrations.

[**Perceptual**]
[Saturation]
[Colorimetric]

[Halftones]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify the print method used to reproduce halftones (intermediate areas between light and dark areas) according to the print data content.

To Print Data with Fine Lines and Small Text (such as CAD Data)
Set [Error Diffusion] to [On].

* Only applicable if [Resolution] is set to [600 dpi]. **[Resolution](P. 347)**

* Specifying [On] in this setting may lower the stability of toner fixing and textures.

To Print Other Data Types

Set [Error Diffusion] to [Off] and specify the respective halftone reproduction method in [Resolution/Gradation]. This can be set separately for text, graphics (lines or figures), and images (photos).

- Specify [Resolution] for high-resolution printing where text outlines are clear. Suitable for printing data with text and fine lines.
- Specify [Gradation] for smooth printing of tones and outlines. Suitable for printing data such as figures that use gradations.

[Error Diffusion]
[**Off**]
[On]

[Resolution/Gradation]*1
[Text]
[**Resolution**]
[Gradation]
[Graphics]
[Resolution]
[**Gradation**]
[Image]
[Resolution]
[**Gradation**]

*1 May not be displayed depending on the model, the installed options, and other settings.

[Brightness]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Adjust the brightness of printed images in 5% increments. The higher the value, the darker the image will be printed.

* [Brightness] may not be displayed depending on the model, the installed options, and other settings.

85 to **100** to 115 (%)

[Composite Overprint]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify whether to overprint CMYK data as composite output with overprinting specified.
Specifying [Off] in this setting prints the image as if overprinting were not specified.

* Overprinting with special colors is not used, even if [On] is specified here.

[**Off**]
[On]

[Grayscale Conversion]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [PDF]

Specify the conversion method when printing color data in black and white.

- Specify [sRGB] for black and white printing with smooth gradations to represent different colors.
- Specify [NTSC] for black and white printing that looks similar to NTSC television images.

- Specify [Uniform RGB] for uniform black and white printing of RGB over the entire document, based on the brightness.

* [Grayscale Conversion] may not be displayed depending on the model, the installed options, and other settings.

[sRGB]
[**NTSC**]
[Uniform RGB]

[XPS]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings]

Specify the print data processing used for printing XPS format files.

[Matching Method]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [XPS]

Specify whether to adjust the color according to the print data.

- Specify [General] in this setting to print with the color tones adjusted to suit ordinary documents such as photos or text documents.
- Specify [Perceptual] in this setting to print with the color tones adjusted to suit bitmap images so that the printed colors match the colors shown on screen.
- Specify [Colorimetric] in this setting to minimize color aberrations when converting RGB data to CMYK data.
- Specify [Vivid Photo] in this setting to print with the color tones corrected to give more intense and vivid colors than the [General] setting.

[**General**]
[Perceptual]
[Colorimetric]
[Vivid Photo]

[Halftones]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [XPS]

Specify the print method used to reproduce halftones (intermediate areas between light and dark areas) according to the print data content.

To Print Data with Fine Lines and Small Text (such as CAD Data)
Set [Error Diffusion] to [On].

* Only applicable if [Resolution] is set to [600 dpi]. **[Resolution](P. 347)**

* Specifying [On] in this setting may lower the stability of toner fixing and textures.

To Print Other Data Types
Set [Error Diffusion] to [Off] and specify the respective halftone reproduction method in [Resolution/Gradation]. This can be set separately for text, graphics (lines or figures), and images (photos).

- Specify [Resolution] for high-resolution printing where text outlines are clear. Suitable for printing data with text and fine lines.
- Specify [Gradation] for smooth printing of tones and outlines. Suitable for printing data such as figures that use gradations.

[Error Diffusion]
[**Off**]

[On]

[Resolution/Gradation]*1
[Text]
[**Resolution**]
[Gradation]
[Graphics]
[Resolution]
[**Gradation**]
[Image]
[Resolution]
[**Gradation**]

*1 May not be displayed depending on the model, the installed options, and other settings.

[Gray Compensation]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [XPS]

Specify whether to print black or gray RGB data where R=G=B using 1-color black (K) toner. This can be set separately for text, graphics (lines or figures), and images (photos).
If [Off] is specified in this setting, black and gray are printed using the four CMYK toner colors.

[Text]
[Off]
[**On**]

[Graphics]
[Off]
[**On**]

[Image]
[Off]
[**On**]

[Grayscale Conversion]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [XPS]

Specify the conversion method used when printing color data in black and white. This can be set separately for text, graphics (lines or figures), and images (photos).

- Specify [sRGB] for black and white printing with smooth gradations to represent different colors.
- Specify [NTSC] for black and white printing that looks similar to NTSC television images.
- Specify [Uniform RGB] for uniform black and white printing of RGB over the entire document, based on the brightness.

* [Grayscale Conversion] may not be displayed depending on the model, the installed options, and other settings.

[Text]
[sRGB]
[**NTSC**]
[Uniform RGB]

[Graphics]
[sRGB]
[**NTSC**]
[Uniform RGB]

[Image]
[sRGB]
[**NTSC**]
[Uniform RGB]

[Paper Save]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [Printer Settings] ▶ [XPS]

Specify whether to disable output for blank pages included in the print data.

[**Off**]
[On]

[PDL Selection (Plug and Play)]

864Y-07E

Specify which Page Description Language (PDL) to use when the machine is connected to a computer using Plug and Play.
* Values in bold red text are the default settings for each item.

[Network](P. 375)
[USB](P. 375)

[Network]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [PDL Selection (Plug and Play)]

Specify the Page Description Language (PDL) to use when the machine is connected to a networked computer using Plug and Play.
When connecting the machine, select from the following:

- When connecting as a UFR II printer: [UFR II]
- When connecting as an XPS-compatible UFR II printer: [UFR II (V4)]
- When connecting as a PCL6 printer: [PCL6] or [PCL6 (V4)]
- When connecting as a PS printer: [PS]

[**UFR II**]
[UFR II (V4)]
[PCL6]*1
[PCL6 (V4)]*1
[PS]*1

*1 May not be displayed depending on the model, the installed options, and other settings.

[USB]

[Menu] ▶ [Function Settings] ▶ [Printer] ▶ [PDL Selection (Plug and Play)]

Specify the Page Description Language (PDL) to use when the machine is connected to a computer via USB using Plug and Play.

- When connecting the machine as a printer, select from the following:
  - When connecting as a UFR II printer: [UFR II]
  - When connecting as an XPS-compatible UFR II printer: [UFR II (V4)]
  - When connecting as a PCL6 printer: [PCL6] or [PCL6 (V4)]
  - When connecting as a PS printer: [PS]

[**UFR II**]
[UFR II (V4)]
[PCL6]*1
[PCL6 (V4)]*1
[PS]*1

*1 May not be displayed depending on the model, the installed options, and other settings.

[Receive]

864Y-07F

Specify the settings for receiving I-Faxes.

[Common Settings](P. 377)
[E-Mail Settings](P. 377)

[Common Settings]

[Menu] ▶ [Function Settings] ▶ [Receive]

Specify the settings for the action when receiving I-Faxes.
[Common Settings](P. 378)

[E-Mail Settings]

[Menu] ▶ [Function Settings] ▶ [Receive]

Specify the settings for printing received I-Faxes.
[E-Mail Settings](P. 379)

[Common Settings]

864Y-07H

Specify the settings for the action when receiving I-Faxes.
* Values in bold red text are the default settings for each item.

[Continue Print. When Cart. Low]

[Menu] ▶ [Function Settings] ▶ [Receive] ▶ [Common Settings]

Specify whether to print received I-Faxes when a toner cartridge is low on toner.

- Printing when a toner cartridge is low on toner may lead to print results that are faint or faded. For this reason, this should normally be set to [Off]. When this setting is used and toner is low, received I-Faxes are stored in the machine's memory.
- If [On] is specified in this setting, received I-Faxes are not stored in the machine's memory. If this leads to print results that are too faint to read, you will need to ask the sender to re-send the I-Fax.

[**Off**]
[On]

[E-Mail Settings]

864Y-07J

Specify the settings for printing received I-Faxes.
* Values in bold red text are the default settings for each item.

[Print on Both Sides](P. 379)
[RX Print Size](P. 379)

[Print on Both Sides]

[Menu] ▶ [Function Settings] ▶ [Receive] ▶ [E-Mail Settings]

Specify whether to use 2-sided printing for received I-Faxes.

[**Off**]
[On]

[RX Print Size]

[Menu] ▶ [Function Settings] ▶ [Receive] ▶ [E-Mail Settings]

Specify the paper size for printing received I-Faxes.

[**A4**]
[LTR]
[LGL]
[FOOLSCAP/FOLIO (215.9x330.2 mm)]
[OFICIO (215.9x317.5 mm)]
[LETTER (Government) (203.2x266.7 mm)]
[LEGAL (Government) (203.2x330.2 mm)]
[LEGAL (India) (215.0x345.0 mm)]
[FOOLSCAP (Australia) (206.0x337.0 mm)]
[OFICIO (Brazil) (215.9x355.0 mm)]
[OFICIO (Mexico) (215.9x341.0 mm)]

[Access Files]

864Y-07K

Specify the settings for using a USB memory device.
* Values in bold red text are the default settings for each item.

[Common Settings](P. 380)
[Memory Media Settings](P. 380)
[Screen When Mem. Med. Conn](P. 380)

[Common Settings]

[Menu] ▶ [Function Settings] ▶ [Access Files]

Specify the settings for Memory Media Print.
[Common Settings](P. 381)

[Memory Media Settings]

[Menu] ▶ [Function Settings] ▶ [Access Files]

Specify the functions that can be used when a USB memory device is plugged into the machine.

- To allow data in a USB memory device to be printed, set [Use Print Function] to [On].
- To restrict the printing of data in a USB memory device, set [Use Print Function] to [Off]. **Preventing Use of Memory Media When Printing(P. 255)**

[Use Print Function]
[**Off**]
[On]

[Screen When Mem. Med. Conn]

[Menu] ▶ [Function Settings] ▶ [Access Files]

Configure the settings to display the operation (Memory Media Print) screen when a USB memory device is inserted into the machine.

[**Off**]
[On]

[Common Settings]

864Y-07L

Specify the settings for Memory Media Print.
* Values in bold red text are the default settings for each item.

[Access Stored Files Settings](P. 381)

[Access Stored Files Settings]

[Menu] ▶ [Function Settings] ▶ [Access Files] ▶ [Common Settings]

Specify the settings for printing and displaying files in a USB memory device.

[Change Default Settings (Memory Media Print)]

[Menu] ▶ [Function Settings] ▶ [Access Files] ▶ [Common Settings] ▶ [Access Stored Files Settings]

Change the default settings for Memory Media Print. **Changing the Default Settings(P. 138)**
When you press [Reset] in the Memory Media print screen, the settings revert to the values specified here.

[Paper]
[Multi-Purpose Tray]
[**Drawer 1**]
[Drawer 2]*1

[Number of Copies]
1 to 999

[2-Sided Printing]
[**Off**]
[Book Type]
[Calendar Type]

[Set JPEG/TIFF Details]
[Brightness]
5 levels
[N on 1]
[**Off**]
[2 on 1]
[4 on 1]
[Original Type]
[**Photo Priority**]
[Text Priority]
[Halftones]
[Gradation]
[**Error Diffusion**]
[Matching Method]
[**General**]
[Vivid Photo]

[Set PDF Details]

[Brightness]
7 levels
[N on 1]
[**Off**]
[2 on 1]
[4 on 1]
[6 on 1]
[8 on 1]
[9 on 1]
[16 on 1]
[Print Range]
[**All Pages**]
[Specified Pages]
[Enlarge/Reduce to Fit Paper Size]
[**Off**]
[On]
[Enlarge Print Area]
[**Off**]
[On]
[Print Comments]
[Off]
[**Auto**]
[Line Refinement]
[**On**]
[On (Slim)]
[Off]
[Other Settings]
[Halftones]
[Error Diffusion]
[**Off**]
[On]
[Resolution/Gradation]*1
[Text]
[**Resolution**]
[Gradation]
[Graphics]
[Resolution]
[**Gradation**]
[Image]
[Resolution]
[**Gradation**]
[Pure Black Text]
[Off]
[**On**]
[Black Overprint]*1
[Off]
[**On**]
[RGB Source Profile]
[**sRGB**]

[Gamma 1.5]
[Gamma 1.8]
[Gamma 2.4]
[None]
[CMYK Simulation Profile]
[JapanColor(Canon)]
[U.S. Web Coated v1.00(Canon)]
[Euro Standard v1.00(Canon)]
[**None**]
[Use Grayscale Profile]
[**Off**]
[On]
[Output Profile]
[Text]
[Normal]
[Photo]
[TR Normal]
[**TR Photo**]
[Graphics]
[Normal]
[Photo]
[TR Normal]
[**TR Photo**]
[Image]
[Normal]
[Photo]
[TR Normal]
[**TR Photo**]
[Matching Method]
[**Perceptual**]
[Saturation]
[Colorimetric]
[Composite Overprint]
[**Off**]
[On]
[Grayscale Conversion]
[sRGB]
[**NTSC**]
[Uniform RGB]
[Print Quality]
[Density][*1]
Yellow/Magenta/Cyan/Black
17 levels
[Fine Adjust]
[Yellow]/[Magenta]/[Cyan]/[Black]
[High]/[Medium]/[Low]
17 levels
[Toner Save]

[**Off**]
[On]
[Gradation]
[**High 1**]
[High 2]
[Density Fine Adjustment]
5 levels
[Resolution]
[1200 dpi]
[**600 dpi**]
[Special Smoothing Mode]
[**Mode 1**]
[Mode 2]
[Mode 3]
[Mode 4]
[Mode 5]
[Mode 6]
[Toner Volume Correction]
[**Standard**]
[Gradation Priority]
[Text Priority]
[Line Control]
[**Resolution Priority**]
[Gradation Priority]
[Width Adjustment]
[**Off**]
[On]
[Text]
[Line]
[**Text and Line**]
[Advanced Smoothing]
[Advanced Smoothing]
[Off]
[**Level 1**]
[Level 2]
[Apply to Graphics]*1
[**Off**]
[On]
[Apply to Text]*1
[Off]
[**On**]
[Gradation Smoothing]
[Gradation Smoothing]
[**Off**]
[Level 1]
[Level 2]
[Apply to Graphics]*1
[Off]
[**On**]

[Apply to Images]*1
[Off]
[**On**]

*1 May not be displayed depending on the model, the installed options, and other settings.

[Default Display Settings]

[Menu] ▶ [Function Settings] ▶ [Access Files] ▶ [Common Settings] ▶ [Access Stored Files Settings]

Specify how files in a USB memory device are displayed.
Files in the file selection screen for a USB memory device are displayed as specified here. **Screen for Selecting Files in USB Memory Device(P. 176)**

[Preview]
[Thumbnail]
[**Details**]

[File Sort Default Settings]

[Menu] ▶ [Function Settings] ▶ [Access Files] ▶ [Common Settings] ▶ [Access Stored Files Settings]

Specify the display order for files in a USB memory device.

[**Name (Ascending)**]
[Name (Descending)]
[Date/Time (Ascending)]
[Date/Time (Descending)]

[File Name Display Format]

[Menu] ▶ [Function Settings] ▶ [Access Files] ▶ [Common Settings] ▶ [Access Stored Files Settings]

Specify the display format for files in a USB memory device.

- Specify [Short File Name] in this setting to use abbreviated file names in the display. File names are truncated to a maximum of eight characters. Numbers are added to the ends of file names to distinguish between files with similar names.
- To show the file names in full, specify [Long File Name] in this setting. Up to 40 characters are shown unabbreviated.

* The character count for file names does not include the file extension.

[Short File Name]
[**Long File Name**]

[Management Settings]

864Y-07R

Specify the settings for managing the machine users, the system, and other data.

[User Management](P. 386)
[Device Management](P. 386)
[Remote UI Settings/Update Firmware](P. 386)
[Data Management](P. 386)
[Security Settings](P. 386)
[Initialize All Data/Settings](P. 386)

[User Management]

[Menu] ▶ [Management Settings]

Register and manage information on the machine's administrator and users.
[User Management](P. 388)

[Device Management]

[Menu] ▶ [Management Settings]

Specify and manage the settings for information and operations relating to the machine's hardware.
[Device Management](P. 389)

[Remote UI Settings/Update Firmware]

[Menu] ▶ [Management Settings]

Specify and manage the settings for information and operations relating to the machine's software.
[Remote UI Settings/Update Firmware](P. 391)

[Data Management]

[Menu] ▶ [Management Settings]

Manage or initialize stored data and the machine's settings.
[Data Management](P. 393)

[Security Settings]

[Menu] ▶ [Management Settings]

Specify and manage the security settings, such as the machine's authentication functions and system verification.
[Security Settings](P. 395)

[Initialize All Data/Settings]

[Menu] ▶ [Management Settings]

Initialize the settings and registered data to reset the machine to the factory settings. **Initializing the Settings and Data(P. 295)**

[User Management]

864Y-07S

Register and manage information on the machine's administrator and users.
* Values in bold red text are the default settings for each item.

[System Manager Information Settings](P. 388)
[Department ID Management](P. 388)

[System Manager Information Settings]

[Menu] ▶ [Management Settings] ▶ [User Management]

Specify a System Manager ID and System Manager PIN to create a dedicated administrator account.
If needed, you can also specify the administrator's name.
Use Remote UI from a computer to specify other administrator information, such as the e-mail address. **Setting the Department ID and PIN for the Administrator(P. 211)**

[System Manager ID and PIN]
  [System Manager ID]
  [System Manager PIN]

[System Manager Name]

[Department ID Management]

[Menu] ▶ [Management Settings] ▶ [User Management]

To enhance security and manage function use and costs, assign a Department ID to users and groups that use the machine. **Authenticating Users and Managing Groups with Department ID (Department ID Management) (P. 214)**

[Enable Dept. ID Management]
  [**Off**]
  [On]
    [Allow Print Jobs (Unknown IDs)]
      [Off]
      [**On**]

[Register/Edit]

[Count Mngt.]

[Device Management]

864Y-07U

Specify and manage settings for information and operations relating to the machine's hardware.
* Values in bold red text are the default settings for each item.

[Device Information Settings](P. 389)
[Select Country/Region](P. 389)
[Display Job Log](P. 389)
[Notify to Check Paper Settings](P. 390)
[Canon Genuine Mode](P. 390)
[Displ. uniFLOW Online Setup Button](P. 390)

[Device Information Settings]

[Menu] ▶ [Management Settings] ▶ [Device Management]

Specify a name to identify the machine and the installation location.
The information specified here appears in the Remote UI Portal page. **Portal Page of Remote UI(P. 280)**

[Device Name]
[Location]

[Select Country/Region]

[Menu] ▶ [Management Settings] ▶ [Device Management]

Specify the country or region where the machine is used. The default setting may vary depending on the setting selected at initial power-ON.

* Depending on your country or region, the [Select Country/Region] setting may not be available, or its content or default setting may be different.

[Austria (AT)]	[Luxembourg (LU)]
[Belarus (BY)]	[Netherlands (NL)]
[Belgium (BE)]	[Norway (NO)]
[Czech Republic (CZ)]	[Poland (PL)]
[Denmark (DK)]	[Portugal (PT)]
[Egypt (EG)]	[Russia (RU)]
[Finland (FI)]	[Saudi Arabia (SA)]
[France (FR)]	[Slovenia (SI)]
[Germany (DE)]	[South Africa (ZA)]
[**Great Britain (GB)**]	[Spain (ES)]
[Greece (GR)]	[Sweden (SE)]
[Hungary (HU)]	[Switzerland (CH)]
[Ireland (IE)]	[United Arab Emirates (AE)]
[Italy (IT)]	[Ukraine (UA)]
[Jordan (JO)]	[Other]

[Display Job Log]

[Menu] ▶ [Management Settings] ▶ [Device Management]

Specify whether the logs for printing are shown on the Status Monitor screen.
[Status Monitor] Screen(P. 99)
Checking Usage and Logs with Remote UI(P. 282)
Printing and Viewing Reports and Lists(P. 286)

[Off]
[**On**]

[Notify to Check Paper Settings]

[Menu] ▶ [Management Settings] ▶ [Device Management]

Specify whether the Notify to Check Paper Settings screen appears when the paper drawer is loaded into the machine.
Loading Paper in the Paper Drawer(P. 112)

[Off]
[**On**]

[Canon Genuine Mode]

[Menu] ▶ [Management Settings] ▶ [Device Management]

Specify whether to switch to Canon Genuine Mode.

- Normally, there is no need to change this setting.
- Your Canon service representative may change this setting. If this setting is not displayed, contact the machine's administrator.

[**Off**]
[On]

[Displ. uniFLOW Online Setup Button]

[Menu] ▶ [Management Settings] ▶ [Device Management]

On the [Home] screen of the operation panel, select whether to display the buttons for installing the uniFLOW Online and uniFLOW Online Express applications.

[**Off**]
[On]

[Remote UI Settings/Update Firmware]

864Y-07W

Specify and manage the settings for information and operations relating to the machine's software.

[Register License](P. 391)
[Remote UI Settings](P. 391)
[Update Firmware](P. 391)

[Register License]

[Menu] ▶ [Management Settings] ▶ [Remote UI Settings/Update Firmware]

To use the system options with the machine, register your license key.

[Remote UI Settings]

[Menu] ▶ [Management Settings] ▶ [Remote UI Settings/Update Firmware]

Specify the settings for using Remote UI and for Restrict Access for Remote UI.
[Remote UI Settings](P. 392)

[Update Firmware]

[Menu] ▶ [Management Settings] ▶ [Remote UI Settings/Update Firmware]

Check the machine's firmware version and update the firmware via the Internet or a computer. **Updating the Firmware(P. 292)**

[Via PC]
[Via Internet]
[Version Information]
[Notification] [**Off**] [On]

[Remote UI Settings]

864Y-07X

Specify the settings for using Remote UI and for Restrict Access for Remote UI.
* Values in bold red text are the default settings for each item.

[Remote UI](P. 392)
[Restrict Access](P. 392)

[Remote UI]

[Menu] ▶ [Management Settings] ▶ [Remote UI Settings/Update Firmware] ▶ [Remote UI Settings]

Specify whether to use Remote UI. **Disabling Remote UI(P. 262)**
If you opt to use Remote UI, you can also specify whether to use TLS encryption for communication when using Remote UI. **Using TLS(P. 230)**

[Use Remote UI]
  [Off]
  [**On**]
    [Use TLS]
      [**Off**]
      [On]

[Restrict Access]

[Menu] ▶ [Management Settings] ▶ [Remote UI Settings/Update Firmware] ▶ [Remote UI Settings]

When using Remote UI, set this setting to [On], and set the Remote UI Access PIN. **Setting the PIN to Use for Remote UI(P. 261)**

[**Off**]

[On]
  [Remote UI Access PIN]

[Data Management]

864Y-07Y

Manage or initialize the data and settings on the machine.
* Values in bold red text are the default settings for each item.

[Import/Export](P. 393)
[Enable Prod. Ext'd Survey Prog.](P. 393)
[Initialize Key and Certificate](P. 393)
[Initialize Menu](P. 393)

[Import/Export]

[Menu] ▶ [Management Settings] ▶ [Data Management]

Import or export the various settings.
When importing is completed, the machine restarts automatically.

- To import or export using the operation panel, use a USB memory device. **Inserting and Removing a USB Memory Device(P. 135)**
- To import or export particular items, use Remote UI from a computer. **Importing and Exporting the Settings(P. 289)**

[Import]
[Export]

[Enable Prod. Ext'd Survey Prog.]

[Menu] ▶ [Management Settings] ▶ [Data Management]

Specify whether to use the Product Extended Survey Program (a program for surveying machine usage).

The Product Extended Survey Program is installed at the same time as the drivers. It automatically sends monthly updates of information on device usage to Canon over a 10-year period. The program does not send personal information or any information other than that shown above.

[Off]
[**On**]

[Initialize Key and Certificate]

[Menu] ▶ [Management Settings] ▶ [Data Management]

Initialize the key and certificate settings and CA certificate settings, and delete all keys and certificates other than pre-installed ones. **Initializing Specific Settings and Data(P. 295)**

[Initialize Menu]

[Menu] ▶ [Management Settings] ▶ [Data Management]

Initialize the [Menu] settings in the [Home] screen. Select the settings to be initialized. **Initializing Specific Settings and Data(P. 295)**

[Preferences]
[Adjustment/Maintenance]
[Function Settings]
[Management Settings]
[Initialize All]

[Security Settings]

864Y-080

Specify and manage security settings such as the machine's authentication functions and system verification.
* Values in bold red text are the default settings for each item.

[Authentication/Password Settings](P. 395)
[Encryption Settings](P. 395)
[Verify System at Startup](P. 395)

[Authentication/Password Settings]

[Menu] ▶ [Management Settings] ▶ [Security Settings]

Configure the authentication functions for the machine.
[Authentication/Password Settings](P. 396)

[Encryption Settings]

[Menu] ▶ [Management Settings] ▶ [Security Settings]

Specify whether to restrict the use of weak encryption or keys and certificates that use weak encryption.

[Prohibit Use of Weak Encrypt.]
[**Off**]
[On]
[Prohibit Weak Encryp. Key/Cert.]
[**Off**]
[On]

[Verify System at Startup]

[Menu] ▶ [Management Settings] ▶ [Security Settings]

Verify that the system and the applications have not been tampered with when starting up the machine or running applications (Application Library).

If Tampering is Detected

- The machine switches to update standby mode. You need to update the firmware. **Updating the Firmware(P. 292)**
- If applications added to the machine have been tampered with, the affected applications must be re-installed.
- If the screen remains blank after some time, system recovery may not be possible. Contact your dealer or service representative. **If the Problem Persists(P. 507)**

[**Off**]
[On]

[Authentication/Password Settings]

864Y-081

Specify the settings for the machine's authentication functions.
* Values in bold red text are the default settings for each item.

[Authentication Function Settings](P. 396)

[Authentication Function Settings]

[Menu] ▶ [Management Settings] ▶ [Security Settings] ▶ [Authentication/Password Settings]

Specify the settings for enhanced security using the authentication functions.

[Lockout]

[Menu] ▶ [Management Settings] ▶ [Security Settings] ▶ [Authentication/Password Settings] ▶ [Authentication Function Settings]

Specify whether to switch to a state that does not permit login (lockout) for a set period if authentication fails. If you use lockout, you can also specify how many consecutive times authentication fails before lockout is invoked in [Lockout Threshold] and specify the length of the lockout period in [Lockout Period].

* This does not apply to Department ID authentication.

[Enable Lockout]
[**Off**]
[On]
[Lockout Threshold]
1 to 10 (time(s))
[Lockout Period]
1 to 60 (min.)

Settings that Can Be Imported and Exported

864Y-082

You can view a list of support for importing and exporting the machine's settings.

[Preferences](P. 398)
[Adjustment/Maintenance](P. 402)
[Function Settings](P. 403)
[Management Settings](P. 406)

NOTE

- See the following for information on how to import and export data.
  Importing and Exporting the Settings(P. 289)

[Preferences]

864Y-083

Support for importing and exporting the [Preferences] is as shown below.

✔: Can be imported or exported
—: Cannot be imported or exported

[Display Settings](P. 398)
[English Keyboard Layout](P. 398)
[Timer/Energy Settings](P. 399)
[Network](P. 399)
[External Interface](P. 401)
[Accessibility](P. 401)

[Display Settings]

Setting	Import and Export
[Default Screen After Startup/Restoration]	✔
[Home Screen Button Display Settings]	—
[Language]	✔
[Remote UI Language]	✔
[Millimeter/Inch Entry Switch]	✔
[Display Timing for Cart. Prep.]	✔
[Display Notif. to Clean Fixing Assembly]	✔
[Show Warnings]	✔
[Action When Warning]	✔
[Display IP Address]	✔

[English Keyboard Layout]

Setting	Import and Export
[English Keyboard Layout]	✔

[Timer/Energy Settings]

Setting	Import and Export
[Current Date/Time Settings]	—
[Date/Time Settings]	✓
[Date Format]	✓
[Time Format]	✓
[Auto Reset Time]	✓
[Function After Auto Reset]	✓
[Auto Shutdown Time]	✓
[Auto Sleep Time]	✓
[Auto Sleep Daily Timer]	✓
[Time Set. for Auto Adjust Grad.]	✓
[Sleep Mode Exit Time Settings]	✓

[Network]

Setting		Import and Export
[Select Wired/Wireless LAN]		✓
[Wireless LAN Settings]	[Manually Enter Network Name (SSID)]	✓
	[WPS Push Button Mode]	—
	[WPS PIN Code Mode]	—
	[Power Save Mode]	✓
	[Connection Information]	—
[Direct Connection Settings]		✓

Setting		Import and Export
[Easy Connection via PC]		—
[TCP/IP Settings]	[IPv4 Settings]	✓ *1
	[IPv6 Settings]	✓
	[DNS Settings]	✓
	[WINS Settings]	✓
	[LPD Settings]	✓
	[RAW Settings]	✓
	[WSD Settings]	✓
	[IPP Print Settings]	✓
	[Use HTTP]	✓
	[Use IPSec]	—
	[Port Number Settings]	✓
	[MTU Size]	✓
[SNMP Settings]		✓
[Use Dedicated Port]		✓
[Dedicated Port Auth. Method]		✓
[Wait Time for Conn. at Startup]		✓
[Ethernet Driver Settings]		✓
[Use IEEE 802.1X]		—
[Firewall Settings]		✓
[Device Settings Management]		✓
[RMT-SW]		✓
[Initialize Network Settings]		—

*1 The [PING Command] is " — ."

[External Interface]

Setting	Import and Export
[USB Settings]	✓

[Accessibility]

Setting	Import and Export
[Invert Screen Colors]	✓
[Brightness]	✓
[Message Display Time]	✓

[Adjustment/Maintenance]

864Y-084

Support for importing and exporting the [Adjustment/Maintenance] is as shown below.

✔: Can be imported or exported
—: Cannot be imported or exported

[Adjust Image Quality](P. 402)
[Maintenance](P. 402)

[Adjust Image Quality]

Setting	Import and Export
[Auto Adjust Gradation]	—
[Auto Correction Settings]	✔
[Correct Print Color Mismatch]	—
[Adjust Print Position]	✔
[Special Processing]	✔

[Maintenance]

Setting	Import and Export
[Clean Fixing Assembly]	—
[Clean ITB]	—
[Control Condensation]	✔

[Function Settings]

864Y-085

Support for importing and exporting the [Function Settings] is as shown below.

✔: Can be imported or exported
—: Cannot be imported or exported

[Common](P. 403)
[Printer](P. 403)
[Receive](P. 404)
[Access Files](P. 404)
[Secure Print](P. 405)

[Common]

Setting	Import and Export
[Paper Feed Settings]	✔
[Print Settings]	✔

[Printer]

Setting		Import and Export
[Printer Settings]	[Action When Free Paper Size Mismatch]	✔
	[Copies]	✔
	[2-Sided Printing]	✔
	[Default Paper]	✔
	[Paper Size Override]	✔
	[Print Quality]	✔
	[Layout]	✔
	[Auto Skip Error]	✔
	[Timeout]	✔
	[Personality]	✔

Setting		Import and Export
	[Color Mode]	✓
	[Compressed Image Output]	✓
	[Prioritize MP Tray]	✓
	[UFR II]	✓
	[PCL]	✓
	[PS]	✓
	[Imaging Settings]	✓
	[PDF]	✓ *1
	[XPS]	✓
[PDL Selection (Plug and Play)]	[Network]	—
	[USB]	✓

*1 The following items are " — ."

- [RGB Source Profile]
- [CMYK Simulation Profile]
- [Use Grayscale Profile]
- [Output Profile]

[Receive]

Setting	Import and Export
[Common Settings]	✓
[E-Mail Settings]	✓

[Access Files]

Setting	Import and Export
[Common Settings]	✓

Setting	Import and Export
[Memory Media Settings]	✓
[Screen When Mem. Med. Conn]	✓

[Secure Print]

Setting	Import and Export
[Secure Print]	✓

[Management Settings]

864Y-086

Support for importing and exporting the [Management Settings] is as shown below.

✔: Can be imported or exported
—: Cannot be imported or exported

[User Management](P. 406)
[Device Management](P. 406)
[Remote UI Settings/Update Firmware](P. 407)
[Data Management](P. 407)
[Security Settings](P. 407)
[Initialize All Data/Settings](P. 407)

[User Management]

Setting	Import and Export
[System Manager Information Settings]	✔
[Department ID Management]	✔ *1

*1 The [Count Mngt.] is " — ."

[Device Management]

Setting	Import and Export
[Device Information Settings]	✔
[Select Country/Region]	—
[Display Job Log]	✔
[Notify to Check Paper Settings]	✔
[Canon Genuine Mode]	✔
[Displ. uniFLOW Online Setup Button]	✔

[Remote UI Settings/Update Firmware]

Setting	Import and Export
[Register License]	—
[Remote UI Settings]	—
[Update Firmware]	—

[Data Management]

Setting	Import and Export
[Import/Export]	—
[Enable Prod. Ext'd Survey Prog.]	✓
[Initialize Key and Certificate]	—
[Initialize Menu]	—

[Security Settings]

Setting	Import and Export
[Authentication/Password Settings]	✓
[Encryption Settings]	✓
[Verify System at Startup]	✓

[Initialize All Data/Settings]

Setting	Import and Export
[Initialize All Data/Settings]	—

Maintenance

Maintenance 409
Cleaning the Machine 411
Cleaning the Surface of the Machine 412
Cleaning the Fixing Assembly 413
Cleaning the Transfer Belt 414
Replacing Consumables 415
Replacing the Toner Cartridges 416
Checking the Remaining Amount of Consumables 420
List of Consumables 421
Adjusting the Print Quality and Position 423
Calibrating the Gradation 424
Correcting Color Mismatch 425
Adjusting the Print Position 426

Maintenance

864Y-087

To ensure safe and convenient use of the machine, daily maintenance that includes cleaning and replacement of consumables is required.
If you notice a deterioration in the print quality or frequent paper jams, perform cleaning and adjustment to improve it.

Performing Maintenance Operations

In addition to performing regular maintenance, operations are required according to the machine status and print quality.

Cleaning

Regularly clean the various parts of the machine. If the paper becomes dirty, or the print quality has deteriorated, clean the parts causing the problem according to the symptoms.
Cleaning the Machine(P. 411)

Replacing Consumables

If a message about consumables appears on the screen of the operation panel or Remote UI, or the print quality deteriorates, replace the consumables.
Replacing Consumables(P. 415)

Adjusting the Print Quality and Position

If the printed color is not reproduced properly, the image position is shifted, or the print results are otherwise not as expected, adjust the print quality and position according to the symptoms that occur.
Adjusting the Print Quality and Position(P. 423)

IMPORTANT

Maintenance and Inspections

- The minimum holding period for performance parts for repairs and toner cartridges is seven (7) years after production of the machine model is discontinued.
- If a problem occurs during operation, see the following:
  Troubleshooting(P. 430)

  If the problem still cannot be resolved or you think the machine needs to be checked, contact your dealer or service representative. **If the Problem Persists(P. 507)**

Installation

- If you find the machine's operation to be noisy in some operating modes or due to your surroundings, we recommend setting up the machine in a separate location from your office.
- Water droplets (condensation) may form inside the machine if the room where the machine is installed is heated rapidly, or if the machine is moved from a cool, dry location to a warm, humid location. Using the machine under these conditions may result in problems such as paper jams, poor print quality, or faults. Let the machine adjust to the ambient temperature and humidity for at least two hours before use.
- Machines with storage devices such as hard disks may not operate properly when used at high altitudes (3,000 meters above sea level or higher).

■ See Also

Checking the Required Troubleshooting Solutions from the Symptoms

You can check the required maintenance operations and settings according to the status of the machine and the error description.
Paper Jams(P. 431)
Problems with Printing Results(P. 440)
Paper and Paper Feeding Problems(P. 459)

Viewing the Number of Printed Pages and Machine Usage

As a guide to when to perform maintenance, you can view the number of printed pages using the counter and view the usage of the machine from reports and lists.
Monitoring the Usage(P. 284)

Cleaning the Machine

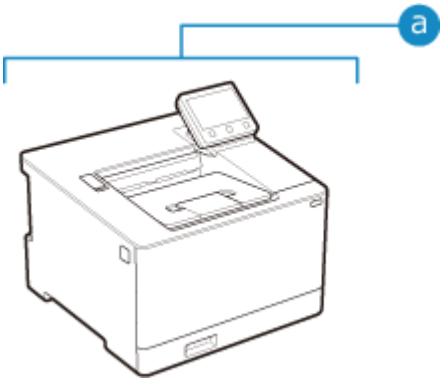
864Y-088

To ensure efficient use of the machine, regularly clean the various parts and keep them clean.
If the paper becomes dirty, or the print quality has deteriorated, clean the parts causing the problem according to the symptoms.

Parts to Clean on a Regular Basis

Clean the surface (a) frequently.

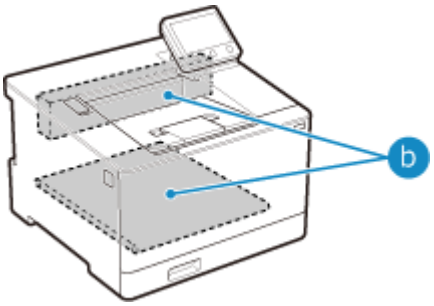
Cleaning the Surface of the Machine(P. 412)



Parts to Clean When Symptoms Occur

If the paper becomes dirty or print quality has deteriorated, clean the fixing assembly and transfer belt (b) inside the machine.

Cleaning the Fixing Assembly(P. 413)
Cleaning the Transfer Belt(P. 414)



Cleaning the Surface of the Machine

864Y-089

Regularly clean the surface of the machine to keep it clean. In addition, remove dust from the ventilation holes to ensure efficient ventilation and cooling of the inside of the machine.

1 Turn OFF the power and remove the power cord from the outlet. Turning OFF the Machine(P. 87)

Turning OFF the machine deletes any data waiting to be printed.

2 Wipe the surface of the machine and the ventilation slots.



- Wipe with a soft cloth soaked in water or diluted neutral detergent and wrung out.
- For the location of the ventilation slots, see the part names on the front of the machine. **Front Side(P. 13)**

3 Allow the parts to fully dry.

4 Plug the power cord into the outlet, and turn ON the machine. Turning ON the Machine(P. 86)

Cleaning the Fixing Assembly

864Y-08A

If the printout is smudged, the fixing assembly may be dirty. In this case, you can clean the fixing assembly using paper.
The fixing assembly cannot be cleaned when data is waiting to be printed or a toner cartridge has reached the end of its lifetime.

Required Preparations

- Check that there is enough amount of toner remaining in the toner cartridges. **Checking the Remaining Amount of Consumables(P. 420)**

1 On the operation panel, press [Menu] in the [Home] screen. [Home] Screen(P. 97)

2 Press [Adjustment/Maintenance] ▶ [Maintenance] ▶ [Clean Fixing Assembly].

➡ The available paper sizes and types are displayed on the confirmation screen.

3 Check that available paper is loaded, and then press [OK] ▶ [Start].

➡ The paper is fed to the machine, and cleaning starts.
When cleaning is completed, a sheet of paper with a printed image (pattern) is output.

Cleaning the Transfer Belt

864Y-08C

If the printout is smudged, the transfer belt (ITB) inside the machine may be dirty. Clean the transfer belt using the procedure below.
The transfer belt cannot be cleaned when data is waiting to be printed.

1 On the operation panel, press [Menu] in the [Home] screen. [Home] Screen(P. 97)

2 Press [Adjustment/Maintenance] ▶ [Maintenance] ▶ [Clean ITB].

➡ The [Clean ITB] screen is displayed.

3 Press [Start].

➡ Cleaning is performed.
When cleaning is completed, the message [Finished.] appears, and then the [Maintenance] screen is displayed.

Replacing Consumables

864Y-08E

If a message about consumables appears on the screen of the operation panel or Remote UI, or the print quality deteriorates, replace the consumables.
You can view the current remaining amount of consumables on the operation panel and Remote UI. For the consumable item names and number of sheets that can be printed, see the list of consumables.

Replacing the Toner Cartridges(P. 416)
Checking the Remaining Amount of Consumables(P. 420)
List of Consumables(P. 421)

Replacing the Toner Cartridges

864Y-08F

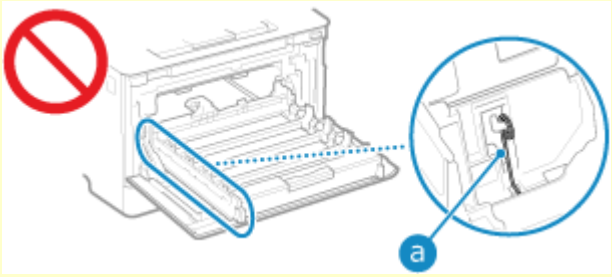
Replace the toner cartridges at the appropriate time according to messages that appear and a change in print quality.

Before replacing the toner cartridges, check the precautions in Important Safety Instructions. **Manuals of the Machine(P. 510)**

When to Replace the Toner Cartridges(P. 417)
Replacing Toner Cartridges(P. 417)

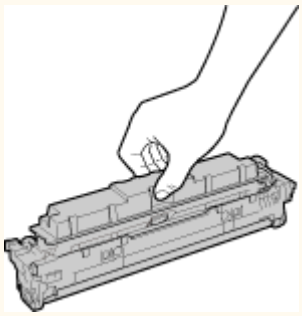
CAUTION

- Do not touch the contacts (a) inside the machine. Doing so may result in a fault.

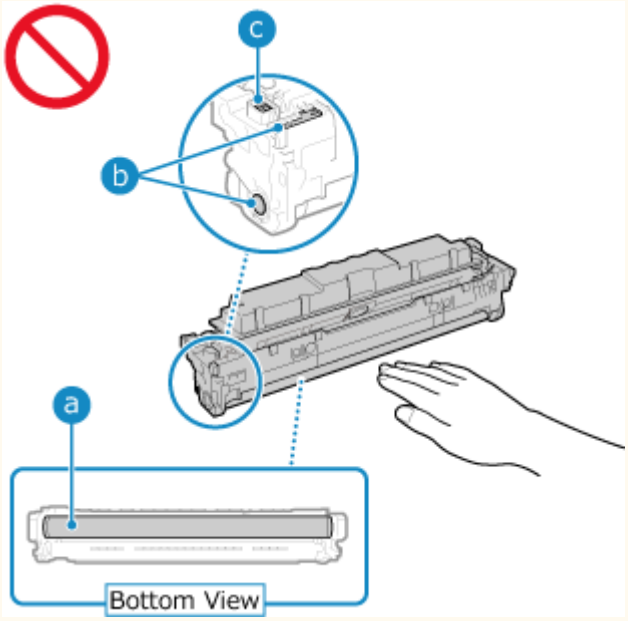


IMPORTANT

- Be sure to hold the toner cartridge using the handle.



- Do not scratch the drum surface (a) or expose it to light. Also, do not touch the electrical contacts (b) or the toner cartridge memory (c).



When to Replace the Toner Cartridges

When a Message Appears on the Screen of the Operation Panel or Remote UI

Follow the message on the screen to prepare a new toner cartridge and replace the old one. Print quality may suffer if you continue using the toner cartridges without replacing them.
For details about the message and how to resolve it, see the following:
A Message Appears(P. 487)

When Print Quality Deteriorates

If printouts show any of the symptoms below, the toner cartridges are near the end of their lifetime. It is recommended to replace the toner cartridges even if a message does not appear.

Streaks appear



Printing is uneven



Toner smudges and splatters appear



White spots appear



Partially faded

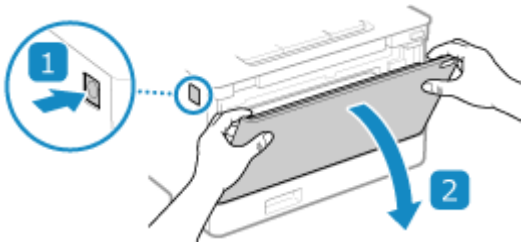


Colors or stains appear on printouts

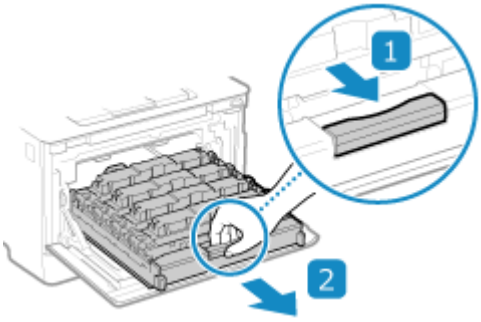


Replacing Toner Cartridges

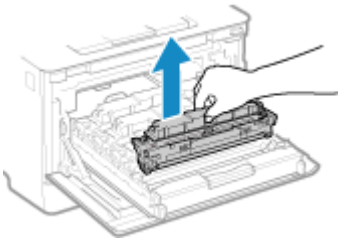
1 Open the front cover.



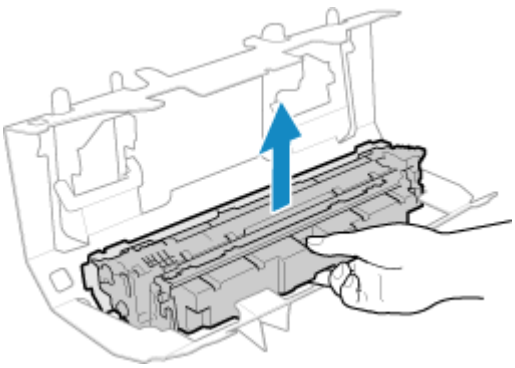
2 **Pull out the toner cartridge tray.**



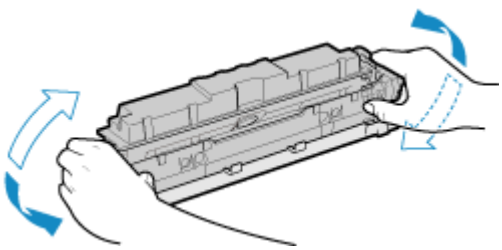
3 **Pull the toner cartridge to be replaced straight up and out of the machine.**



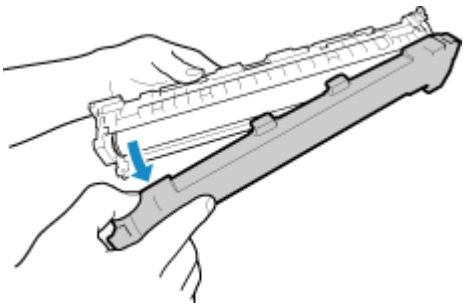
4 **Remove the toner cartridge from the packing material.**



5 **Shake the toner cartridge five or six times to evenly distribute the toner inside the cartridge.**

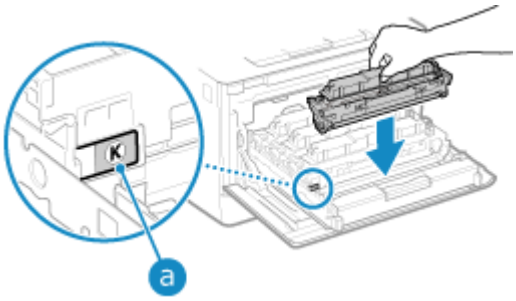


6 Remove the protective cover of the toner cartridge.



Be careful not to touch the drum surface on the bottom of the toner cartridge.

7 Install the toner cartridge.



- Install the toner cartridge into the slot with the same colored label (a).
- The bottom of the toner cartridge is unprotected. Be careful not to bump the bottom of the toner cartridge against the slot frame or other parts when installing.

8 Push in the toner cartridge tray, and close the front cover.

➠ When you close the front cover, a gradation adjustment is performed automatically.

Checking the Remaining Amount of Consumables

864Y-08H

You can view the percentage of the current remaining amount of toner in the toner cartridges in increments of 10%. Check the remaining amount of toner in the toner cartridges, for example, to see if you need to prepare a new toner cartridge before printing a large volume document.
* The displayed value for the remaining amount of toner in the toner cartridges is for reference and may not indicate the actual amount remaining.

This section describes how to view this information using the operation panel.
You can also check this information using Remote UI from a computer. **Managing the Machine from a Computer (Remote UI)(P. 276)**

1 On the operation panel, press [Status Monitor] in the [Home] screen or other location. **[Home] Screen(P. 97)**

2 Press [Device Information] ▶ [Cartridge Information].

➡ The remaining amount of toner in the toner cartridges is displayed by the color.

3 Check the remaining amount of toner in the toner cartridges.

NOTE

- You can configure the settings to notify you to prepare a new toner cartridge when the current toner cartridge reaches a specified amount. **[Display Timing for Cart. Prep.](P. 304)**

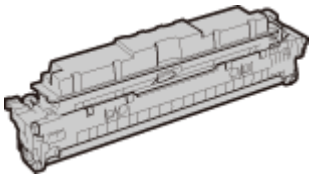
List of Consumables

864Y-08J

The item names of the machine consumables and number of sheets that can be printed are shown below.
In addition, precautions must be taken when handling and storing consumables. See also "Important Safety Instructions." **Manuals of the Machine(P. 510)**

For optimum print quality, using Canon genuine Toner, Cartridge and Parts is recommended.

■ Toner Cartridges



Replacement Toner Cartridges

The Canon genuine toner cartridges for replacement and average number of sheets that can be printed[*1] are shown below.

For optimum print quality, using Canon genuine toner cartridges is recommended.

[*1] The average yield is based on "ISO/IEC 19798" (the global standard related to "Method for the determination of toner cartridge yield for colour printers and multi-function devices that contain printer components" issued by International Organization for Standardization (ISO)) when printing A4 size plain paper with the default print density setting.

Canon Toner T12

Black
7,400 sheets

Y (Yellow), M (Magenta), and C (Cyan)
5,300 sheets

CAUTION

Store toner cartridges as described below. Storing toner cartridges in an improper location or environment may cause problems such as data loss.

- Store unopened until immediately prior to use.
- Do not store toner cartridges upright or upside down.
- Do not store toner cartridges in the following locations:
  - Locations exposed to open flames
  - Locations exposed to direct sunlight or bright light for five minutes or more
  - Locations exposed to excessively salty air
  - Locations heavily exposed to corrosive gases (e.g. aerosol sprays or ammonia)
  - Very hot and/or humid locations
  - Locations subject to dramatic changes in temperature and humidity likely to cause condensation
  - Very dusty locations

CAUTION

- Locations within the reach of children
- Locations close to products affected by magnetism (e.g. floppy disks or disk drives)

- Store the packaging material safely for future use. It will be needed for situations such as storing the machine with the toner cartridges removed.
- Canon reserves the right to reposition, reshape, add, or remove packaging material without notice.
- Store toner cartridges in the following conditions:
  - Storage temperature range: 0 - 35 °C
  - Storage humidity range: 35% to 85% RH (relative humidity, condensation-free)*1

*1 Even within the approved storage humidity range, water droplets (condensation) may develop inside the toner cartridge if the temperatures inside and outside the toner cartridge differ. Condensation will adversely affect the print quality.

IMPORTANT

Be careful of counterfeit toners

- Please be aware that there are counterfeit Canon toners in the marketplace. Use of counterfeit toner may result in poor print quality or machine performance. Canon is not responsible for any malfunction, accident or damage caused by the use of counterfeit toner.
  For more information, see **https://global.canon/ctc/** .

NOTE

- The toner cartridges may need to be replaced before reaching the average number of sheets that can be printed depending on the installation environment, paper size to be printed, and original type.
- Automatic calibration may be performed in response to changes in the environment to maintain image quality. Automatic calibration may also be performed when the power is turned ON and when recovering from sleep mode. Performing calibration uses the toner cartridges, which may affect their lifetime.
- The lifetime of color toner cartridges may also be affected by black and white printing. When you print large volumes in black and white, the number of sheets that can be printed for each color toner cartridge may be reduced.
- Shortening the automatic shutdown time from the default setting (4 hours), may reduce the lifetime of the toner cartridges.

Adjusting the Print Quality and Position

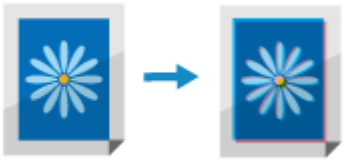
864Y-08K

If the printed color is not reproduced properly, the image position is shifted, or the print results are otherwise not as expected, adjust the print quality and position according to the symptoms that occur.

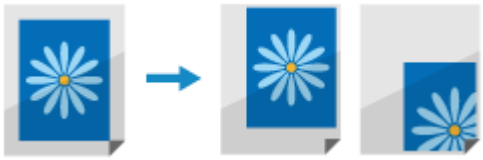
Gradation is not reproduced. **Calibrating the Gradation(P. 424)**



Printed image is blurry. **Correcting Color Mismatch(P. 425)**



Printed position is closer to one side or sticking out. **Adjusting the Print Position(P. 426)**

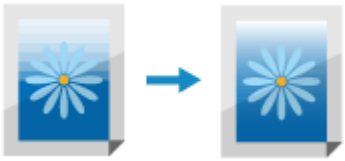


Calibrating the Gradation

864Y-08L

Gradation is the gradual changing of the color depth and brightness. If the gradation is not reproduced correctly and the printed data greatly differs from the source data or original, calibrate the gradation (calibration).
Gradation calibration is performed automatically according to usage of the machine and changes in the environment, but it can also be calibrated manually, as needed.

Use the operation panel to calibrate the gradation. You cannot perform the operation using Remote UI from a computer.
You cannot perform calibration while printing or when a toner cartridge has reached the end of its lifetime.



IMPORTANT

- The toner cartridges are used during calibration.
  - Performing frequent calibration affects the lifetime of the toner cartridges, regardless of whether it is automatic or manual calibration.
  - If the color balance of the printed document differs from the source data or original after calibration is performed, the remaining amount of toner in the toner cartridges may be low. It is recommended to check the remaining amount of toner in the toner cartridges, and replace any toner cartridges, as needed.
    Checking the Remaining Amount of Consumables(P. 420)
    Replacing Toner Cartridges(P. 417)

NOTE

- When performing gradation calibration regularly, you can set the priority to the toner cartridge lifetime or the calibration effect. **[Adjust Image According To](P. 329)**

1 **On the operation panel, press [Menu] in the [Home] screen.** **[Home] Screen(P. 97)**

2 **Press [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Auto Adjust Gradation] ▶ [Quick Adjust].**

➡ The [Quick Adjust] screen is displayed.

3 **Press [Start].**

➡ Calibration is performed.

NOTE

- You can configure the settings to regularly perform Quick Adjust automatically. **[Auto Adjust Image Regularly](P. 329)**

Correcting Color Mismatch

864Y-08R

Color mismatch refers to a slight shift in the print positions of colors. When color mismatch occurs, printed images appear blurry. If this occurs, correct the color mismatch by performing calibration.
Color mismatch calibration is performed automatically according to usage of the machine and changes in the environment, but it can also be calibrated manually, as needed.



Use the operation panel to perform calibration. You cannot perform calibration using Remote UI from a computer.

IMPORTANT

- The toner cartridges are used during calibration.
  - Performing frequent calibration affects the lifetime of the toner cartridges, regardless of whether it is automatic or manual calibration.
  - If the color balance of the printed document differs from the source data or original after calibration is performed, the remaining amount of toner in the toner cartridges may be low. It is recommended to check the remaining amount of toner in the toner cartridges, and replace any toner cartridges, as needed.
    Checking the Remaining Amount of Consumables(P. 420)
    Replacing Toner Cartridges(P. 417)

1 On the operation panel, press [Menu] in the [Home] screen. [Home] Screen(P. 97)

2 Press [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Correct Print Color Mismatch].

➡ The [Correct Print Color Mismatch] screen is displayed.

3 Press [Start].

➡ Calibration is performed.
When calibration is completed, the message [Finished.] appears, and then the [Adjust Image Quality] screen is displayed.

NOTE

- Color mismatch calibration is automatically performed when the machine is started. You can configure when at startup to perform calibration. **[Correct Print Color Mismatch](P. 329)**

Adjusting the Print Position

864Y-08S

If text or images are printed off-center or outside of the printable range, you can adjust the print position to improve printing results.
You can specify the adjustment direction and width for each paper source and print side (front and back side).



Use the operation panel to perform adjustment. You cannot perform adjustment using Remote UI from a computer.

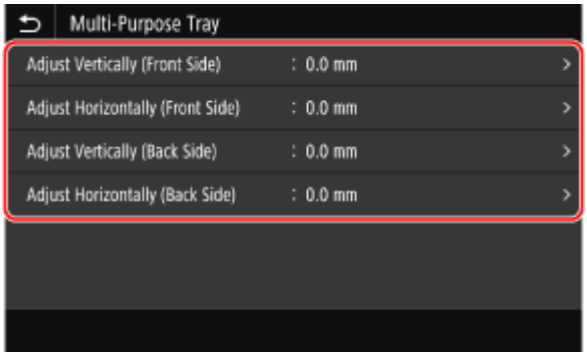
1 **On the operation panel, press [Menu] in the [Home] screen.** [Home] Screen(P. 97)

2 **Press [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Adjust Print Position].**

➠ The [Adjust Print Position] screen is displayed.

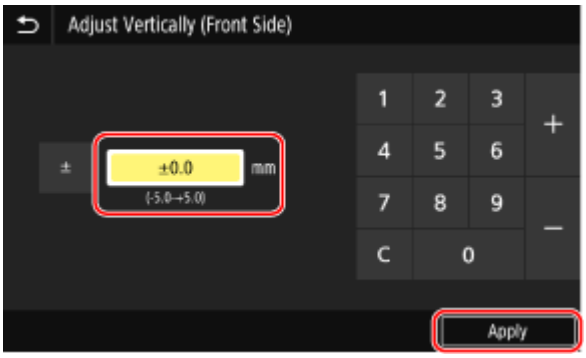
3 **Select the paper source for which you want to adjust the print position.**

4 **Select a combination of the adjustment direction and print side.**



Example: When adjusting the print position of the front side of the paper in the vertical direction
Select [Adjust Vertically (Front Side)].

5 **Enter the adjustment value, and press [Apply].**



Specify the adjustment direction using + and -, and specify the adjustment width in units of 0.1 mm.

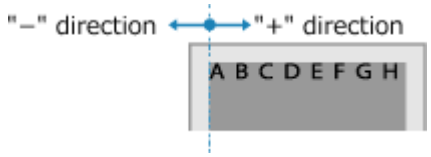
■When Adjusting Vertically

Specify the adjustment width by selecting a positive value to adjust down on the paper or a negative value to adjust up on the paper.



■When Adjusting Horizontally

Specify the adjustment width by selecting a positive value to adjust to the right on the paper or a negative value to adjust to the left on the paper.



Troubleshooting

Troubleshooting 430
Paper Jams 431
Paper Jams in the Output Tray and Rear Side 433
Paper Jams in a Paper Source 435
Paper Jams That Occur Repeatedly 438
Problems with Printing Results 440
Toner Smudges and Splatters Appear 442
Streaks Appear 443
Printing Is Uneven 445
Printed Paper Is Blank 447
Smudge Marks Appear on the Edge of Printouts 448
Text or Images Are Blurry 449
Printouts Have Ghost Images 450
Printouts Are Faded 451
The Edge of the Page Is Not Printed 453
Colors or Stains Appear on the Background of Printouts 454
White Spots Appear 455
Smudge Marks Appear on the Back Side of Printouts 457
Printouts Are Skewed 458
Paper and Paper Feeding Problems 459
Paper Creases 460
Paper Curls 461
Paper Is Not Fed or Two or More Sheets Are Fed Together 462
Paper Drawer Does Not Fit in the Machine 463
Setting Up 464
The Machine Connected via WSD Port Is Not Displayed During Driver Installation 465
Cannot Connect to Wireless LAN 466
Network 467
Cannot Switch to Wireless LAN 468
Cannot Find the Print Server to Connect to 469
Cannot Connect to a Shared Printer 470
Cannot Find the IP Address of the Machine 471
AirPrint Does Not Work 472
Printing 473

Cannot Print 474
Cannot Print (Wireless LAN) 475
Cannot Print (Wired LAN) 477
Cannot Print (USB Connection) 478
Cannot Print (via Print Server) 479
Printing Is Slow 480
Management Functions and Environment Settings 481
Cannot Access Remote UI 482
Changing the Volume of the Confirmation Sound and Warning Tone 483
Changing the Time Until Sleep Mode 484
Lost Department ID or PIN for the Administrator 485
Checking the Items That Can Be Configured on the Machine and Their Settings 486
A Message Appears 487
An Error Code Is Displayed 502
If the Problem Persists 507

Troubleshooting

864Y-08U

This chapter describes how to troubleshoot problems and answers frequently asked questions.
Select an item to check from the contents or the list below.
You can click [ ] at the top of the screen to search for the message or error code (three-digit number starting with #) that appears on the operation panel, and check how to troubleshoot problems.

■ Frequently Asked Questions

Lost Department ID or PIN for the Administrator(P. 485)
Cannot Print(P. 474)
[The memory is full.] Is Displayed on the Operation Panel, and the Operation Cannot Be Performed.(P. 500)

■ Frequently Asked Questions about Operations

I Want to Print on an Envelope.

Place the envelope in the paper drawer or multi-purpose tray while paying attention to the orientation and side of the envelope.
Then, set the paper size and type according to the placed envelope.
Next, use the print driver of the computer to set the paper size of the document and the paper size to print, and then perform printing.

Preparations and Orientation for Loading Envelopes(P. 120)
Specifying the Paper Size and Type(P. 124)
Printing from a Computer(P. 163)

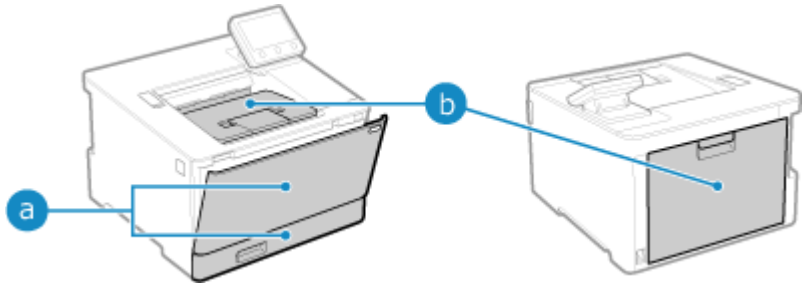
Paper Jams

864Y-08W

If paper jams in the machine, [Paper jammed.] appears on operation panel. Follow the displayed instructions on how to clear the paper jam.



For details about clearing paper jams from various parts of the machine, see below.



a Multi-purpose tray and paper drawer

Paper Jams in a Paper Source(P. 435)

b Output tray and rear side

Paper Jams in the Output Tray and Rear Side(P. 433)

CAUTION

Do not forcibly remove the jammed paper from the machine.

- Forcibly removing the paper may result in personal injury or damage parts of the machine. If you cannot remove the paper, contact your dealer or service representative. **If the Problem Persists(P. 507)**

When All Paper Jams Have Been Cleared

- Immediately remove your hands from the machine and optional equipment so that your clothing and hands do not get caught in the rollers.

IMPORTANT

When clearing paper jams, do not turn the power OFF.

- Data being printed is erased when you turn the power OFF.

When the Paper Gets Torn

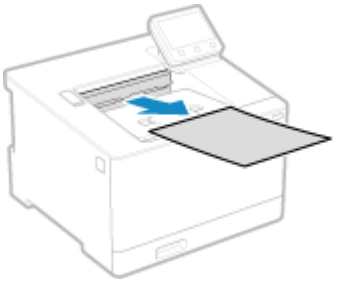
- Be sure to remove it so that no pieces remain.

Paper Jams in the Output Tray and Rear Side

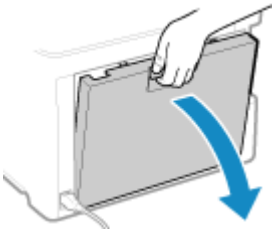
864Y-08X

Use the procedure below to check the output tray and rear side, and to remove any jammed paper. If the paper tears, be sure to remove the parts so that no pieces remain.

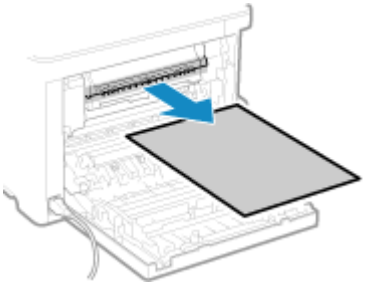
1 **Gently pull the paper out of the output tray.**



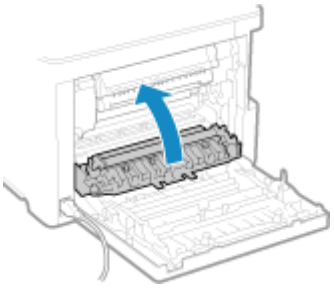
2 **Open the rear cover.**



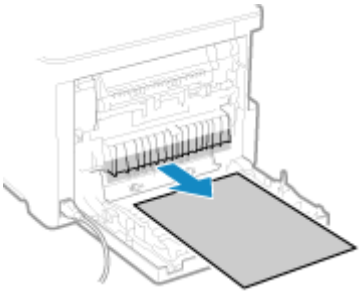
3 **Gently pull out the paper.**



4 **Lift the 2-sided unit.**



5 **Gently pull out the paper.**



6 Close the rear cover.

➠ The message [Paper jammed.] disappears, and printing resumes automatically.
If printing does not resume automatically, try printing again.

NOTE

If Paper Jams Occur Repeatedly

- Check the status of the machine and paper. **Paper Jams That Occur Repeatedly(P. 438)**

Paper Jams in a Paper Source

864Y-08Y

Remove the jammed paper from the location where it occurred. If the paper tears, be sure to remove the parts so that no pieces remain.

Paper Jams in the Multi-purpose Tray(P. 435)
Paper Jams in the Paper Drawer(P. 437)

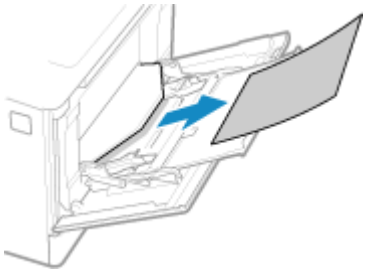
Paper Jams in the Multi-purpose Tray

Remove the jammed paper from the multi-purpose tray or inside the machine.
If you cannot remove the paper, do not try to remove it forcibly. Check the operation panel, and remove the jammed paper from another location.

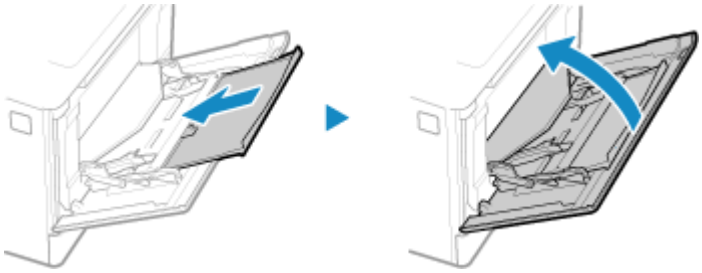
1 If there is other paper loaded in the multi-purpose tray, remove that paper.

2 Remove the paper jammed in the multi-purpose tray.

1 Gently pull out the paper.

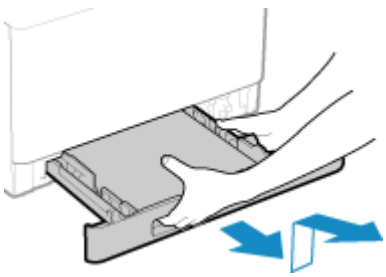


2 Close the multi-purpose tray.

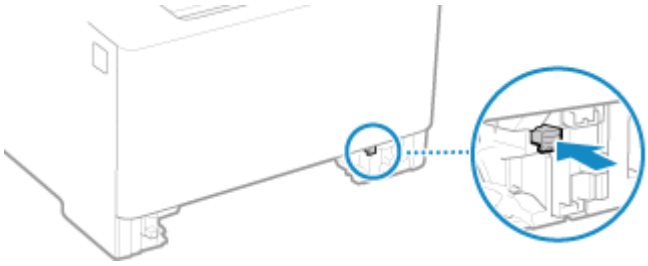


3 Remove the paper jammed inside the machine.

1 Pull out the paper drawer, and remove it while lifting the front side.

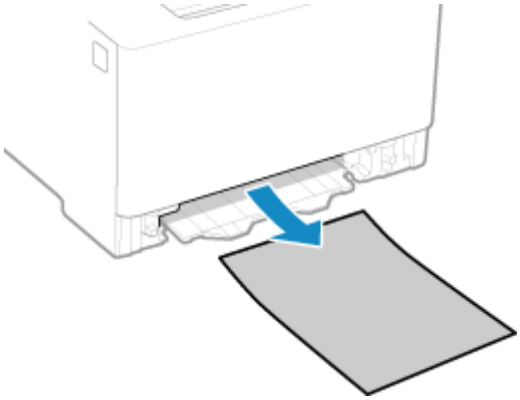


2 Press the green button.

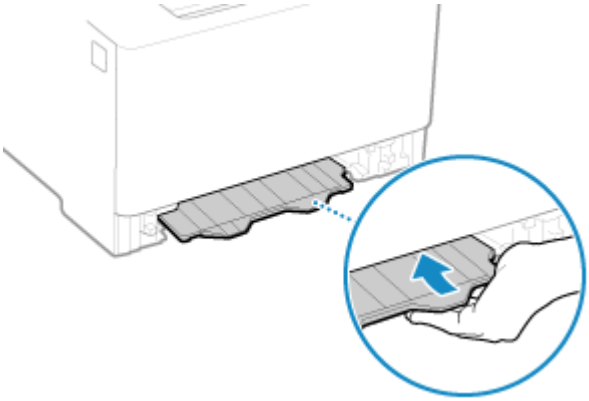


➡ The transport guide lowers.

3 Gently pull out the paper.



4 Push in the transport guide.



Push it in firmly until you hear a click.

5 Load the paper drawer into the machine.

6 Press [Next] on the operation panel. When [Is all of the jammed paper removed?] appears, press [Yes].

➡ The message [Paper jammed.] disappears, and printing resumes automatically.
If printing does not resume automatically, try printing again.

■If the Troubleshooting Method for the Output Tray Appears on the Screen

Remove the jammed paper from the output tray or rear side. **Paper Jams in the Output Tray and Rear Side(P. 433)**

NOTE

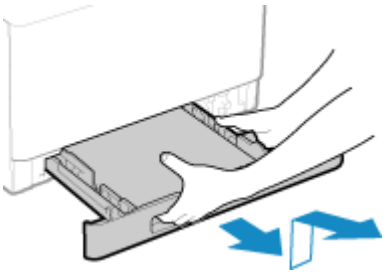
If Paper Jams Occur Repeatedly

- Check the status of the machine and paper. **Paper Jams That Occur Repeatedly(P. 438)**

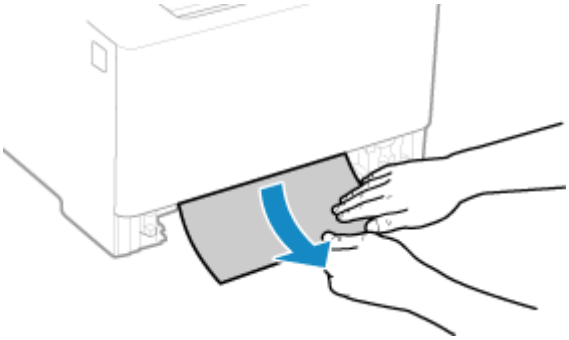
Paper Jams in the Paper Drawer

Remove the paper loaded in the paper drawer.
If you cannot remove the paper, do not try to remove it forcibly. Check the operation panel, and remove the jammed paper from another location.

1 Pull out the paper drawer, and remove it while lifting the front side.



2 Gently pull out the paper.



3 Load the paper drawer into the machine.

4 If the optional Paper Feeder PF-K is installed, remove the paper while following 1 to 3 above.

5 Press [Next] on the operation panel. When [Is all of the jammed paper removed?] appears, press [Yes].

➠ The message [Paper jammed.] disappears, and printing resumes automatically.
If printing does not resume automatically, try printing again.

NOTE

If Paper Jams Occur Repeatedly

- Check the status of the machine and paper. **Paper Jams That Occur Repeatedly(P. 438)**

Paper Jams That Occur Repeatedly

864Y-090

Troubleshoot by checking the items below.

Are There Paper Scraps or Foreign Objects Inside the Machine?

Remove any paper scraps or foreign objects. **Paper Jams(P. 431)**

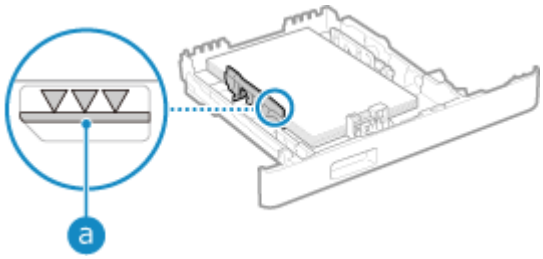
Are You Using Appropriate Paper?

Check whether the paper in the machine is usable, and replace it with appropriate paper, as needed.
Usable Paper(P. 21)
Loading Paper(P. 111)

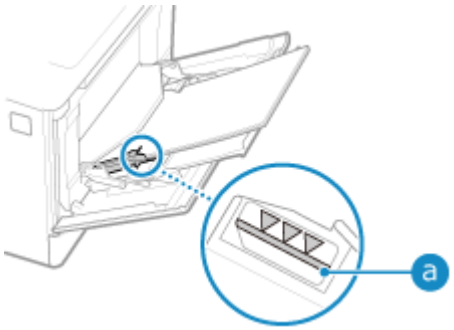
Is Paper Loaded Correctly?

- Fan the paper thoroughly in small batches so that it is not stuck together.
- Align the edges by tapping the paper on a flat surface a few times before loading the paper. **Loading Paper(P. 111)**
- Make sure the loaded paper does not exceed the load limit line (a).

Paper Drawer

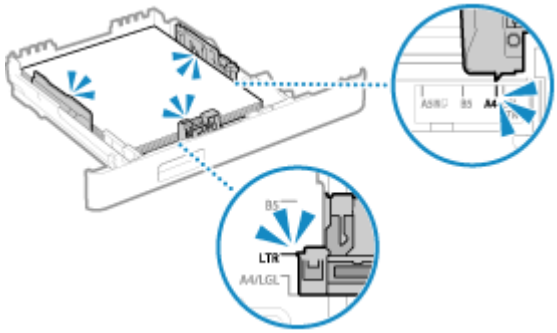


Multi-purpose Tray

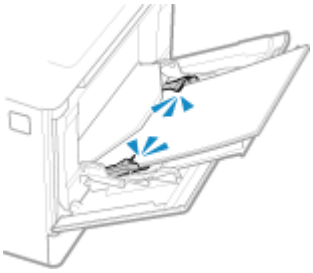


- Check that the paper guides are aligned with the markings and are not too loose or too tight.

Paper Drawer



Multi-purpose Tray



Do Paper Jams Occur When Printing on the Back Side of Printed Paper?

Flatten the edges of the paper to thoroughly remove any curls.

* When printing on the back side of printed paper, you can only use paper printed with this machine. Do not use paper printed with another printer or multifunction machine, as this can cause paper jams or damage the machine.

Does This Occur When Printing Continuously?

If so, setting [Correct Paper Conveyance] to [On] may reduce the frequency of paper jams.

On the [Home] screen of the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Correct Paper Conveyance] ▶ [On]

* When you select [On], the printing speed may decrease.

Do Paper Jams Occur When Printing on Paper in the Optional Paper Feeder PF-K?

Reinstall Paper Feeder PF-K. For details about installing Paper Feeder PF-K, see "Setup Guide." **Manuals of the Machine(P. 510)**

Problems with Printing Results

864Y-091

If printouts show any of the symptoms below, check how to troubleshoot the problem based on the symptom.



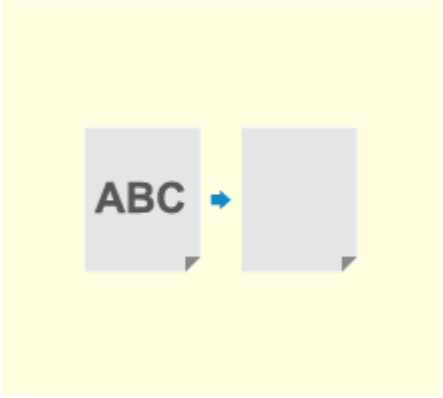
Toner Smudges and Splatters Appear(P. 442)



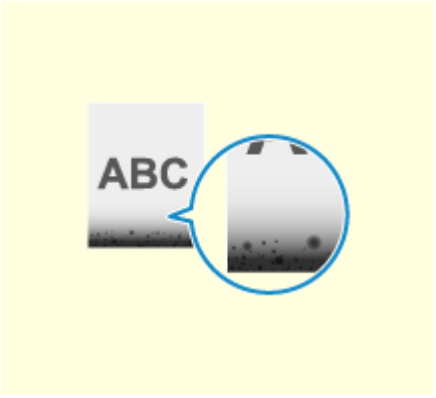
Streaks Appear(P. 443)



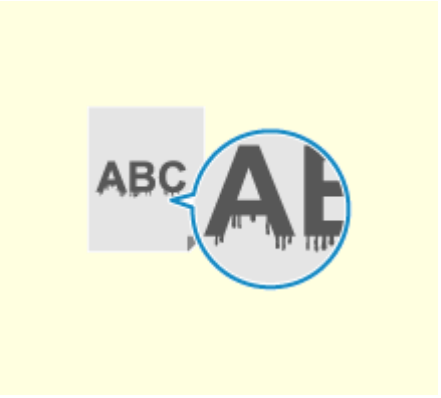
Printing Is Uneven(P. 445)



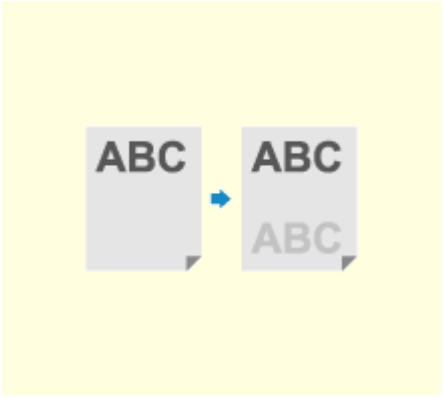
Printed Paper Is Blank(P. 447)



Smudge Marks Appear on the Edge of Printouts(P. 448)



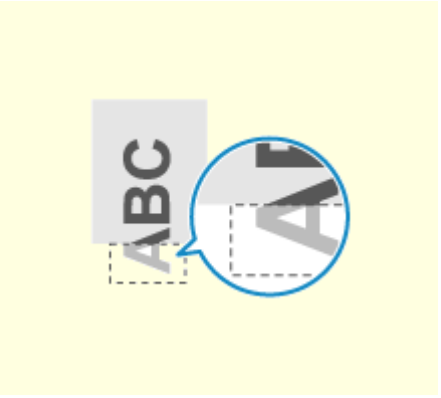
Text or Images Are Blurry(P. 449)



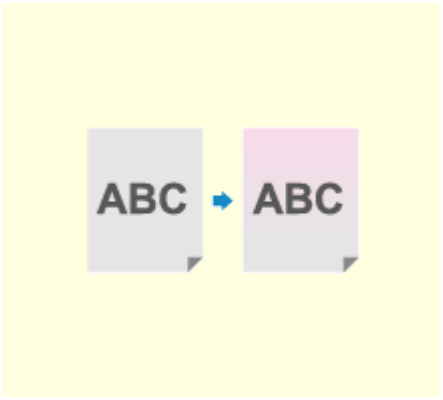
Printouts Have Ghost Images(P. 450)



Printouts Are Faded(P. 451)



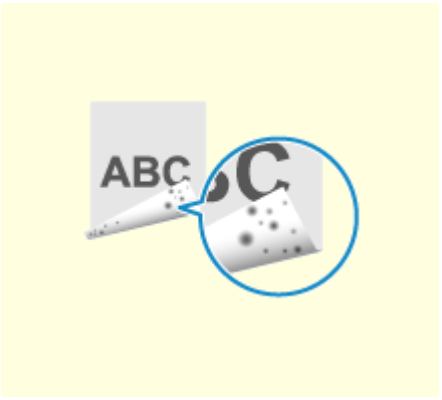
The Edge of the Page Is Not Printed(P. 453)



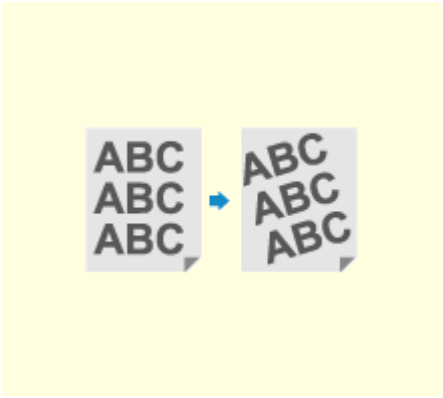
Colors or Stains Appear on the Background of Printouts(P. 454)



White Spots Appear(P. 455)



Smudge Marks Appear on the Back Side of Printouts(P. 457)



Printouts Are Skewed(P. 458)

Toner Smudges and Splatters Appear

864Y-092

Troubleshoot by checking in the following order:

Step 1: Checking the Paper(P. 442)
Step 2: Checking the Toner Cartridges(P. 442)
Step 3: Checking the Maintenance Status(P. 442)

Step 1: Checking the Paper

Are You Using Appropriate Paper?

Check whether the paper in the machine is usable, and replace it with appropriate paper, as needed.
Usable Paper(P. 21)
Loading Paper(P. 111)

Step 2: Checking the Toner Cartridges

Check the Remaining Amount of Toner in the Toner Cartridges.

Check the remaining amount of toner in the toner cartridges, and replace any toner cartridges, as needed.
Checking the Remaining Amount of Consumables(P. 420)
Replacing the Toner Cartridges(P. 416)

* Depending on the usage condition of the machine, the actual remaining amount of toner may be lower than indicated or the parts may be deteriorated. If the condition persists even after replacing the toner cartridge indicated to have a low amount of toner, it is recommended to replace the other toner cartridges as well.

Step 3: Checking the Maintenance Status

Have You Cleaned the Fixing Assembly?

These symptoms may occur when the fixing assembly is dirty. In this case, clean the fixing assembly. **Cleaning the Fixing Assembly(P. 413)**

Have You Cleaned the Transfer Belt?

These symptoms may occur when the transfer belt is dirty. In this case, clean the transfer belt. **Cleaning the Transfer Belt(P. 414)**

Streaks Appear

864Y-093

Troubleshoot by checking in the following order:

Step 1: Checking the Paper(P. 443)
Step 2: Checking the Toner Cartridges(P. 443)
Step 3: Checking the Usage Environment of the Machine(P. 443)
Step 4: Checking the Maintenance Status(P. 444)

Step 1: Checking the Paper

Are You Using Appropriate Paper?

Check whether the paper in the machine is usable, and replace it with appropriate paper, as needed.
Usable Paper(P. 21)
Loading Paper(P. 111)

Step 2: Checking the Toner Cartridges

Check the Remaining Amount of Toner in the Toner Cartridges.

Check the remaining amount of toner in the toner cartridges, and replace any toner cartridges, as needed.
Checking the Remaining Amount of Consumables(P. 420)
Replacing the Toner Cartridges(P. 416)

* Depending on the usage condition of the machine, the actual remaining amount of toner may be lower than indicated or the parts may be deteriorated. If the condition persists even after replacing the toner cartridge indicated to have a low amount of toner, it is recommended to replace the other toner cartridges as well.

Step 3: Checking the Usage Environment of the Machine

Are You Using the Machine in an Environment with Sudden Temperature Changes?

Sudden temperature changes can create condensation, which can result in faded or blurry images and text. Setting [Control Condensation] to [On] may solve the problem.

[Home] on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Maintenance] ▶ [Control Condensation] ▶ [On]

* During condensation removal, a blank sheet of paper may be output without being printed correctly. If you set this to [On], you can set whether to restrict printing.
* If you set this to [On], you must keep the machine ON to continuously remove the condensation. The Auto Shutdown Time setting is disabled.

Is the Machine Installed in a Location Subject to Strong Wind Such as from an Air Conditioner?

If so, adjust the air direction and volume of the air conditioner.
If that does not work, setting [Switch Paper Feed Method] to [Print Side Priority] may improve the problem.

[Home] on the operation panel ▶ [Menu] ▶ [Function Settings] ▶ [Common] ▶ [Paper Feed Settings] ▶ [Switch Paper Feed Method] ▶ [Print Side Priority]

* When you select [Print Side Priority], the printing speed for 1-Sided printing will decrease.

Step 4: Checking the Maintenance Status

Have You Cleaned the Fixing Assembly?

These symptoms may occur when the fixing assembly is dirty. In this case, clean the fixing assembly. **Cleaning the Fixing Assembly(P. 413)**

Have You Cleaned the Transfer Belt?

These symptoms may occur when the transfer belt is dirty. In this case, clean the transfer belt. **Cleaning the Transfer Belt(P. 414)**

Printing Is Uneven

864Y-0C8

Troubleshoot by checking in the following order:

Step 1: Checking the Paper(P. 445)
Step 2: Checking the Toner Cartridges(P. 445)
Step 3: Adjusting the Print Quality(P. 445)
Step 4: Checking the Usage Environment of the Machine(P. 446)
Step 5: Checking Whether Uneven Gloss Occur at the Edges of Printed Paper(P. 446)

Step 1: Checking the Paper

Are You Using Appropriate Paper?

Check whether the paper in the machine is usable, and replace it with appropriate paper, as needed.
Usable Paper(P. 21)
Loading Paper(P. 111)

Are You Using Rough Paper?

If so, setting [Correct Void for Rough Paper] to [On] may improve the problem.

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Correct Void for Rough Paper] ▶ [On]

* When you select [On], the print quality may be affected.

Step 2: Checking the Toner Cartridges

Check the Remaining Amount of Toner in the Toner Cartridges.

Check the remaining amount of toner in the toner cartridges, and replace any toner cartridges, as needed.
Checking the Remaining Amount of Consumables(P. 420)
Replacing the Toner Cartridges(P. 416)

* Depending on the usage condition of the machine, the actual remaining amount of toner may be lower than indicated or the parts may be deteriorated. If the condition persists even after replacing the toner cartridge indicated to have a low amount of toner, it is recommended to replace the other toner cartridges as well.

Step 3: Adjusting the Print Quality

Try Correcting Print Fading.

Setting [Prevent Print Fading/Misalign.] to [On] may improve the problem.

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Prevent Print Fading/Misalign.] ▶ [On]

* When you select [On], the printing speed may decrease.

Step 4: Checking the Usage Environment of the Machine

Are You Using the Machine in a Humid Environment?

Setting [High Humidity Mode] to [On] may solve the problem.

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [High Humidity Mode] ▶ [On]

* Setting this to [On] may blur images and text in an environment with low humidity.

Are You Using the Machine in an Environment with Sudden Temperature Changes?

Sudden temperature changes can create condensation, which can result in faded or blurry images and text. Setting [Control Condensation] to [On] may solve the problem.

[Home] on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Maintenance] ▶ [Control Condensation] ▶ [On]

* During condensation removal, a blank sheet of paper may be output without being printed correctly. If you set this to [On], you can set whether to restrict printing.
* If you set this to [On], you must keep the machine ON to continuously remove the condensation. The Auto Shutdown Time setting is disabled.

Is the Machine Installed in a Location Subject to Strong Wind Such as from an Air Conditioner?

If so, adjust the air direction and volume of the air conditioner.
If that does not work, setting [Switch Paper Feed Method] to [Print Side Priority] may improve the problem.

[Home] on the operation panel ▶ [Menu] ▶ [Function Settings] ▶ [Common] ▶ [Paper Feed Settings] ▶ [Switch Paper Feed Method] ▶ [Print Side Priority]

* When you select [Print Side Priority], the printing speed for 1-Sided printing will decrease.

Step 5: Checking Whether Uneven Gloss Occur at the Edges of Printed Paper

Does Uneven Gloss Occur at the Edges of Printed Paper?

Setting [Correct Uneven Gloss] to [On] may solve the problem.

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Correct Uneven Gloss] ▶ [On]

* When you select [On], the printouts may be faded.

Printed Paper Is Blank

864Y-094

Troubleshoot by checking the items below.

Is Condensation Removal Being Performed?

Check the operation panel, and wait for condensation removal to finish.

Smudge Marks Appear on the Edge of Printouts

864Y-095

Troubleshoot by checking in the following order:

Are You Using Appropriate Paper?

- Check whether the paper in the machine is usable, and replace it with appropriate paper, as needed.
  Usable Paper(P. 21)
  Loading Paper(P. 111)

Are You Printing to the Edge of the Paper Without Margins?

This symptom may occur when the margin is set to none in the printer driver. To print with this machine, a margin of 5 mm (10 mm at the top and bottom of an envelope) is required.

On the [Printing preferences] screen of the printer driver, configure the following setting to provide a margin.

[Finishing] tab ▶ [Advanced Settings] ▶ [Expand Print Region and Print] ▶ [Off]

Have You Cleaned the Fixing Assembly?

These symptoms may occur when the fixing assembly is dirty. In this case, clean the fixing assembly. **Cleaning the Fixing Assembly(P. 413)**

Have You Cleaned the Transfer Belt?

These symptoms may occur when the transfer belt is dirty. In this case, clean the transfer belt. **Cleaning the Transfer Belt(P. 414)**

Text or Images Are Blurry

864Y-096

Troubleshoot by checking the following steps:

Step 1: Checking the Paper(P. 449)
Step 2: Checking the Usage Environment of the Machine(P. 449)

Step 1: Checking the Paper

Are You Using Appropriate Paper?

Check whether the paper in the machine is usable, and replace it with appropriate paper, as needed.
Usable Paper(P. 21)
Loading Paper(P. 111)

Step 2: Checking the Usage Environment of the Machine

Are You Using the Machine in an Environment with Sudden Temperature Changes?

Sudden temperature changes can create condensation, which can result in faded or blurry images and text. Setting [Control Condensation] to [On] may solve the problem.

[Home] on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Maintenance] ▶ [Control Condensation] ▶ [On]

* During condensation removal, a blank sheet of paper may be output without being printed correctly. If you set this to [On], you can set whether to restrict printing.
* If you set this to [On], you must keep the machine ON to continuously remove the condensation. The automatic shutdown setting is disabled.

Are You Using the Machine in an Environment with Low Humidity?

Setting [Low Humidity Mode] to [On] may solve the problem.

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Low Humidity Mode] ▶ [On]

* Setting this to [On] may reduce the density or create fading in a humid environment.

Are You Using the Machine in a Humid Environment?

Setting [High Humidity Mode] to [On] may solve the problem.

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [High Humidity Mode] ▶ [On]

* Setting this to [On] may blur images and text in an environment with low humidity.

Printouts Have Ghost Images

864Y-097

Troubleshoot by checking the following steps:

Step 1: Checking the Paper and Toner Cartridges(P. 450)
Step 2: Checking the Occurrence of Ghost Images(P. 450)
Step 3: Checking the Maintenance Status of the Machine(P. 450)
Step 4: Checking the Special Processing Setting(P. 450)

Step 1: Checking the Paper and Toner Cartridges

Are You Using Appropriate Paper?

Check whether the paper in the machine is usable, and replace it with appropriate paper, as needed.
Usable Paper(P. 21)
Loading Paper(P. 111)

Have the Toner Cartridges Reached the End of Their Lifetime?

Parts inside the toner cartridges may have deteriorated. If this symptom occurs, it is recommended to replace the toner cartridges regardless of the remaining amount of toner or messages displayed. **Replacing the Toner Cartridges(P. 416)**

Step 2: Checking the Occurrence of Ghost Images

Do Ghost Images Appear with Streaks?

Setting [Reduce Ghosting] to [On] may solve the problem.

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Reduce Ghosting] ▶ [On]

* When you select [On], the printing speed may decrease.

Step 3: Checking the Maintenance Status of the Machine

Have You Cleaned the Fixing Assembly?

These symptoms may occur when the fixing assembly is dirty. In this case, clean the fixing assembly. **Cleaning the Fixing Assembly(P. 413)**

Step 4: Checking the Special Processing Setting

Is [Reduce Toner Flaking] Enabled?

If so, setting [Reduce Toner Flaking] to [Off] may improve the problem.

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Reduce Toner Flaking] ▶ [Off]

Printouts Are Faded

864Y-098

Troubleshoot by checking the following steps:

Step 1: Checking the Paper and Toner Cartridges(P. 451)
Step 2: Adjusting the Print Quality(P. 451)
Step 3: Checking the Usage Environment of the Machine(P. 451)
Step4: Checking the Special Processing Setting(P. 452)

Step 1: Checking the Paper and Toner Cartridges

Are You Using Appropriate Paper?

- Check whether the paper in the machine is usable, and replace it with appropriate paper, as needed.
  Usable Paper(P. 21)
  Loading Paper(P. 111)
- Set the paper size and type correctly according to the loaded paper. **Specifying the Paper Size and Type(P. 124)**

Does the Printed Toner Flake Off Depending on Paper Type or Usage Environment?

If so, setting [Reduce Toner Flaking] to [Mode 1] may improve the problem. If that does not work, select [Mode 2].

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Reduce Toner Flaking] ▶ [Mode 1] or [Mode 2]

* When this setting is enabled, ghost images may appear in unprinted areas.

Have the Toner Cartridges Reached the End of Their Lifetime?

Parts inside the toner cartridges may have deteriorated. If this symptom occurs, it is recommended to replace the toner cartridges regardless of the remaining amount of toner or messages displayed. **Replacing the Toner Cartridges(P. 416)**

Step 2: Adjusting the Print Quality

Are Images Shifted or Is Printing Faded Frequently?

Setting [Prevent Print Fading/Misalign.] to [On] may improve the problem.

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Prevent Print Fading/Misalign.] ▶ [On]

* When you select [On], the printing speed may decrease.

Step 3: Checking the Usage Environment of the Machine

Are You Using the Machine in an Environment with Sudden Temperature Changes?

Sudden temperature changes can create condensation, which can result in faded or blurry images and text. Setting [Control Condensation] to [On] may solve the problem.

[Home] on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Maintenance] ▶ [Control Condensation] ▶ [On]

* During condensation removal, a blank sheet of paper may be output without being printed correctly. If you set this to [On], you can set whether to restrict printing.
* If you set this to [On], you must keep the machine ON to continuously remove the condensation. The automatic shutdown setting is disabled.

Is the Machine Installed in a Location Subject to Strong Wind Such as from an Air Conditioner?

If so, adjust the air direction and volume of the air conditioner.
If that does not work, setting [Switch Paper Feed Method] to [Print Side Priority] may improve the problem.

[Home] on the operation panel ▶ [Menu] ▶ [Function Settings] ▶ [Common] ▶ [Paper Feed Settings] ▶ [Switch Paper Feed Method] ▶ [Print Side Priority]

* When you select [Print Side Priority], the printing speed for 1-Sided printing will decrease.

Step4: Checking the Special Processing Setting

Is [Special Processing] Enabled?

If so, setting [Special Processing] below to [Off] may improve the problem. **[Special Processing](P. 331)**

- [Env. Flap Closing Prevention]
- [Paper Curl Correction]
- [Rdc Condens. (Consec 2-Sd Prt)]
- [Correct Uneven Gloss]
- [Correct Void]

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing]

The Edge of the Page Is Not Printed

864Y-099

Troubleshoot by checking in the following order:

Are You Using Appropriate Paper?

Check whether the paper in the machine is usable, and replace it with appropriate paper, as needed.
Usable Paper(P. 21)
Loading Paper(P. 111)

Are the Paper Guides Correctly Aligned with the Paper?

Paper guides that are aligned but too loose or too tight can cause part of the page to not be printed. Check the paper guides, and align them with the width of the paper. **Loading Paper(P. 111)**

Are You Printing to the Edge of the Paper Without Margins?

This symptom may occur when the margin is set to none in the printer driver. To print with this machine, a margin of 5 mm (10 mm at the top and bottom of an envelope) is required.

On the [Printing preferences] screen of the printer driver, configure the following setting to provide a margin.

[Finishing] tab ▶ [Advanced Settings] ▶ [Expand Print Region and Print] ▶ [Off]

Colors or Stains Appear on the Background of Printouts

864Y-09A

Troubleshoot by checking in the following order:

Are White Areas Lightly Colored?

Setting [Prevent Fogging] to [Mode 1] may solve the problem. If that does not work, set the item to [Mode 2] and [Mode 3] in that order.

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Prevent Fogging] ▶ select the mode.

* When this setting is enabled, the print density may decrease.

Check the Remaining Amount of Toner in the Toner Cartridges.

Check the remaining amount of toner in the toner cartridges, and replace any toner cartridges, as needed.
Checking the Remaining Amount of Consumables(P. 420)
Replacing the Toner Cartridges(P. 416)

* Depending on the usage condition of the machine, the actual remaining amount of toner may be lower than indicated or the parts may be deteriorated. If the condition persists even after replacing the toner cartridge indicated to have a low amount of toner, it is recommended to replace the other toner cartridges as well.

White Spots Appear

864Y-09C

Troubleshoot by checking the following steps:

Step 1: Checking the Paper(P. 455)
Step 2: Checking the Toner Cartridges(P. 455)
Step 3: Checking the Occurrence of White Spots(P. 455)
Step 4: Checking the Usage Environment of the Machine(P. 455)

Step 1: Checking the Paper

Are You Using Appropriate Paper?

Check whether the paper in the machine is usable, and replace it with appropriate paper, as needed.
Usable Paper(P. 21)
Loading Paper(P. 111)

Are You Using Paper That Has Absorbed Moisture?

Check the precautions, and replace the paper with dry paper.
Precautions When Handling Paper(P. 25)
Loading Paper(P. 111)

Step 2: Checking the Toner Cartridges

Check the Remaining Amount of Toner in the Toner Cartridges.

Check the remaining amount of toner in the toner cartridges, and replace any toner cartridges, as needed.
Checking the Remaining Amount of Consumables(P. 420)
Replacing the Toner Cartridges(P. 416)

* Depending on the usage condition of the machine, the actual remaining amount of toner may be lower than indicated or the parts may be deteriorated. If the condition persists even after replacing the toner cartridge indicated to have a low amount of toner, it is recommended to replace the other toner cartridges as well.

Step 3: Checking the Occurrence of White Spots

Do White Spots Occur on the Leading Edge of the Paper?

This symptom may occur when printing on thin paper. Setting [Correct Void] to [On] may solve the problem.

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Correct Void] ▶ [On]

* When you select [On], the printouts may be faded.

Step 4: Checking the Usage Environment of the Machine

Are You Using the Machine in an Environment with Sudden Temperature Changes?

Sudden temperature changes can create condensation, which can result in faded or blurry images and text. Setting [Control Condensation] to [On] may solve the problem.

[Home] on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Maintenance] ▶ [Control Condensation] ▶ [On]

* During condensation removal, a blank sheet of paper may be output without being printed correctly. If you set this to [On], you can set whether to restrict printing.
* If you set this to [On], you must keep the machine ON to continuously remove the condensation. The automatic shutdown setting is disabled.

Does the Printed Toner Flake Off Depending on Paper Type or Usage Environment?

If so, setting [Reduce Toner Flaking] to [Mode 1] may improve the problem. If that does not work, select [Mode 2].

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Reduce Toner Flaking] ▶ [Mode 1] or [Mode 2]

* When this setting is enabled, ghost images may appear in unprinted areas.

Are You Using the Machine in an Environment with Low Humidity?

Setting [Low Humidity Mode] to [On] may solve the problem.

[Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Low Humidity Mode] ▶ [On]

* Setting this to [On] may reduce the density or create fading in a humid environment.

Smudge Marks Appear on the Back Side of Printouts

864Y-09F

Troubleshoot by checking in the following order:

Are You Using Paper That Is Smaller Than the Size of the Print Data?

Replace with paper that is the same size as the print data. **Loading Paper(P. 111)**

Have You Cleaned the Fixing Assembly?

These symptoms may occur when the fixing assembly is dirty. In this case, clean the fixing assembly. **Cleaning the Fixing Assembly(P. 413)**

Have You Cleaned the Transfer Belt?

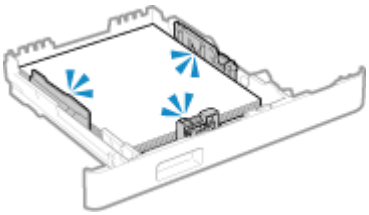
These symptoms may occur when the transfer belt is dirty. In this case, clean the transfer belt. **Cleaning the Transfer Belt(P. 414)**

Printouts Are Skewed

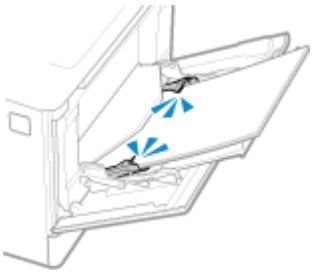
864Y-09H

This symptom may occur when the paper guides are aligned but too loose or too tight. Check the paper guides, and align them with the width of the paper. **Loading Paper(P. 111)**

Paper Drawer



Multi-purpose Tray



Paper and Paper Feeding Problems

864Y-09J

Check how to troubleshoot the problem based on the symptom.

Paper Creases(P. 460)
Paper Curls(P. 461)
Paper Is Not Fed or Two or More Sheets Are Fed Together(P. 462)
Paper Drawer Does Not Fit in the Machine(P. 463)

Paper Creases

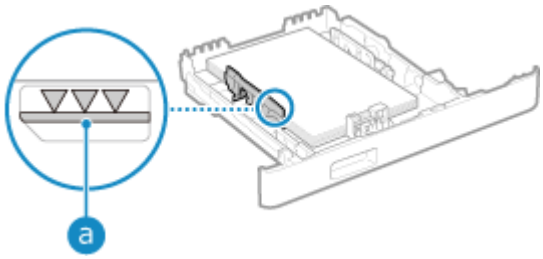
864Y-09K

Troubleshoot by checking the items below.

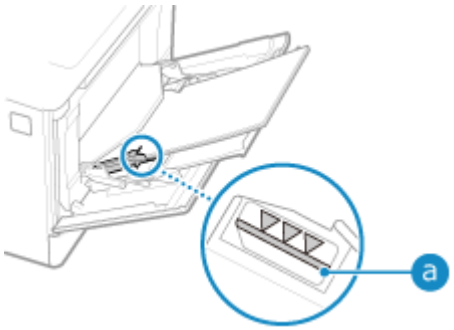
Is Paper Loaded Correctly?

- Make sure the loaded paper does not exceed the load limit line (a).

Paper Drawer

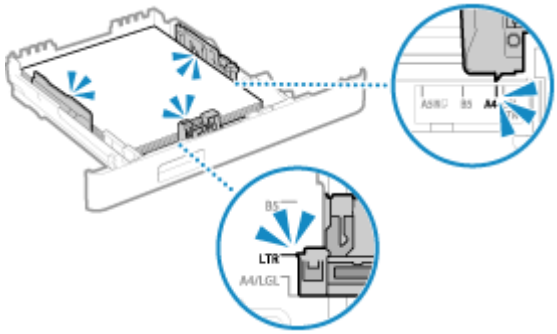


Multi-purpose Tray

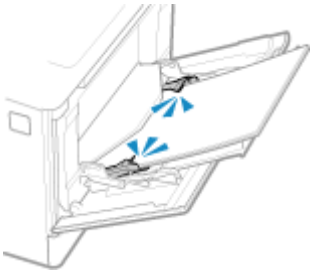


- Check that the paper guides are aligned with the markings and are not too loose or too tight.

Paper Drawer



Multi-purpose Tray



Are You Using Paper That Has Absorbed Moisture?

Check the precautions, and replace the paper with dry paper.
Precautions When Handling Paper(P. 25)
Loading Paper(P. 111)

Are You Using Appropriate Paper?

Check whether the paper in the machine is usable, and replace it with appropriate paper, as needed.
Usable Paper(P. 21)
Loading Paper(P. 111)

Paper Curls

864Y-09L

Troubleshoot by checking the items below.

Are You Using Appropriate Paper?

- Check whether the paper in the machine is usable, and replace it with appropriate paper, as needed.
  Usable Paper(P. 21)
  Loading Paper(P. 111)
- Set the paper size and type correctly according to the loaded paper. **Specifying the Paper Size and Type(P. 124)**
- Setting [Paper Curl Correction] to [On] may improve the problem.

  [Home] screen on the operation panel ▶ [Menu] ▶ [Adjustment/Maintenance] ▶ [Adjust Image Quality] ▶ [Special Processing] ▶ [Special Paper Processing] ▶ [Paper Curl Correction] ▶ [On]

  * When you select [On], this may result in faded printouts and slower printing speeds.
- Setting [Switch Paper Feed Method] to [Print Side Priority] may improve the problem.

  [Home] screen on the operation panel ▶ [Menu] ▶ [Function Settings] ▶ [Common] ▶ [Paper Feed Settings] ▶ [Switch Paper Feed Method] ▶ [Print Side Priority]

  * When you select [Print Side Priority], the printing speed for 1-Sided printing will decrease.
- Load the paper with the side to be printed (paper front and back) reversed.

  * In rare cases, the symptom may worsen depending on the paper used. In this case, print on the original side of the paper.

Are You Using Paper That Has Absorbed Moisture?

Try the following in the order below:

- Check the precautions, and replace the paper with dry paper.
  Precautions When Handling Paper(P. 25)
  Loading Paper(P. 111)
- Change the paper type setting to a thinner paper. **Specifying the Paper Size and Type(P. 124)**

Paper Is Not Fed or Two or More Sheets Are Fed Together

864Y-09R

Troubleshoot by checking the items below.

Are You Using Appropriate Paper?

Check whether the paper in the machine is usable, and replace it with appropriate paper, as needed.
Usable Paper(P. 21)
Loading Paper(P. 111)

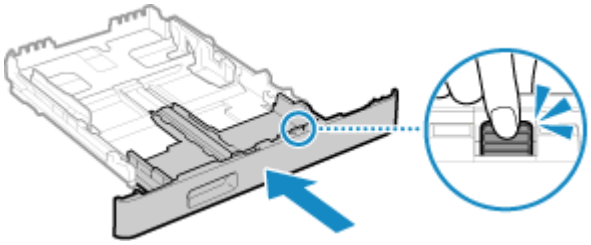
Is Paper Loaded Correctly?

- Fan the paper thoroughly in small batches so that it is not stuck together.
- Align the edges by tapping the paper on a flat surface a few times before loading the paper. **Loading Paper(P. 111)**
- Do not load paper of different sizes or types together.

Paper Drawer Does Not Fit in the Machine

864Y-09S

The paper drawer may be extended.
When you are using paper of A4 size or smaller, decrease the size of the paper drawer while pressing the lock release lever.



* When you are using paper that is longer than A4 size, the paper drawer is extended from the machine and is not fully housed.

Setting Up

864Y-09U

This is a list of problems that can occur during setup of the machine. Check how to troubleshoot the problem based on the symptom.

■ Problems During Driver Installation

The Machine Connected via WSD Port Is Not Displayed During Driver Installation(P. 465)

■ Problems with Wireless LAN and Wired LAN Connection

Cannot Connect to Wireless LAN

Check whether the machine can connect to the network.

Cannot Connect to Wireless LAN(P. 466)

Cannot Connect to Wired LAN

The IP address setting may have failed. Set the IP address again.

Setting IPv4 Addresses(P. 61)
Setting IPv6 Addresses(P. 63)

Cannot Connect to Wireless LAN and Wired LAN at the Same Time

You cannot connect the machine to a wireless LAN and wired LAN at the same time. You can connect to USB and wireless LAN or USB and wired LAN at the same time.

■ Problems with USB Connection

The Computer Cannot Communicate with the Machine

Try the following:

- Replace the USB cable. If the USB cable is long, replace it with a short cable.
- If you are using a USB hub, connect the machine directly to the computer using a USB cable.

The Machine Connected via WSD Port Is Not Displayed During Driver Installation

864Y-09W

Troubleshoot by checking the items below.

Check the Settings of the Machine.

Configure the settings below if they have not been configured.
The machine must be restarted to apply the settings.

WSD Printing and Multicast Discovery Settings

Log in to Remote UI in System Manager Mode ▶ [Settings/Registration] ▶ [Network Settings] ▶ [WSD Settings] ▶ [Edit] ▶ select the [Use WSD Printing] and [Use Multicast Discovery] checkboxes ▶ [OK] ▶ restart the machine.

On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. **[WSD Settings](P. 321)**

Selecting the Page Description Language

Select the page description language (PDL) of the installed driver.

Log in to Remote UI in System Manager Mode ▶ [Settings/Registration] ▶ [Printer Settings] ▶ [PDL Selection (Plug and Play)] ▶ [Edit] ▶ select the PDL in [Network] ▶ [OK] ▶ restart the machine.

On the operation panel, select [Menu] in the [Home] screen, and then select [Function Settings] to configure the settings. **[Network](P. 375)**

Check the OS Network Settings.

Configure the settings below if they have not been configured.

In Windows, click [ ] (Start) ▶ [ ] (Settings) ▶ [Network & Internet] ▶ [Status] ▶ [Change connection properties] ▶ [Network profile] ▶ [Private]

Check Whether the Driver Is Installed.

Use the following procedure to check whether the driver of the machine is displayed.

In Windows, click [ ] (Start) ▶ [ ] (Settings) ▶ [Devices] ▶ [Printers & scanners] ▶ check whether the driver is displayed.

If the driver is displayed, it is installed. In this case, uninstall the driver, and then reinstall it.
For details about uninstalling and installing drivers, see the driver manual at the online manual site.
https://oip.manual.canon/

Cannot Connect to Wireless LAN

864Y-09X

Troubleshoot by checking the status of the computer, wireless LAN router (access point), and machine with the steps below.

Step 1: Checking the Status of the Computer and Wireless LAN Router(P. 466)
Step 2: Checking the Status of the Machine and Wireless LAN Router(P. 466)
Step 3: Reconnecting to a Wireless LAN(P. 466)

Step 1: Checking the Status of the Computer and Wireless LAN Router

Have You Configured the Settings of the Computer and Wireless LAN Router?

Configure the required settings if they have not been configured.

Are the Power Cables and Ethernet Cable Connected Correctly?

If any cables are connected incorrectly or disconnected, connect them correctly.

Is the Power of Wireless LAN Router On?

If you cannot establish a connection even if the power is on, turn off the power of the computer and router and turn it on again.

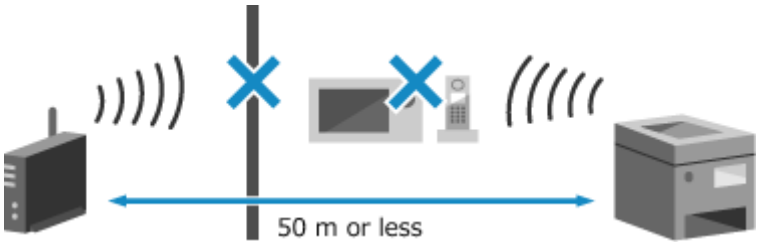
Step 2: Checking the Status of the Machine and Wireless LAN Router

Is the Power of the Machine ON?

If the power is ON, turn OFF the power and turn it ON again.

Is the Location Appropriate?

- The machine and wireless LAN router should be installed in a location without walls or other obstructions between the devices and within range of 50 m.
- Do not install near a microwave oven, cordless telephone, or other device that generates radio waves.



Step 3: Reconnecting to a Wireless LAN

Connect to the wireless LAN using the connection type according to your wireless LAN router. **Connecting to a Wireless LAN(P. 50)**

Network

864Y-09Y

This is a list of problems that can occur with the network. Check how to troubleshoot the problem based on the symptom.

Cannot Switch to Wireless LAN(P. 468)
Cannot Find the Print Server to Connect to(P. 469)
Cannot Connect to a Shared Printer(P. 470)
Cannot Find the IP Address of the Machine(P. 471)
AirPrint Does Not Work(P. 472)

Cannot Switch to Wireless LAN

864Y-0A0

Use the network settings to switch from wired LAN connection to wireless LAN connection.

1 On the operation panel, press [Menu] in the [Home] screen. [Home] Screen(P. 97)

2 Press [Preferences] ▶ [Network] ▶ [Select Wired/Wireless LAN].

If the login screen appears, enter the System Manager ID and PIN, and then press [Log In]. **System Manager ID and PIN(P. 9)**

3 Press [Wireless LAN].

➡ The message [Settings configured.] appears.

4 Connect the machine to the wireless LAN. Connecting to a Wireless LAN(P. 50)

5 Install the driver to the computer that will use the machine.

When switching the machine from wired LAN connection to wireless LAN connection, any installed drivers must be uninstalled and then reinstalled.
For details about uninstalling and installing drivers, see the driver manual at the online manual site.
https://oip.manual.canon/

Cannot Find the Print Server to Connect to

864Y-0A1

Troubleshoot by checking the items below.

Are the Print Server and Computer Connected Correctly?

- Check the network settings of the print server and computer, and make sure they are connected correctly.
- If they are connected using an Ethernet cable, make sure the cable is connected correctly.

Is the Print Server Started?

Start the print server if it has not been started.

Are there Any Restrictions with Connecting to the Print Server?

Check with the administrator of the print server, and ask for permission, if needed.

Is Network Discovery Enabled? (Windows)

Enable network discovery if not enabled. **Enabling Network Discovery(P. 517)**

Cannot Connect to a Shared Printer

864Y-0A2

Check if a shared printer is displayed on the network computer. **Displaying a Shared Printer in the Print Server(P. 517)**

If it is not displayed, contact the network or print server administrator.

Cannot Find the IP Address of the Machine

864Y-0A3

View the IP address using the following procedure:

Viewing the IPv4 Address

[Home] screen on the operation panel ▶ [Status Monitor] ▶ [Network Information] ▶ [IPv4] ▶ view the setting.

Viewing the IPv6 Address

[Home] screen on the operation panel ▶ [Status Monitor] ▶ [Network Information] ▶ [IPv6] ▶ view the setting.

NOTE

If the IP Address Is Displayed as "0.0.0.0"

- A suitable IP address is not set. Set the IP address again.
  Setting IPv4 Addresses(P. 61)
  Setting IPv6 Addresses(P. 63)

AirPrint Does Not Work

864Y-0A4

Troubleshoot by checking the items below.

Is the Power of the Machine ON?

If the machine is ON, restart the machine, and try AirPrint again. **Restarting the Machine(P. 90)**

Does an Error Message Appear on the Operation Panel?

Follow the instructions of the error message on the screen to fix the problem. **A Message Appears(P. 487)**

When Using a Mac, Is it Correctly Connected to the Machine?

Connect the Mac to the network on the same LAN as the machine. **Setting Up the Network(P. 46)**
When connecting via USB, directly connect the Mac to the USB port for computer connection on the back of the machine with a USB cable. **Rear Side(P. 15)**

Are You Required to Enter the Department ID and PIN to Print from a Computer? (When Using Department ID Management on the Machine)

If you are required to enter a Department ID and PIN to print from a computer, the machine blocks printing from an unknown Department ID, so AirPrint cannot be used. To enable use of AirPrint, cancel blocking of printing when the Department ID is unknown. **Enabling Department ID Management(P. 218)**

Have the Functions Usable with AirPrint Been Restricted?

If the protocol (IPP or Network Link Scan) for use with AirPrint has been disabled to restrict functions, cancel this restriction to enable the use of AirPrint. **Setting the Functions and Security to Be Used with AirPrint(P. 195)**

Is Bonjour Enabled on Your Apple Device?

Enable Bonjour if it is not enabled. For details, see the manual of your Apple device.

Printing

864Y-0A5

This is a list of problems that can occur when printing. Check how to troubleshoot the problem based on the symptom.

Cannot Print(P. 474)
Printing Is Slow(P. 480)

■ Problems with Printing Results

If the printing results are not as expected, see the following:
Problems with Printing Results(P. 440)

■ Frequently Asked Questions about Operations

I Want to Print on an Envelope.
Place the envelope in the paper drawer or multi-purpose tray while paying attention to the orientation and side of the envelope.
Then, set the paper size and type according to the placed envelope.
Next, use the printer driver of the computer to set the paper size of the document and the paper size to print, and then perform printing.
Preparations and Orientation for Loading Envelopes(P. 120)
Specifying the Paper Size and Type(P. 124)
Printing from a Computer(P. 163)

Cannot Print

864Y-0A6

Troubleshoot by checking the items below.

Has an Error Occurred?

Check the print processing status and log, and if a three-digit number starting with "#" (error code) is displayed, check how to troubleshoot the problem based on the error code.
Viewing the Print Job Status and Log(P. 187)
An Error Code Is Displayed(P. 502)

Can You Print a Test Page?

If you can print a test page, check if the print settings of the application are correct.
Printing a Test Page(P. 523)

Check the Network Status and Settings.

Check the required items according to the usage environment.
Cannot Print (Wireless LAN)(P. 475)
Cannot Print (Wired LAN)(P. 477)
Cannot Print (USB Connection)(P. 478)
Cannot Print (via Print Server)(P. 479)

Cannot Print (Wireless LAN)

864Y-0A7

Troubleshoot by checking the items below.

Check the Wireless LAN Connection Status.

Check the connection status of the machine, and take action according to the status. **Viewing the MAC Address and Connection Information of the Wireless LAN(P. 81)**

If the Machine Is Not Connected to the Wireless LAN

Check the status of the computer and wireless LAN router (access point) and the status of the machine, and reconnect to the wireless LAN. **Cannot Connect to Wireless LAN(P. 466)**

If the Connection Is Poor

Change the following settings on the wireless LAN router, and try printing:

- Change the channel of the wireless LAN router. If there are multiple wireless LAN routers, separate the channels by five or more channels.
- Increase the wireless output of the wireless LAN router if possible.

Are the Machine and Computer Connected to the Same Wireless LAN Router?

- When you are using a computer connected to a wireless LAN, check that the SSID (identifier of the wireless LAN router) of the machine matches that of the computer.
  Viewing the MAC Address and Connection Information of the Wireless LAN(P. 81)
  Viewing the Network Connection Information of the Computer(P. 520)
- If the SSID of the machine and the computer do not match, configure the wireless LAN connection settings on the machine again, and connect the machine to the SSID to which the computer is connected. **Connecting to a Wireless LAN(P. 50)**

Is the Printer Port of the Computer Configured Correctly? (Windows)

Change the settings if they have not been configured correctly. If there is no available port, add a new port.
Viewing the Printer Port(P. 522)
Configuring a Printer Port (Windows)(P. 149)

Can You Access Remote UI?

If you cannot access Remote UI, the firewall settings of the machine may be incorrect, preventing communication with the computer.
Use the following procedure to disable the firewall settings with the operation panel, and then use Remote UI to configure the firewall again.

Administrator privileges are required. The machine must be restarted to apply the settings.

1 Disable the firewall settings.

To Disable IPv4 Address Filter

[Home] screen on the operation panel ▶ [Menu] ▶ [Preferences] ▶ [Network] ▶ [Firewall Settings] ▶ [IPv4 Address Filter] ▶ [Outbound Filter] or [Inbound Filter] ▶ [Off] ▶ [Apply] ▶ Restart the machine.

To Disable IPv6 Address Filter

[Home] screen on the operation panel ▶ [Menu] ▶ [Preferences] ▶ [Network] ▶ [Firewall Settings] ▶ [IPv6 Address Filter] ▶ [Outbound Filter] or [Inbound Filter] ▶ [Off] ▶ [Apply] ▶ Restart the machine.

To Disable MAC Address Filter

[Home] screen on the operation panel ▶ [Menu] ▶ [Preferences] ▶ [Network] ▶ [Firewall Settings] ▶ [MAC Address Filter] ▶ [Outbound Filter] or [Inbound Filter] ▶ [Off] ▶ [Apply] ▶ Restart the machine.

2 Configure the firewall correctly. **Setting the Firewall(P. 224)**

Reinstall the Printer Driver.

Uninstall the installed driver, and then reinstall it.
For details about uninstalling and installing drivers, see the driver manual at the online manual site.
https://oip.manual.canon/

Are You Using Resident Software?

If you are using resident software, such as security software, disable it and then try printing.

Can You Print from Another Computer in the Network?

If you cannot print from another computer, contact your dealer or service representative. **If the Problem Persists(P. 507)**

Cannot Print (Wired LAN)

864Y-0A8

Troubleshoot by checking the items below.

Is the Printer Port of the Computer Configured Correctly? (Windows)

Change the settings if they have not been configured correctly. If there is no available port, add a new port.
Viewing the Printer Port(P. 522)
Configuring a Printer Port (Windows)(P. 149)

Can You Access Remote UI?

If you cannot access Remote UI, the firewall settings of the machine may be incorrect, preventing communication with the computer.
Use the following procedure to disable the firewall settings with the operation panel, and then use Remote UI to configure the firewall again.

Administrator privileges are required. The machine must be restarted to apply the settings.

1 Disable the firewall settings.

To Disable IPv4 Address Filter

[Home] screen on the operation panel ▶ [Menu] ▶ [Preferences] ▶ [Network] ▶ [Firewall Settings] ▶ [IPv4 Address Filter] ▶ [Outbound Filter] or [Inbound Filter] ▶ [Off] ▶ [Apply] ▶ Restart the machine.

To Disable IPv6 Address Filter

[Home] screen on the operation panel ▶ [Menu] ▶ [Preferences] ▶ [Network] ▶ [Firewall Settings] ▶ [IPv6 Address Filter] ▶ [Outbound Filter] or [Inbound Filter] ▶ [Off] ▶ [Apply] ▶ Restart the machine.

To Disable MAC Address Filter

[Home] screen on the operation panel ▶ [Menu] ▶ [Preferences] ▶ [Network] ▶ [Firewall Settings] ▶ [MAC Address Filter] ▶ [Outbound Filter] or [Inbound Filter] ▶ [Off] ▶ [Apply] ▶ Restart the machine.

2 Configure the firewall correctly. **Setting the Firewall(P. 224)**

Reinstalling the Printer Driver

Uninstall the installed driver, and then reinstall it.
For details about uninstalling and installing drivers, see the driver manual at the online manual site.
https://oip.manual.canon/

Are You Using Resident Software?

If you are using resident software, such as security software, disable it and then try printing.

Can You Print from Another Computer in the Network?

If you cannot print from another computer, contact your dealer or service representative. **If the Problem Persists(P. 507)**

Cannot Print (USB Connection)

864Y-0A9

Troubleshoot by checking the items below.

Check the USB Cable.

- If you are using a long USB cable, replace it with a short USB cable.
- If you still cannot print with a short USB cable, the cable may be damaged. Replace with a new USB cable, and try printing.

Are You Using a USB Hub?

Connect the machine directly to the computer using a USB cable.

Try Using Another USB Port.

Connect the USB cable to another USB port on your computer.

Is the Printer Port of the Computer Configured Correctly? (Windows)

If the printer port is not configured correctly or there is no available port, reinstall the printer driver. When you reinstall the driver, the correct port is configured automatically. **Viewing the Printer Port(P. 522)**
For details about installing the driver, see the manual of the driver at the online manual site.
https://oip.manual.canon/

Is Two-way Communication Between the Machine and Computer Enabled? (Windows)

Enable two-way communication if it is not enabled, and restart the computer and machine. **Viewing Two-way Communication(P. 523)**

Is a Setting Preventing the Machine from Establishing a USB Connection to the Computer?

If usage of the USB port for computer connection on the back of the machine is restricted, cancel this setting. **Preventing Connection to Computer via USB Port(P. 263)**

Are You Using Resident Software?

If you are using resident software, such as security software, disable it and then try printing.

Can You Print via USB Connection from Another Computer?

If you cannot print from another computer, contact your dealer or service representative. **If the Problem Persists(P. 507)**

Cannot Print (via Print Server)

864Y-0AA

Troubleshoot by checking the items below.

Can You Print from the Print Server?

If you can print, check the connection between the computer and the print server. **Cannot Find the Print Server to Connect to(P. 469)**

Reinstall the Printer Driver.

Uninstall the installed driver, and then reinstall it.
For details about uninstalling and installing drivers, see the driver manual at the online manual site.
https://oip.manual.canon/

Installing in Windows

Use a print server to install the printer driver.
Double-click the shared printer on the print server, and follow the instructions on the screen to install the printer driver. **Displaying a Shared Printer in the Print Server(P. 517)**

Are You Using Resident Software?

If you are using resident software, such as security software, disable it and then try printing.

Can You Print via a Print Server from Another Computer?

If you cannot print from another computer, contact your dealer or service representative. **If the Problem Persists(P. 507)**

Printing Is Slow

864Y-0AC

It takes time until the first page is printed. The printing speed may be slower after continuous printing or printing on narrow paper to allow for adjustments of the temperature or image quality of the machine.

In all other cases, an error may have occurred. Troubleshoot by checking the items below.

Check the Paper Orientation.

This symptom may occur depending on the paper orientation. Change the paper orientation if possible. **Loading Paper(P. 111)**

Is Secure Print Enabled?

This symptom may occur when Secure Print is enabled. Use the procedure below to disable Secure Print. The machine must be restarted to apply the settings.

Log in to Remote UI in System Manager Mode ▶ [Settings/Registration] ▶ [Secure Print Settings] ▶ [Edit] ▶ clear the [Secure Print] checkbox ▶ [OK] ▶ restart the machine.

On the operation panel, select [Menu] in the [Home] screen, and then select [Function Settings] to configure the settings. **[Secure Print](P. 338)**

Management Functions and Environment Settings

864Y-0AE

This is a list of frequently asked questions about management functions. Check the applicable item.

Cannot Access Remote UI(P. 482)
Changing the Volume of the Confirmation Sound and Warning Tone(P. 483)
Changing the Time Until Sleep Mode(P. 484)
Lost Department ID or PIN for the Administrator(P. 485)
Checking the Items That Can Be Configured on the Machine and Their Settings(P. 486)

Cannot Access Remote UI

864Y-0AF

If the message [Cannot access Remote UI.] or [Cannot continue the settings because the function to perform settings for the device is restricted.] appears and you cannot access Remote UI, troubleshoot by checking the items below.

Set the Remote UI Access PIN.

To access the Remote UI, you must set the Remote UI Access PIN.

Administrator privileges are required to configure the setting.

[Home] screen on the operation panel ▶ [Menu] ▶ [Management Settings] ▶ [License/Other] or [Remote UI Settings/Update Firmware] ▶ [Remote UI Settings] ▶ [Restrict Access] ▶ [On] ▶ enter the PIN ▶ [Apply] ▶ enter the PIN again ▶ [Apply]

* You cannot set a PIN consisting of all zeros, such as "00" or "0000000."
* A Remote UI PIN is not required when Department ID Management is enabled.

Change the System Manager PIN.

When logging in with System Manager Mode, you must change the System Manager PIN from the default settings.

Administrator privileges are required to change the settings.

[Home] screen on the operation panel ▶ [Menu] ▶ [Management Settings] ▶ [User Management] ▶ [System Manager Information Settings] ▶ [System Manager ID and PIN] ▶ enter the System Manager ID ▶ [Apply] ▶ enter the PIN ▶ [Apply] ▶ enter the PIN again ▶ [Apply]

* You cannot set a System Manager ID or PIN consisting of all zeros, such as "00" or "0000000."
* Only allow certain administrators to have access to the System Manager ID and PIN after the settings are changed.

Changing the Volume of the Confirmation Sound and Warning Tone

864Y-0AH

You can change the volume of the confirmation sound and warning tone according to the usage environment of the machine.

Adjusting the Volume(P. 140)

Changing the Time Until Sleep Mode

864Y-0AJ

In addition to being able to change the time until the machine enters sleep mode, you can also configure a specified time the machine enters sleep mode.

Reducing Power Consumption (Sleep Mode)(P. 92)

Lost Department ID or PIN for the Administrator

864Y-0AK

Contact the administrator to check whether the System Manager ID and System Manager PIN were changed from the default settings.

If they have not been changed from the default settings, they are listed below.

- **System Manager ID:** 7654321
- **System Manager PIN:** 7654321

* If they have not been changed from the default settings, change them for enhanced security, and allow only certain administrators to know this information. **Setting the Department ID and PIN for the Administrator(P. 211)**

NOTE

- If you still cannot recover your System Manager ID and PIN even after confirming the above information, contact your dealer or service representative. **If the Problem Persists(P. 507)**

Checking the Items That Can Be Configured on the Machine and Their Settings

864Y-0AL

You can print the User Data List and System Manager Data List to check the items that can be configured on the machine and their settings.
Printing and Viewing Reports and Lists(P. 286)

User Data List
Displays the settings that do not require administrator privileges.

System Manager Data List
Displays the settings that require administrator privileges.

A Message Appears

864Y-0AR

If a message appears on the operation panel, select the message from the list below, and check how to troubleshoot the problem.

- **Black & White printing is restricted. Only Color printing is available.(P. 488)**
- **Cannot analyze the authentication server certificate.(P. 488)**
- **Cannot find the access point.(P. 488)**
- **Cannot print. A non-Canon or counterfeit cartridge may be inserted.(P. 489)**
- **Cannot print RX data.(P. 489)**
- **Cannot recognize the image.(P. 489)**
- **Cartridge communication error. Cannot print. A non-Canon or counterfeit cartridge may be inserted.(P. 490)**
- **Cartridge Communication Error Problems resulting from the use of non-Canon cartridges are not covered under the warranty.(P. 490)**
- **Change the authentication password.(P. 490)**
- **Check the authentication settings.(P. 490)**
- **Color printing is restricted. Only Black & White printing is available.(P. 490)**
- **Could not connect.(P. 491)**
- **Could not connect. Check the encryption key.(P. 491)**
- **Could not connect. The maximum number of devices that can connect to the access point has been reached.(P. 491)**
- **Could not connect using Easy Connection via PC. The device will restart.(P. 491)**
- **Could not connect using the wireless LAN. Turn the main power OFF and ON, then configure the settings again.(P. 492)**
- **Could not connect using WPS. Wait a moment, then configure the settings again.(P. 492)**
- **Could not detect any connections from wireless devices.(P. 492)**
- **Could not perform cleaning.(P. 493)**
- **Could not perform correction.(P. 493)**
- **Could not perform IEEE 802.1X authentication. Cannot analyze the authentication server certificate.(P. 493)**
- **Could not perform IEEE 802.1X authentication. Change the authentication password.(P. 493)**
- **Could not perform IEEE 802.1X authentication. Check the authentication settings.(P. 493)**
- **Could not perform IEEE 802.1X authentication. Configure the correct authentication information.(P. 493)**
- **Could not perform IEEE 802.1X authentication. Configure the information required for authentication.(P. 494)**
- **Could not perform IEEE 802.1X authentication. No reply from the destination.(P. 494)**
- **Could not perform IEEE 802.1X authentication. The authentication server certificate has expired.(P. 494)**
- **Could not perform IEEE 802.1X authentication. The authentication server certificate is incorrect.(P. 494)**
- **Could not perform Open System authentication. Check the encryption key settings.(P. 494)**
- **Could not perform Shared Key authentication. Check the encryption key settings.(P. 495)**
- **Direct Connection terminated.(P. 495)**
- **Easy Connection via PC ended due to timeout The device will restart.(P. 495)**
- **End of Cartridge Lifetime(P. 495)**
- **ITB is near end of lifetime. Replcmt. is not yet needed.(P. 496)**
- **Load paper.(P. 496)**
- **Low Cartridge Level(P. 496)**
- **Memory Full (Secure Print)(P. 496)**
- **Memory Full (Skip Error)(P. 497)**
- **Memory Media Print is restricted.(P. 497)**
- **No reply from the destination.(P. 497)**
- **No response from the host.(P. 497)**
- **Paper jammed.(P. 497)**

Paper Settings and Loaded Size Mismatch(P. 497)
Prepare cartridge.(P. 498)
Printing is restricted.(P. 498)
Problems resulting from the use of non-Canon cartridges are not covered under the warranty. The amount remaining in the cartridge cannot be displayed correctly.(P. 499)
Set the correct authentication information.(P. 499)
Set the information necessary for authentication.(P. 499)
The authentication server certificate has expired.(P. 499)
The authentication server certificate is incorrect.(P. 499)
The computer is restricted.(P. 500)
The encryption key is not set correctly. Check the encryption key settings.(P. 500)
The memory is full.(P. 500)
The number of entered characters is incorrect or invalid characters are used.(P. 500)
Use Remote UI to set the information necessary for authentication.(P. 500)

NOTE

- If the problem persists even after trying the troubleshooting methods, contact your dealer or service representative. **If the Problem Persists(P. 507)**

Black & White printing is restricted. Only Color printing is available.

Black and white printing is restricted due to Department ID Management.

Log In with a Department ID That Does Not Restrict Black and White Printing.
For the Department ID and PIN, contact the system administrator.

To Cancel Restriction, Change the [Restrict Functions] Setting of Your Department ID.

Log in to Remote UI in System Manager Mode ▶ [Settings/Registration] ▶ [User Management] ▶ [Department ID Management] ▶ select the Department ID to edit ▶ clear the [Restrict Black & White Print] checkbox ▶ [OK]

On the operation panel, select [Menu] in the [Home] screen, and then select [Management Settings] to change the setting. **[Department ID Management](P. 388)**

Cannot analyze the authentication server certificate.

The certificate of the authentication server may not be correct, or it may be a format unsupported by the machine.

Check the Certificate of the Authentication Server, and Change the Setting, as Needed.
Setting IEEE 802.1X(P. 236)

Cannot find the access point.

An error occurred, preventing the machine from detecting the wireless LAN router (access point).

Is Connection Type Configured Correctly?
Select the connection type (WPS) according to the method supported by the wireless LAN router. **Connecting to a Wireless LAN by Using the Router Button (Push Button Mode)(P. 53)**

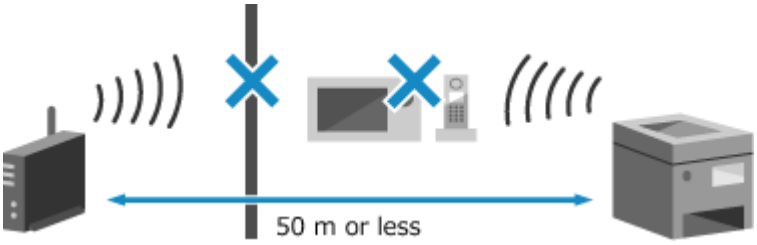
Did You Connect Within the Fixed Time?
When connecting by pressing a button on the wireless LAN router, set the connection type on the operation panel of the machine, and then press the button on the wireless LAN router within one or two minutes. **Connecting to a Wireless LAN by Using the Router Button (Push Button Mode)(P. 53)**

Are the SSID and Network Key Configured Correctly?

When entering the wireless LAN router information manually, check the SSID and network key of the wireless LAN router, and configure the settings correctly on the machine. **Connecting to a Wireless LAN by Setting the Details (Manual Setup Method)(P. 58)**

Are the Machine and Wireless LAN Router Located Appropriately?

- The machine and wireless LAN router should be installed in a location without walls or other obstructions between the devices and within range of 50 m.
- Do not install near a microwave oven, digital cordless telephone, or other device that generates radio waves.



Check the Security Settings of the Wireless LAN Router.
For details, see the manual of the wireless LAN router or contact the manufacturer.

Cannot print. A non-Canon or counterfeit cartridge may be inserted.

Printing cannot be performed due to the use of a toner cartridge whose print quality cannot be guaranteed.

Replace with a New Toner Cartridge.
Replacing the Toner Cartridges(P. 416)

For optimum print quality, using Canon genuine toner cartridges is recommended. **List of Consumables(P. 421)**

Cannot print RX data.

Received data cannot be printed for some reason.

Do the Cause and Solution Appear on the Operation Panel?
If so, follow the instructions on the screen.

Is the Front Cover, Rear Cover, or Feeder Cover Open on the Machine?
Close the covers if they are open.

Is Paper Loaded?
Load paper if not loaded. **Loading Paper(P. 111)**

Is Paper Jammed?
If so, remove any jammed paper. **Paper Jams(P. 431)**

Have the Toner Cartridges Reached the End of Their Lifetime?
Check the remaining amount of toner in the toner cartridges, and replace any toner cartridges, as needed.
Checking the Remaining Amount of Consumables(P. 420)
Replacing the Toner Cartridges(P. 416)

Cannot recognize the image.

In Memory Media Print, you selected an image for which a preview cannot be displayed.

Does the Machine Have Sufficient Free Memory?
If the machine does not have sufficient free memory, previews of JPEG and TIFF images cannot be displayed.

Cartridge communication error. Cannot print. A non-Canon or counterfeit cartridge may be inserted.

Printing cannot be performed due to incorrect installation of the toner cartridge, a damaged toner cartridge, or the use of a toner cartridge whose print quality cannot be guaranteed.

Reinstall the Toner Cartridges or Replace with New Toner Cartridges.
Replacing the Toner Cartridges(P. 416)

- For optimum print quality, using Canon genuine toner cartridges is recommended. **List of Consumables(P. 421)**
- If the message still appears after repeatedly reinstalling the toner cartridges, contact your dealer or service representative. **If the Problem Persists(P. 507)**

Cartridge Communication Error Problems resulting from the use of non-Canon cartridges are not covered under the warranty.

Printing cannot be performed due to incorrect installation of the toner cartridges, a damaged toner cartridge, or the use of a non-Canon toner cartridge, resulting in a communication error.

Reinstall the Toner Cartridges.
Replacing the Toner Cartridges(P. 416)

- For optimum print quality, using Canon genuine toner cartridges is recommended. **List of Consumables(P. 421)**
- If the message still appears after repeatedly reinstalling the toner cartridges, contact your dealer or service representative. **If the Problem Persists(P. 507)**

Change the authentication password.

The password has expired.
Set a new password.

Check the authentication settings.

The authentication method set on the machine does not match that set on the RADIUS server.

Check the Authentication Method Set on the RADIUS Server, and Set This Correctly.
Setting IEEE 802.1X(P. 236)

Color printing is restricted. Only Black & White printing is available.

Color printing is restricted due to Department ID Management.

Log In with a Department ID That Does Not Restrict Color Printing.
For the Department ID and PIN, contact the system administrator.

To Cancel Restriction, Change the [Restrict Functions] Setting of Your Department ID.

Log in to Remote UI in System Manager Mode ▶ [Settings/Registration] ▶ [User Management] ▶ [Department ID Management] ▶ select the Department ID to edit ▶ clear the [Restrict Color Print] checkbox ▶ [OK]

On the operation panel, select [Menu] in the [Home] screen, and then select [Management Settings] to change the setting. **[Department ID Management](P. 388)**

Could not connect.

An error occurred, preventing the machine from establishing a direct connection.

Wait a Moment, and Try Connecting Again.
If you still cannot establish a connection, restart the machine.

Set the IP Address for Connection to Something Other Than "192.168.22.xx".
The machine must be restarted to apply the settings.

Log in to Remote UI in System Manager Mode ▶ [Settings/Registration] ▶ [Network Settings] ▶ [Direct Connection Settings] ▶ [Edit] ▶ in [IP Address for Direct Connection], enter the IP address ▶ [OK] ▶ restart the machine

On the operation panel, select [Menu] in the [Home] screen, and then select [Preferences] to configure the settings. **[Direct Connection Settings](P. 310)**

Is the Subnet Mask Configured Correctly?
Check the IPv4 subnet mask settings. Change the settings if they have not been configured correctly. For details, contact the network administrator.
Viewing the IP address set to the machine(P. 80)
Setting IPv4 Addresses(P. 61)

Could not connect. Check the encryption key.

The network key (encryption key) of the wireless LAN router (access point) is not configured correctly, preventing connection.

Reset the Network Key.
Check the network key of the wireless LAN router, and configure the settings correctly on the machine. **Connecting to a Wireless LAN(P. 50)**

Could not connect. The maximum number of devices that can connect to the access point has been reached.

The maximum number of devices that can be connected to the wireless LAN router (access point) has been reached, preventing connection.

Reduce the Number of Devices (Clients) Connected to the Wireless LAN Router.
For the maximum number of connections, see the manual of the wireless LAN router or contact the manufacturer.

Could not connect using Easy Connection via PC. The device will restart.

An error occurred, preventing the machine from connecting in Access Point Mode. Alternatively, an error occurred when starting cableless setup mode.

Restart the Machine, and Start Cableless Setup Mode Again.
Administrator privileges are required.

[Home] on the operation panel ▶ [Menu] ▶ [Preferences] ▶ [Network] ▶ [Easy Connection via PC] ▶ [Yes] ▶ start the settings on the computer

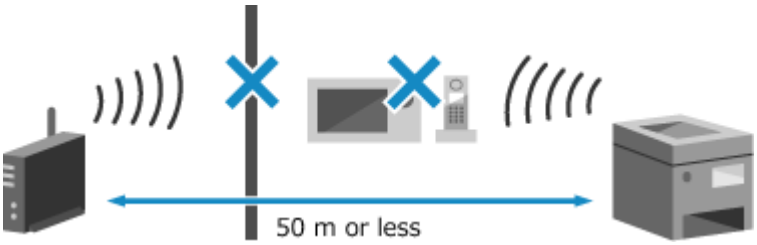
Could not connect using the wireless LAN. Turn the main power OFF and ON, then configure the settings again.

An error occurred, preventing the machine from connecting to the wireless LAN.

Restart the Machine, and Configure the Wireless LAN Connection Again.
Connecting to a Wireless LAN(P. 50)

Are the Machine and Wireless LAN Router (Access Point) Located Appropriately?

- The machine and wireless LAN router should be installed in a location without walls or other obstructions between the devices and within range of 50 m.
- Do not install near a microwave oven, digital cordless telephone, or other device that generates radio waves.



Check the Security Settings of the Wireless LAN Router.
For details, see the manual of the wireless LAN router or contact the manufacturer.

Could not connect using WPS. Wait a moment, then configure the settings again.

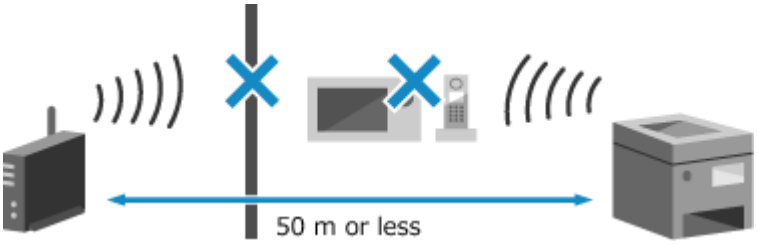
An error occurred, preventing the machine from establishing a WPS connection.

Wait a Moment, and Configure the Settings Again.
If you still cannot establish a WPS connection, check whether the wireless LAN router (access point) supports WPS.

If It Supports WPS

Check that the machine and wireless LAN router are located appropriately.

- The machine and wireless LAN router should be installed in a location without walls or other obstructions between the devices and within range of 50 m.
- Do not install near a microwave oven, digital cordless telephone, or other device that generates radio waves.



If It Does Not Support WPS

Connect using a different connection type. **Connecting to a Wireless LAN(P. 50)**

Could not detect any connections from wireless devices.

An error occurred, preventing the machine from detecting mobile devices.

Did You Connect Within the Fixed Time?
Connect the mobile device to the machine within five minutes of the SSID and network key being displayed.

Could not perform cleaning.

Cleaning could not be performed due to jammed paper, loading of incorrect paper, or another problem.

Is Paper Loaded?
Load paper in the paper drawer if not loaded. **Loading Paper in the Paper Drawer(P. 112)**

Is Paper Jammed?
If so, remove any jammed paper. **Paper Jams(P. 431)**

Could not perform correction.

Correction could not be performed due to jammed paper or another problem.

Is Paper Jammed?
Remove any jammed paper. **Paper Jams(P. 431)**

Check the Remaining Amount of Toner in the Toner Cartridges.
A sufficient amount of toner in the toner cartridges is required to perform correction. Check the remaining amount of toner in the toner cartridges, and replace any toner cartridges, as needed.
Checking the Remaining Amount of Consumables(P. 420)
Replacing the Toner Cartridges(P. 416)

Could not perform IEEE 802.1X authentication. Cannot analyze the authentication server certificate.

Check the certificate of the authentication server, and change the setting, as needed.

Check the Certificate of the RADIUS Server, and Change the Setting, as Needed.
Setting IEEE 802.1X(P. 236)

Could not perform IEEE 802.1X authentication. Change the authentication password.

The password has expired.

Set a New Password.
Setting IEEE 802.1X(P. 236)

Could not perform IEEE 802.1X authentication. Check the authentication settings.

The authentication method set on the machine does not match that set on the RADIUS server.

Check the Authentication Method Set on the RADIUS Server, and Set This Correctly.
Setting IEEE 802.1X(P. 236)

Could not perform IEEE 802.1X authentication. Configure the correct authentication information.

The authentication method or authentication information of IEEE 802.1X is not set correctly.

Set the Authentication Method and Authentication Information (Keys and Certificates, Password, CA Certificate) Correctly.
Setting IEEE 802.1X(P. 236)
Managing and Verifying a Key and Certificate(P. 238)

Could not perform IEEE 802.1X authentication. Configure the information required for authentication.

The authentication method or authentication information of IEEE 802.1X is not set correctly.

Set the Authentication Method and Authentication Information (Keys and Certificates, Password, CA Certificate) Correctly.
Setting IEEE 802.1X(P. 236)
Managing and Verifying a Key and Certificate(P. 238)

Could not perform IEEE 802.1X authentication. No reply from the destination.

The network connection may have a problem.

Check the Network Status and Settings.

- Check the Ethernet cable and switch status.
- Check the network key of the wireless LAN router, and configure the settings correctly on the machine.

Could not perform IEEE 802.1X authentication. The authentication server certificate has expired.

The server certificate sent from the RADIUS server has expired.

Check the Expiry Date of the RADIUS Server.
Setting IEEE 802.1X(P. 236)

Could not perform IEEE 802.1X authentication. The authentication server certificate is incorrect.

A CA certificate that supports the certificate of the authentication server is not registered to the machine.

Check the Certificate Information of the Authentication Server, and Register a Supported CA Certificate.
Setting IEEE 802.1X(P. 236)
Registering a Key and Certificate or CA Certificate Obtained from an Issuing Authority(P. 251)

Could not perform Open System authentication. Check the encryption key settings.

The WEP authentication methods of the machine and wireless LAN router (access point) do not match, or MAC address filtering of the wireless LAN router is set to prevent a connection to the machine, thereby preventing Open System Authentication.

Use the Manual Setup Method to Change the WEP Authentication Method to [Shared Key], and Connect Again.
Connecting to a Wireless LAN by Setting the Details (Manual Setup Method)(P. 58)

In the MAC address filtering setting of the wireless LAN router, allow the connection to the machine.

Check the MAC address of the machine, and configure the wireless LAN router to allow a connection from that MAC address. **Viewing the MAC Address and Connection Information of the Wireless LAN(P. 81)**
For the setup method, see the manual of the wireless LAN router or contact the manufacturer.

Could not perform Shared Key authentication. Check the encryption key settings.

The network key (encryption key) of the wireless LAN router (access point) is not configured correctly, or the WEP authentication methods of the machine and wireless LAN router do not match, preventing Shared Key Authentication.

Reset the Network Key.
Check the network key of the wireless LAN router, and configure the settings correctly on the machine. **Connecting to a Wireless LAN(P. 50)**

Match the WEP Authentication Method on the Machine and Wireless LAN Router.
The machine may be set to Shared Key Authentication, and the wireless LAN router may be set to Open System Authentication. Change the WEP setting according to the authentication method you are using.

When Using Open System Authentication

Connect to the wireless LAN using either of the following methods:

- Connect with the access point setup method. **Connecting to a Wireless LAN by Searching for a Router (Access Point Setup Method)(P. 56)**
- Using the Manual Setup Method, connect with the WEP authentication method set to [Open System]. **Connecting to a Wireless LAN by Setting the Details (Manual Setup Method)(P. 58)**

When Using Shared Key Authentication

On the wireless LAN router, change the WEP authentication method to "Shared Key", and connect again.
For the setup method, see the manual of the wireless LAN router or contact the manufacturer.

Direct Connection terminated.

The connection with a mobile device was terminated.

Directly Connect Again.
Connecting a Mobile Device Directly to the Machine (Direct Connection)(P. 199)

Easy Connection via PC ended due to timeout The device will restart.

30 minutes have elapsed since the start of the cableless setup mode without connecting to the computer.

Restart the Machine, and Start Cableless Setup Mode Again.
Administrator privileges are required.

[Home] on the operation panel ▶ [Menu] ▶ [Preferences] ▶ [Network] ▶ [Easy Connection via PC] ▶ [Yes] ▶ start the settings on the computer

End of Cartridge Lifetime

The toner cartridges have reached the end of their lifetime.

It Is Recommended to Replace with New Toner Cartridges.
Press [Display Cartridge Replacement Steps] and replace the toner cartridges while following the instructions on the screen. **Replacing the Toner Cartridges(P. 416)**

ITB is near end of lifetime. Replcmt. is not yet needed.

It is nearing the time to replace the transfer belt (ITB) inside the machine.
You can continue use, but you are recommended to contact your dealer or service representative as soon as possible.
If the Problem Persists(P. 507)

Load paper.

Correct paper is not loaded.

Is Paper Loaded in the Paper Drawer or Multi-purpose Tray?
Load paper if not loaded. **Loading Paper(P. 111)**

Are You Using Appropriate Paper When Printing Reports, Lists, and Received Data?

- Check that the paper is usable, and replace it with paper to suit your purpose.
  Usable Paper(P. 21)
  Loading Paper(P. 111)
- Set the paper size and type correctly according to the loaded paper. **Specifying the Paper Size and Type(P. 124)**

Low Cartridge Level

It is nearing the time to replace the toner cartridges.

Prepare New Toner Cartridges, and Replace the Old Ones, as Needed.
When printing large printing jobs, it is recommended to press [Display Cartridge Replacement Steps] and replace the toner cartridges while following the instructions on the screen. **Replacing the Toner Cartridges(P. 416)**

To Continue Printing, Use the Procedure Below.

When I-Faxing

When receiving an I-Fax, the data may be saved to the memory of the machine without being printed to prevent printing text that is difficult to read or images that are difficult to see.

To continue printing, enable [Continue Printing When Amount in Cartridge Is Low].

Log in to Remote UI ▶ [Settings/Registration] ▶ [RX/Forwarding Settings] or [RX Settings] ▶ [Common Settings] ▶ [Edit] in [Common Settings] ▶ select the [Continue Printing When Amount in Cartridge Is Low] checkbox ▶ [OK]

On the operation panel, select [Menu] in the [Home] screen, and then select [Function Settings] to configure the settings. **[Continue Print. When Cart. Low](P. 378)**

* When this setting is enabled, the printing results may be light or faded.

NOTE

- You can manually specify when this message appears (when toner is low). **[Display Timing for Cart. Prep.](P. 304)**

Memory Full (Secure Print)

The memory is full with Secure Print data that has not been printed.

Print the Secure Print Data Saved to the Memory.

For details about how to print, see the procedure for when using the Secure Print function. **Step 2: Printing Secure Data by Entering a PIN or Password(P. 170)**

Memory Full (Skip Error)

The memory is full with data that has not been printed due to an error.

Cancel Printing of the Data with an Error, or Press [Skip Error] on the [Status Monitor] Screen.
Canceling Printing with the Operation Panel(P. 186)
Viewing the Print Job Status and Log(P. 187)

Memory Media Print is restricted.

The settings are configured to not print data from a USB memory device.

To Cancel Restriction, Change the [Memory Media Settings] Setting.
The machine must be restarted to apply the settings.

Log in to Remote UI in System Manager Mode ▶ [Settings/Registration] ▶ [Access Files Settings] ▶ [Memory Media Settings] ▶ [Edit] ▶ select the [Memory Media Print] checkbox ▶ [OK] ▶ restart the machine.

On the operation panel, select [Menu] in the [Home] screen, and then select [Function Settings] to change the setting. **[Memory Media Settings](P. 380)**

No reply from the destination.

The Ethernet cable may not be connected or there may be a problem with the switch.
Check the Ethernet cable and switch status.

No response from the host.

The machine is not connected correctly to the network.

Check the Settings of the Machine and Network, and Connect Again.

When Connected via Wireless LAN

Configure the settings correctly according to your usage environment. **Connecting to a Wireless LAN(P. 50)**

When Connected via Wired LAN

Check that the Ethernet cable is properly connected. **Connecting to a Wired LAN(P. 49)**

Paper jammed.

Paper jammed in the machine during printing.

Remove the Jammed Paper, and If Printing Does Not Resume Automatically, Try Printing Again.
Paper Jams(P. 431)

Paper Settings and Loaded Size Mismatch

The size of the paper loaded in the machine does not match that set on the operation panel or printer driver.

Match the Size of the Loaded Paper with the Paper Size Setting.

When Using the Loaded Paper

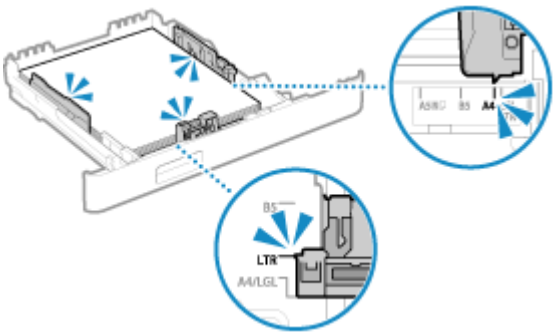
- Change the paper size setting on the operation panel to match the size of the loaded paper.
  Setting the Paper Size and Type for the Paper Drawer(P. 125)
  Setting the Paper Size and Type for the Multi-purpose Tray(P. 127)
- When printing from a computer, change the paper size setting on the printer driver to match the size of the loaded paper. **Printing from a Computer(P. 163)**

When Reloading Paper

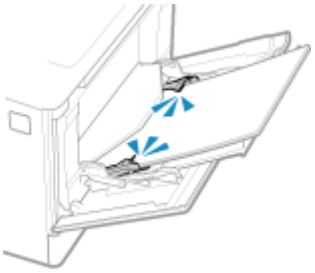
Load paper of the size set on the operation panel or printer driver. **Loading Paper(P. 111)**

Check That the Paper Guides Are Aligned with the Markings and Are Not Too Loose or Too Tight.

Paper Drawer



Multi-purpose Tray



Prepare cartridge.

It is nearing the time to replace the toner cartridges.

Prepare New Toner Cartridges, and Replace the Old Ones, as Needed.
When printing large jobs, it is recommended to replace the toner cartridges. **Replacing the Toner Cartridges(P. 416)**

To Continue Printing, Use the Procedure Below.

When I-Faxing

When receiving an I-Fax, the data may be saved to the memory of the machine without being printed to prevent printing text that is difficult to read or images that are difficult to see.

To continue printing, enable [Continue Printing When Amount in Cartridge Is Low].

Log in to Remote UI ▶ [Settings/Registration] ▶ [RX/Forwarding Settings] or [RX Settings] ▶ [Common Settings] ▶ [Edit] in [Common Settings] ▶ select the [Continue Printing When Amount in Cartridge Is Low] checkbox ▶ [OK]

On the operation panel, select [Menu] in the [Home] screen, and then select [Function Settings] to configure the settings. **[Continue Print. When Cart. Low](P. 378)**

* When this setting is enabled, the printing results may be light or faded.

NOTE

- You can manually specify when this message appears (when toner is low). **[Display Timing for Cart. Prep.](P. 304)**

Printing is restricted.

Printing is restricted due to Department ID Management.

Log In with a Department ID That Does Not Restrict Printing.
For the Department ID and PIN, contact the system administrator.

To Cancel Restriction, Change the [Restrict Functions] Setting of Your Department ID.

Log in to Remote UI in System Manager Mode ▶ [Settings/Registration] ▶ [User Management] ▶ [Department ID Management] ▶ select the Department ID to edit ▶ clear the [Restrict Color Print] and [Restrict Black & White Print] checkboxes ▶ [OK]

On the operation panel, select [Menu] in the [Home] screen, and then select [Management Settings] to change the setting. **[Department ID Management](P. 388)**

Problems resulting from the use of non-Canon cartridges are not covered under the warranty. The amount remaining in the cartridge cannot be displayed correctly.

The remaining amount of toner is not correctly displayed due to the use of a toner cartridge whose print quality cannot be guaranteed.

Replace with a New Toner Cartridge.
Replacing the Toner Cartridges(P. 416)

For optimum print quality, using Canon genuine toner cartridges is recommended. **List of Consumables(P. 421)**

Set the correct authentication information.

The authentication method or authentication information of IEEE 802.1X is not set correctly.

Set the Authentication Method and Authentication Information (Keys and Certificates, Password, CA Certificate) Correctly.
Setting IEEE 802.1X(P. 236)
Managing and Verifying a Key and Certificate(P. 238)

Set the information necessary for authentication.

The authentication method or authentication information of IEEE 802.1X is not set correctly.

Set the Authentication Method and Authentication Information (Keys and Certificates, Password, CA Certificate) Correctly.
Setting IEEE 802.1X(P. 236)
Managing and Verifying a Key and Certificate(P. 238)

The authentication server certificate has expired.

The server certificate sent from the RADIUS server has expired.

Check the Expiry Date of the RADIUS Server.
Setting IEEE 802.1X(P. 236)

The authentication server certificate is incorrect.

A CA certificate that supports the certificate of the authentication server is not registered to the machine.

Check the certificate information of the authentication server, and register a supported CA certificate.
Setting IEEE 802.1X(P. 236)
Registering a Key and Certificate or CA Certificate Obtained from an Issuing Authority(P. 251)

The computer is restricted.

Saving of scanned data to a computer is restricted due to Department ID Management.

To Cancel Restriction, Change the [Department ID Management] Setting.

Log in to Remote UI in System Manager Mode ▶ [Settings/Registration] ▶ [User Management] ▶ [Department ID Management] ▶ [Edit] ▶ select the [Allow Scan Jobs with Unknown IDs] checkbox ▶ [OK]

On the operation panel, select [Menu] in the [Home] screen, and then select [Management Settings] to change the setting. **[Department ID Management](P. 388)**

The encryption key is not set correctly. Check the encryption key settings.

The network key (encryption key) of the wireless LAN router (access point) is not configured correctly on the machine. Alternatively, the WEP authentication method of the machine does not match that of the wireless LAN router.

Reset the Network Key.
Check the network key of the wireless LAN router, and configure the settings correctly on the machine. **Connecting to a Wireless LAN(P. 50)**

Match the WEP Authentication Method on the Machine and Wireless LAN Router.
The machine may be set to Shared Key Authentication, and the wireless LAN router may be set to Open System Authentication. Change the WEP setting according to the authentication method you are using.

When Using Open System Authentication

Connect to the wireless LAN using either of the following methods:

- Connect with the access point setup method. **Connecting to a Wireless LAN by Searching for a Router (Access Point Setup Method)(P. 56)**
- Using the Manual Setup Method, connect with the WEP authentication method set to [Open System]. **Connecting to a Wireless LAN by Setting the Details (Manual Setup Method)(P. 58)**

When Using Shared Key Authentication

On the wireless LAN router, change the WEP authentication method to "Shared Key", and connect again. For the setup method, see the manual of the wireless LAN router or contact the manufacturer.

The memory is full.

Printing cannot be performed due to insufficient available memory. If there is data waiting to be printed, wait until the processing is completed.

Reduce the File Size or Divide the File.
Optimize the file to make it smaller, or divide the file and then print it.

The number of entered characters is incorrect or invalid characters are used.

The network key of the wireless LAN router (access point) is not configured correctly on the machine.

Reset the Network Key.
Check the network key of the wireless LAN router, and configure the settings correctly on the machine. **Connecting to a Wireless LAN(P. 50)**

Use Remote UI to set the information necessary for authentication.

The authentication method or authentication information of IEEE 802.1X is not set correctly.

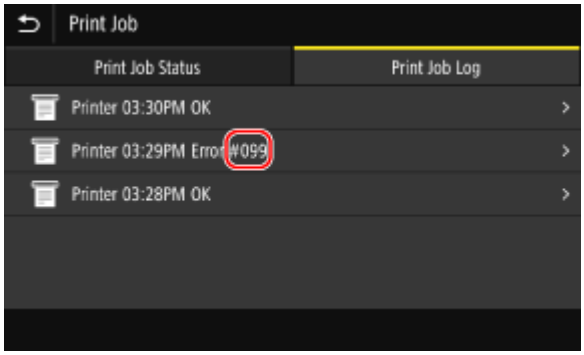
Check the IEEE 802.1X Setting, and Set This Correctly.
Check the following, and change the setting, as needed. **Setting IEEE 802.1X(P. 236)**

- The login name is specified correctly.
- At least one of the following checkboxes is selected: [Use TLS], [Use TTLS], and [Use PEAP].
- When using TLS, a key and certificate are registered.
- When using TTLS or PEAP, the user name and password are set correctly.

An Error Code Is Displayed

864Y-0AS

If printing cannot be performed, an I-Fax cannot be received, or another error occurs, an error code (three-digit number starting with "#") is displayed in the job log.



Select the error code from the list below, and check how to troubleshoot the problem.

#001 to #099
#037(P. 502) **#099(P. 502)**

#401 to #499
#408(P. 503)

#701 to #799
#701(P. 503) **#752(P. 503)** **#753(P. 503)** **#766(P. 503)**

#801 to #899
#802(P. 504) **#810(P. 504)** **#816(P. 504)** **#818(P. 504)** **#819(P. 504)** **#820(P. 504)** **#821(P. 504)** **#822(P. 505)** **#827(P. 505)** **#829(P. 505)** **#852(P. 505)** **#853(P. 505)** **#861(P. 506)** **#863(P. 506)**

#901 to #999
#934(P. 506) **#995(P. 506)**

NOTE

- If the problem persists even after trying the troubleshooting methods, contact your dealer or service representative. **If the Problem Persists(P. 507)**

#037

Printing could not be performed due to the file size.

Reduce the File Size or Divide the File.
Optimize the file to make it smaller, or divide the file and then print it.

#099

The job was canceled.
This does not indicate a malfunction. Perform the operation again, as needed.

#408

The USB memory device may have been removed, or the USB memory device was formatted with an unsupported file system.

Has the USB Memory Device Been Removed?
Confirm the orientation of the USB memory device, and insert it correctly into the machine. **Inserting and Removing a USB Memory Device(P. 135)**

Was the USB Memory Device Formatted with a Supported File System?
You can use a USB memory device with a FAT16 or FAT32 file system.

#701

Authentication could not be performed due to incorrect entry of the Department ID or PIN. Alternatively, the user attempted to perform an operation restricted with Department ID Management without entering the Department ID.

Enter the Correct Department ID and PIN.
If you lost your Department ID or PIN, contact the system administrator.

To Cancel Restriction, Change the [Department ID Management] Setting.

Log in to Remote UI in System Manager Mode ▶ [Settings/Registration] ▶ [User Management] ▶ [Department ID Management] ▶ [Edit] ▶ select the [Allow Print Jobs with Unknown IDs] checkbox ▶ [OK]

On the operation panel, select [Menu] in the [Home] screen, and then select [Management Settings] to change the setting. **[Department ID Management](P. 388)**

#752

The POP3 server name is not configured correctly, or the machine is not connected correctly to the network.

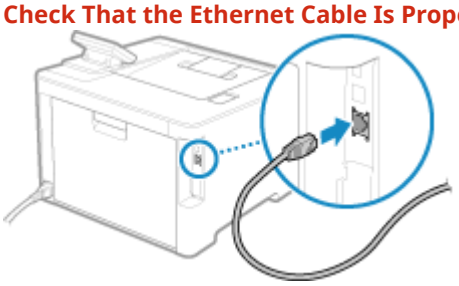
Configure the POP3 Server Name Correctly.
Preparing to Receive and Print I-Faxes(P. 161)

Check the Network Status and Settings.
If the machine is not connected to a network, reconfigure the network settings.
Checking the Network Status and Settings(P. 79)
Setting Up the Network(P. 46)

#753

The machine was unable to connect to the network due to a disconnected Ethernet cable.

Check That the Ethernet Cable Is Properly Connected.



#766

The certificate has expired.

Renew the certificate, or use a certificate that is not expired.
Managing and Verifying a Key and Certificate(P. 238)

Are the current date and time on the machine correct?
Check the date and time setitngs. If the settings are not correct, set the time zone, and then set the current date and time. **Setting the Date and Time(P. 275)**

#802

The POP3 server name is not set correctly.

When Receiving an I-Fax, Correctly Set the POP3 Server Name.
Preparing to Receive and Print I-Faxes(P. 161)

#810

The machine cannot connect to the POP3 server, or the information of the POP3 server is not set correctly.

Check the Network Status and Settings.
If the machine is not connected to a network, reconfigure the network settings.
Checking the Network Status and Settings(P. 79)
Setting Up the Network(P. 46)

Set the information of the POP3 server correctly.
Preparing to Receive and Print I-Faxes(P. 161)

Check the Status of the POP3 Server.
Check that the POP3 server is operating properly on the network. For details about the POP3 server status, contact your provider.

#816

The maximum number of pages that can be printed for the department has been reached.

Check the Usage, and Reset the Count to Zero.
Confirming Usage by Department ID(P. 222)

#818

The received data is in a format that cannot be printed.
Have the sender change the file format and resend the file.

#819

The received data has invalid MIME information and cannot be processed.
Have the sender check the settings and resend the data.

#820

The received data has invalid BASE64 or uuencode data and cannot be processed.
Have the sender check the settings and resend the data.

#821

The received data has a TIFF analysis error and cannot be processed.
Have the sender check the settings and resend the data.

#822

The file format is unsupported, and printing cannot be performed.

Save using a supported file format.
The following file formats can be printed from a USB memory device:

- JPEG (DCF, Exif2.21 or earlier, JFIF)
- TIFF (JPEG, MH, MR, MMR compression)
- PDF

#827

The received data includes unsupported MIME information and cannot be processed.
Have the sender check the settings and resend the data.

#829

The received data exceeds the maximum size that can be received by the machine.

Have the Sender Check and Resend the Data.

When Receiving an I-Fax

The machine cannot receive an e-mail that exceeds 24 MB. Have the sender reduce the size of the e-mail to 24 MB or less and resend it.

#852

The power of the machine turned OFF for some reason.
Make sure the power plug is firmly inserted into an outlet.

#853

Printing or Secure Print failed for some reason.
If the operation was canceled when print data was being sent from a computer to the machine, try printing again.
Otherwise, check the following:

Are You Printing a Large Job?
The data volume may have exceeded the processing capacity of the machine. Reduce the number of pages to print, or print when there is no print data being printed or waiting to be printed.

Is the Data to Be Printed Corrupted?
If the data is corrupted or otherwise damaged, fix the data.

Are You Trying to Print a PDF File from a USB Memory Device?
When printing a password-protected PDF file, enter the password before printing.

[Home] screen on the operation panel ▶ [Memory Media Print] ▶ select the file to print ▶ [Apply] ▶ [Set PDF Details] ▶ [Password to Open Document] ▶ enter the password ▶ [Apply]

Are You Trying to Print with Secure Print?
The machine may be configured not to use the Secure Print function. Try either of the following methods:

- Enable Secure Print.

  The machine must be restarted to apply the settings.

Log in to Remote UI in System Manager Mode ▶ [Settings/Registration] ▶ [Secure Print Settings] ▶ [Edit] ▶ select the [Secure Print] checkbox ▶ [OK] ▶ restart the machine

On the operation panel, select [Menu] in the [Home] screen, and then select [Function Settings] to configure the settings. **[Secure Print](P. 338)**

- Print without using the Secure Print function.

Was the Secure Print Data Left for a While?
If printing of the Secure Print data is not performed after a set period of time, the data is deleted from the memory automatically. If the save period elapses and the data is deleted automatically, try printing with Secure Print again.

* You can change the save period (time until the data is deleted). **Changing the Time Period That Print Data with a PIN (Secure Data) Is Saved(P. 171)**

#861

You are using an unsupported printer driver, or the data you are trying to print is corrupted.

Use the printer driver of the machine, and try printing again.
Printing from a Computer(P. 163)

Is the Data to Be Printed Corrupted?
If the data is corrupted or otherwise damaged, fix the data.

#863

An error occurred, preventing printing.

Restart the Machine, and Then Print the Data Again.
Restarting the Machine(P. 90)

#934

The job was deleted by the Auto Delete Suspended Jobs function.

Resolve the Error That Caused the Job to Be Suspended.
Resolve the error, and try printing again.

* Disable the Auto Delete Suspended Jobs function, or change the time until the data is automatically deleted. **[Auto Delete Suspended Jobs](P. 343)**

#995

Receiving of a waiting job was canceled.
Try receiving again, as needed.

If the Problem Persists

864Y-0AU

If the problem persists even after trying the troubleshooting methods, contact your dealer or service representative.

IMPORTANT

Do not disassemble or repair the machine yourself.

- Disassembling or repairing the machine yourself may void the warranty.

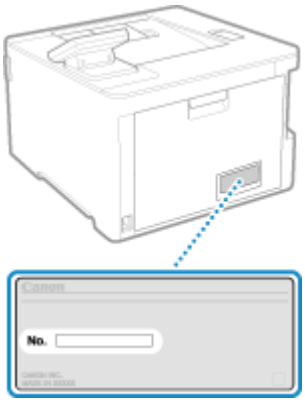
Checks Before Contacting Us

- Product name (C1333P)
- Dealer purchased from
- Details of the problem (such as operation details and their results)
- Serial number

How to Look Up the Serial Number

[Home] screen on the operation panel ▶ [Status Monitor] ▶ [Device Information] ▶ [Serial Number]

- You can also check this information using Remote UI from a computer. **Managing the Machine from a Computer (Remote UI)(P. 276)**
- You can also check this information on the label on the back of the machine.



Appendix

Appendix 509
- **Manuals of the Machine** 510
- **Using the User's Guide** 511
- **Manual Display Settings** 514
- **Operation Examples When Using a Computer** 515
- **Environmental Information, Regulations, and Standards** 525
- **Notice** 527
- **Trademarks and Copyrights** 528
- **Third-party Software** 530

Appendix

864Y-0AW

In this chapter, you can view the manuals of the machine and the basic operations required when using the machine with a computer.

Manuals of the Machine

Manuals are provided according to your purpose.

Manuals of the Machine(P. 510)

The User's Guide (this manual) contains information on all functions of the machine and specifications as well as how to maintain the machine. You can search for specific information and change the text size and layout.

Using the User's Guide(P. 511)
Manual Display Settings(P. 514)

Basic Operations When Using with a Computer

You must set up a computer to use the machine from the computer and view information set on the machine from the computer. The operations are introduced using Windows and macOS operation examples.

Operation Examples When Using a Computer(P. 515)

Other Information

Environmental Information, Regulations, and Standards(P. 525)
Notice(P. 527)
Trademarks and Copyrights(P. 528)
Third-party Software(P. 530)

Manuals of the Machine

864Y-0CC

The manuals below are provided with the machine. Use these according to your purpose.
Click on the icon to display the corresponding manual (PDF).

Important Safety Instructions
This contains required information to prevent injury and accidental damage to property.



Setup Guide
This explains the process from unpacking the machine to setting it up so that it is ready to use.



User's Guide (this manual)
This describes all the functions of the machine in detail. It also contains the specifications and describes how to maintain the machine. The User's Guide is displayed in a Web browser.
Using the User's Guide(P. 511)

NOTE

- For details about the drivers, software, and manual of the Application Library, see the online manual site.
  https://oip.manual.canon/

Using the User's Guide

864Y-0AY

The User's Guide (this manual) contains information on all functions of the machine and specifications as well as how to maintain the machine.
You can use the User's Guide to find useful information through the contents and search function.
* Click [ ] or [ ] at the top of the screen to change between contents and search keyword display.

Screens and Illustrations(P. 511)
Symbols(P. 511)
Key and Button Indicators(P. 512)
Search Function(P. 512)
Operating Environment(P. 513)

NOTE

- The User's Guide describes the various functions of all model series including the machine. You can view a table indicating which functions and options are supported for each model. **Supported Functions and Options(P. 3)**

Screens and Illustrations

In the User's Guide, unless otherwise stated, the following are used in the screens and illustrations.

Model
C1333P

Toner Cartridges
Canon Toner T12

Computer Operating System
Windows 10

macOS 11

- The screens may vary depending on the model.
- The operations and screens may vary depending on the computer operating system.
- The screens are subject to change due to updates of the drivers and software.

Symbols

The warnings and cautions are also listed in the Important Safety Instructions supplied with the machine. See this for more information. **Manuals of the Machine(P. 510)**

WARNING Indicates a warning concerning operations that may lead to death or serious personal injury if not performed correctly. To ensure that you use the machine safely, always observe these warnings.

CAUTION Indicates a precaution for preventing the risk of personal injury or property damage other than a product fault due to improper use of the machine. To ensure that you use the machine safely, always observe these cautions.

Indicates an operation that must not be performed. Read these items carefully, and make sure not to perform the described operations.

IMPORTANT

Indicates important requirements and restrictions for security and data protection as well as precautions that should be observed. Be sure to read these items to avoid malfunction, fault, or property damage due to incorrect operation.

NOTE

Indicates a clarification of an operation, or contains additional explanations for a procedure.

Key and Button Indicators

The operation panel keys and buttons displayed on the screen are indicated as follows:

Operation Panel Keys
Indicated with an icon.

Example: Home key



Buttons Displayed on the Operation Panel and Computer Screen
Enclosed in square brackets [ ].

Example:
[C]
[Cancel] ▶ [Yes]
[The memory media can be safely removed.]

Search Function

1 Click [ ] at the top of the screen.

➡ The search keyword input field is displayed at the top left of the screen.

2 Enter a keyword, and click [ ] or press the [Enter] key on the computer.

- Separate multiple keywords with spaces to search for pages that include all keywords.
- Enclose keywords in double quotation marks (") to search for pages that only contain complete matches including spaces.

3 Click the search result to view the page.

- Click [ ] to show or hide the search results.
- Click [ ] to display the contents.

Operating Environment

The User's Guide can be viewed in the following operating environments:

Windows
Internet Explorer 9 or later

Microsoft Edge

Firefox

Firefox ESR

Chrome*1

macOS
Safari

Firefox

Chrome*1

Linux
Firefox

iOS
Safari*1

Android
Chrome*1

*1 Only available when viewing at the online manual site.

Manual Display Settings

864Y-0C0

Operation Examples When Using a Computer

864Y-0C1

When using the machine from a computer, you must configure the settings of the computer according to the function you are using. In addition, you may need the computer information to view the information set on the machine. In this case, use the operation examples below to check the required settings and information on the computer.

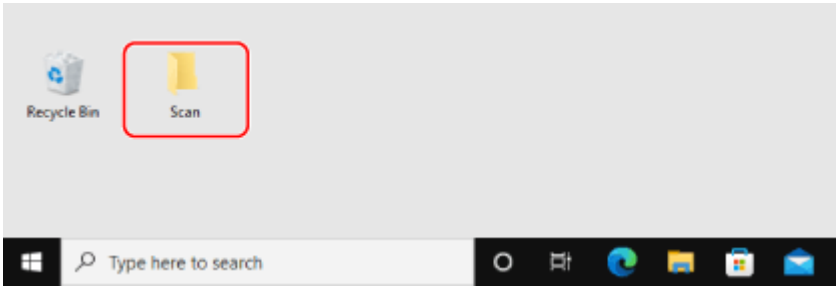
Creating a Shared Folder(P. 515)
Enabling Network Discovery(P. 517)
Displaying a Shared Printer in the Print Server(P. 517)
Viewing the System Information of the Computer(P. 518)
Viewing the Network Connection Information of the Computer(P. 520)
Viewing the Printer Port(P. 522)
Viewing Two-way Communication(P. 523)
Printing a Test Page(P. 523)

Creating a Shared Folder

When Using Windows(P. 515)
When Using macOS(P. 516)

■When Using Windows

1 Create a folder in any location (such as Desktop).



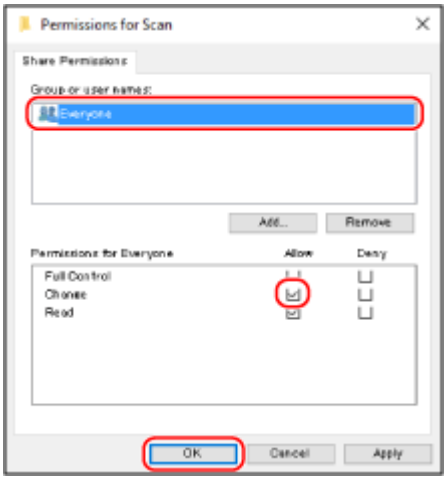
2 Right-click the created folder, and click [Properties].

3 On the [Sharing] tab, click [Advanced Sharing].

➠ The [Advanced Sharing] screen is displayed.

4 Select the [Share this folder] checkbox, and click [Permissions].

5 Configure the access privilege.



1 In [Group or user names], select [Everyone].

2 In [Permissions], select the [Allow] checkbox in [Change].

3 Click [OK].

6 Click [OK] ▶ [Close].

➠ The created folder can be used as a shared folder.

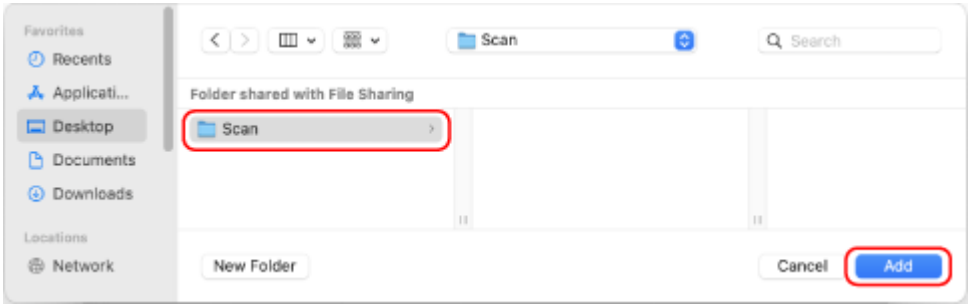
■When Using macOS

1 Click [ ] ▶ [System Preferences] ▶ [Sharing].

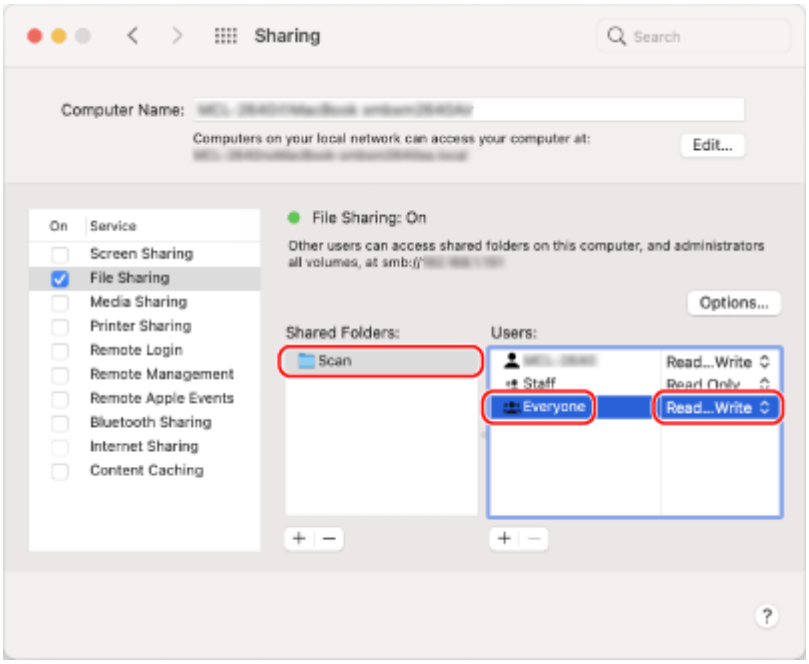
➠ The [Sharing] screen is displayed.

2 Select the [File Sharing] checkbox, and click [+] in [Shared Folders].

3 Create a folder in any location (such as Desktop), and click [Add].



4 Configure the access privilege.



1 In [Shared Folders], select the created folder.

2 In [Users], select [Everyone] ▶ [Read & Write].

5 Close the screen.

➠ The created folder can be used as a shared folder.

Enabling Network Discovery

1 Right-click [⊞] (Start), and click [Network Connections].

➠ The [Status] screen is displayed.

2 Click [Network and Sharing Center] ▶ [Change advanced sharing settings].

➠ The [Advanced sharing settings] screen is displayed.

3 In [Network discovery], select [Turn on network discovery], and click [Save changes].

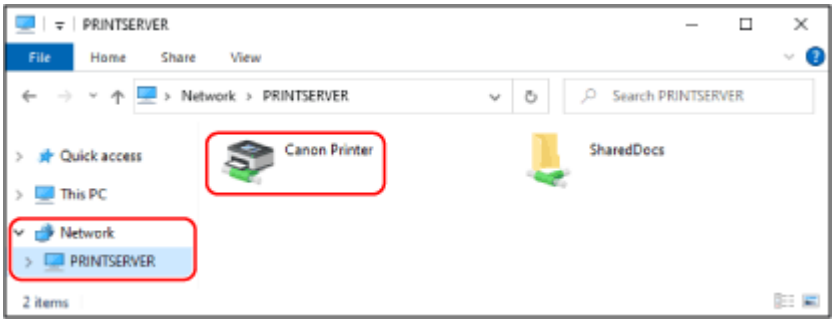
Displaying a Shared Printer in the Print Server

When Using Windows(P. 518)
When Using macOS(P. 518)

■When Using Windows

1 Right-click [⊞] (Start), and click [File Explorer].

2 In [Network], select the print server to display the shared printer.



If nothing is displayed in [Network], enable network discovery. **Enabling Network Discovery(P. 517)**

■When Using macOS

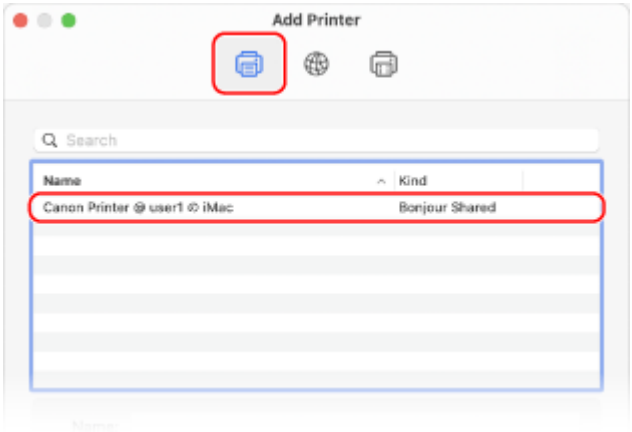
1 Click [ ] ▶ [System Preferences] ▶ [Printers & Scanners].

➠ The [Printers & Scanners] screen is displayed.

2 Click [+] at the bottom left.

➠ The [Add] screen is displayed.

3 Click [ ], to display the shared printer.



Viewing the System Information of the Computer

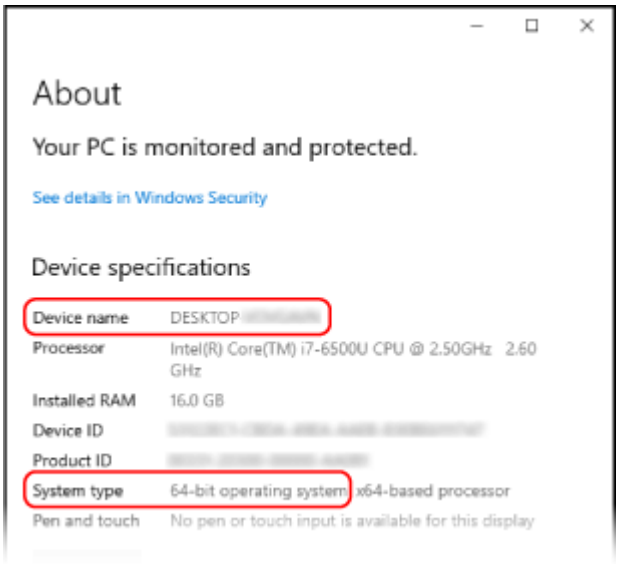
When Using Windows(P. 519)
When Using macOS(P. 519)

■When Using Windows

1 Right-click [⊞] (Start), and click [System].

➠ The [About] screen is displayed.

2 In [Device specifications], view the computer name and operating system version.



- The computer name is displayed in [Device name].
- The operating system version is displayed in [System type].
  If the computer has a 32-bit operating system, "32-bit Operating System" is displayed.
  If the computer has a 64-bit operating system, "64-bit Operating System" is displayed.

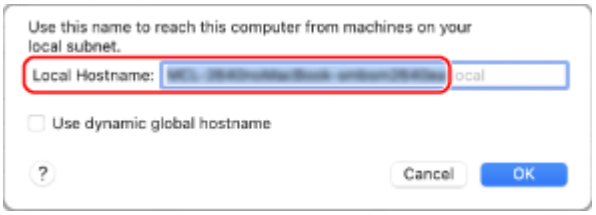
■When Using macOS

1 Click [ ] ▶ [System Preferences] ▶ [Sharing].

➠ The [Sharing] screen is displayed.
The name displayed in [Computer Name] on the [Sharing] screen may not be usable on the network. Use the following procedure to view the computer name used on the network.

2 Click [Edit].

3 In [Local Hostname], view the computer name.



Parts displayed in gray are not included in the computer name.

4 **Click [Cancel].**

Viewing the Network Connection Information of the Computer

When Using Windows(P. 520)
When Using macOS(P. 521)

■When Using Windows

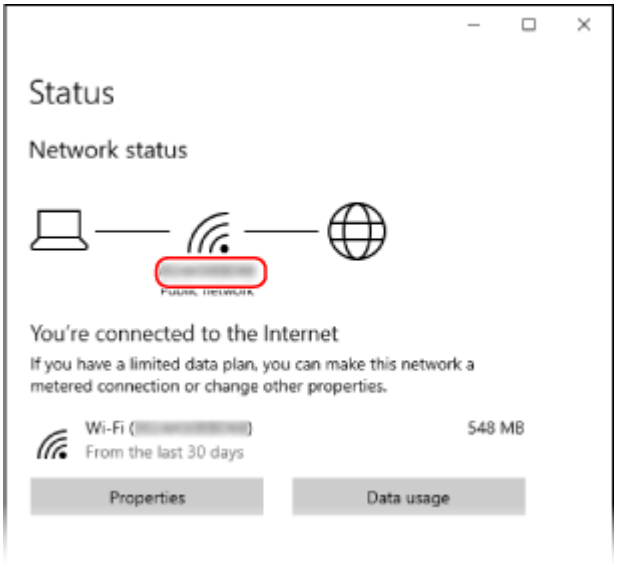
1 **Right-click [⊞] (Start), and click [Network Connections].**

➠ The [Status] screen is displayed.

2 **View the network connection information.**

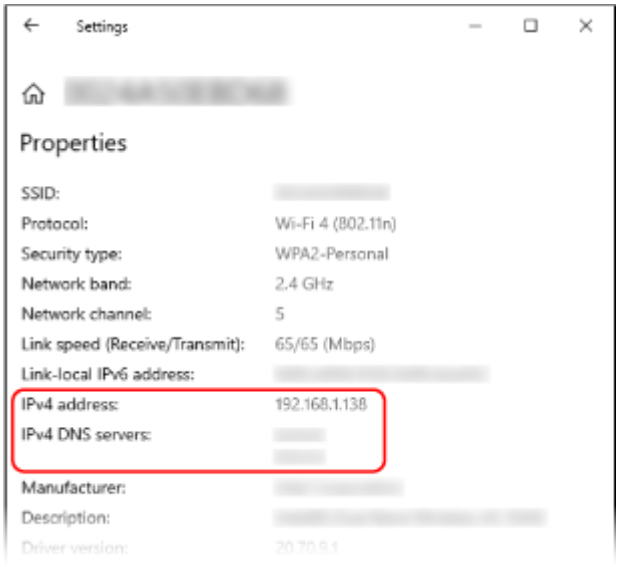
■Viewing the SSID of the Wired LAN

View the SSID in [Network status].



■Viewing the IP Address and DNS Server

1. Click [Properties] for the connected network.
2. In [Properties], view the IP address and DNS server.



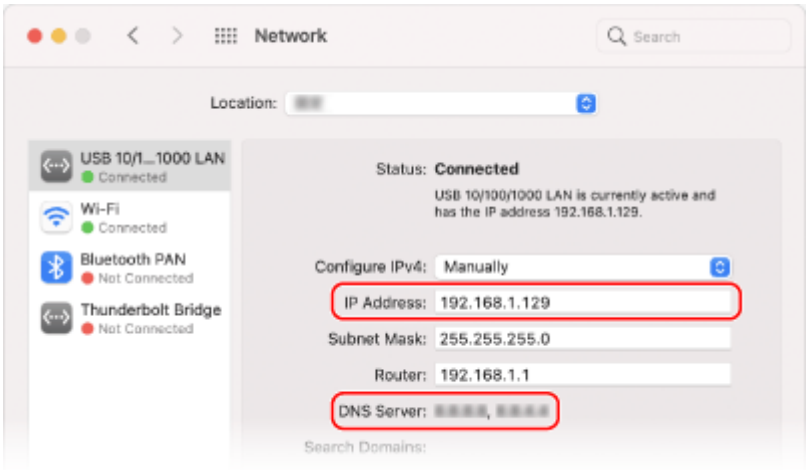
■When Using macOS

1 Click [ ] ▶ [System Preferences] ▶ [Network].

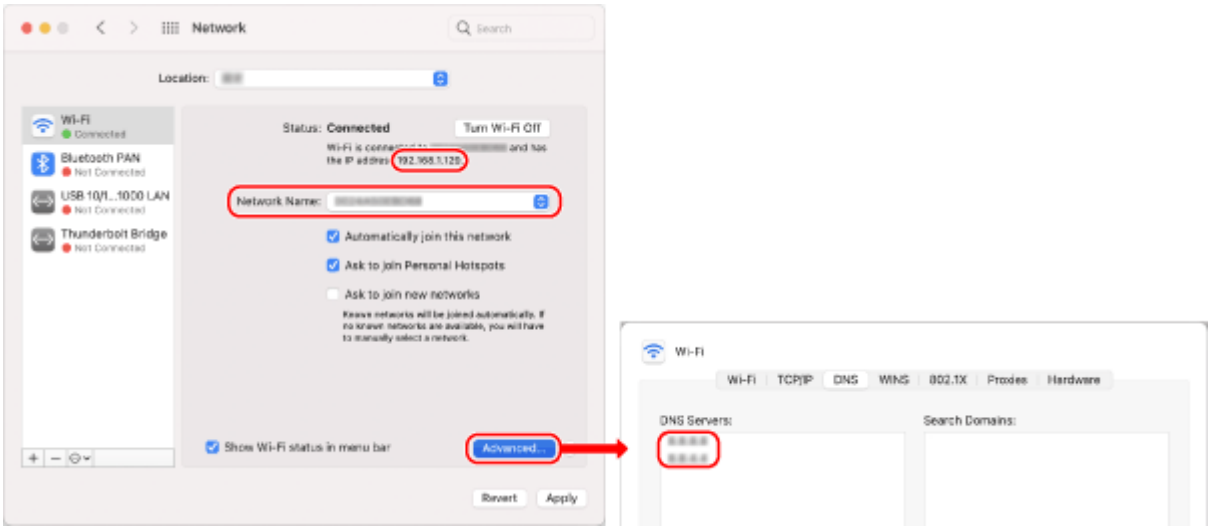
➠ The [Network] screen is displayed.

2 View the IP address, DNS server, and other information.

■For Wired LAN



■For Wireless LAN



- View the SSID in [Network Name].
- View the IP address in [Status].
- Click [Advanced], and view the DNS server on the [DNS] tab.

Viewing the Printer Port

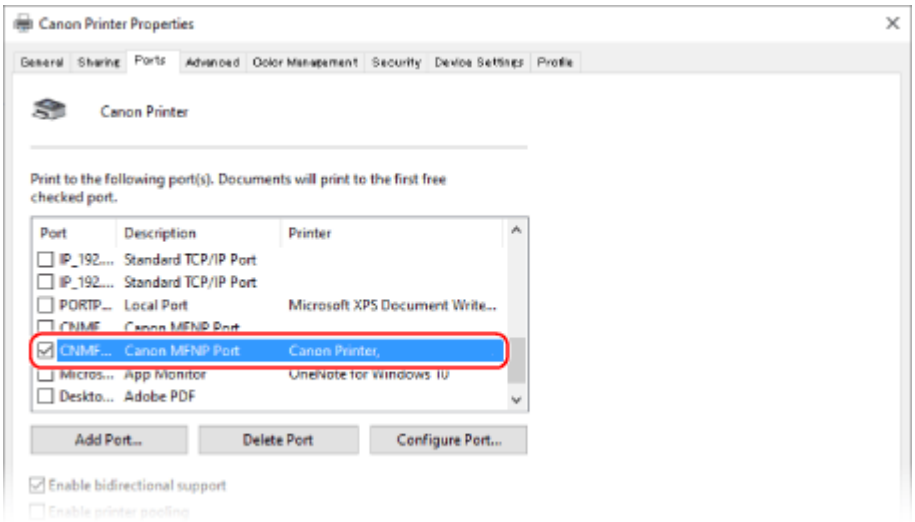
1 **Click [ ] (Start) ▶ [ ] (Settings) ▶ [Devices] ▶ [Printers & scanners].**

➠ The [Printers & scanners] screen is displayed.

2 **Click the printer driver of the machine ▶ [Manage] ▶ [Printer properties].**

➠ The printer driver properties screen is displayed.

3 **On the [Ports] tab, view the port being used.**



NOTE

If the IP Address of the Machine Is Changed

- You must add a new port. **Adding a Port(P. 149)**

Viewing Two-way Communication

1 Click [ ] (Start) ▶ [ ] (Settings) ▶ [Devices] ▶ [Printers & scanners].

➡ The [Printers & scanners] screen is displayed.

2 Click the printer driver of the machine ▶ [Manage] ▶ [Printer properties].

➡ The printer driver properties screen is displayed.

3 On the [Ports] tab, check that the [Enable bidirectional support] checkbox is selected.

Printing a Test Page

Required Preparations

- Load A4 size paper in the paper drawer. **Loading Paper in the Paper Drawer(P. 112)**

When Using Windows(P. 523)
When Using macOS(P. 523)

■When Using Windows

1 Click [ ] (Start) ▶ [ ] (Settings) ▶ [Devices] ▶ [Printers & scanners].

➡ The [Printers & scanners] screen is displayed.

2 Click the printer driver of the machine ▶ [Manage] ▶ [Printer properties].

➡ The printer driver properties screen is displayed.

3 On the [General] tab, click [Print Test Page].

➡ When the print data is sent correctly, a test page is printed from the machine.

■When Using macOS

1 Click [ ] ▶ [System Preferences] ▶ [Printers & Scanners].

➠ The [Printers & Scanners] screen is displayed.

2 Select the machine, and click [Open Print Queue].

3 From the [Printer] menu, click [Print Test Page].

➠ When the print data is sent correctly, a test page is printed from the machine.

Environmental Information, Regulations, and Standards

864Y-0C2

■IPv6 Ready Logo

The protocol stack included in this product has obtained the IPv6 Ready Logo Phase-2 established by the IPv6 Forum.

■Product Information required by COMMISSION REGULATION (EU) No.801/2013 amending Regulation (EC) No.1275/2008

Power consumption of a product in networked standby mode where wired network ports are connected and all wireless network ports are activated (if available at the same time).

Model Name	Power consumption of the product in networked standby mode
C1333P	3.0 W or less

NOTE

- The above value(s) are the actual values for a single machine, chosen arbitrarily, and may therefore differ from the value(s) of the actual machine used. Optional network ports are either not connected or not activated in the measurement.

■EU WEEE and Battery Directives



Only for European Union and EEA (Norway, Iceland and Liechtenstein)

These symbols indicate that this product is not to be disposed of with your household waste, according to the WEEE Directive (2012/19/EU), the Battery Directive (2006/66/EC) and/or national legislation implementing those Directives. If a chemical symbol is printed beneath the symbol shown above, in accordance with the Battery Directive, this indicates that a heavy metal (Hg = Mercury, Cd = Cadmium, Pb = Lead) is present in this battery or accumulator at a concentration above an applicable threshold specified in the Battery Directive.
This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE) and batteries and accumulators. Improper handling of this type of waste could have a possible impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. Your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources.
For more information about the recycling of this product, please contact your local city office, waste authority, approved scheme or your household waste disposal service or visit www.canon-europe.com/sustainability/approach/.

■ Environmental Information

Reducing your environmental impact while saving money

Power Consumption and Activation Time
The amount of electricity a device consumes depends on the way the device is used. This product is designed and set in a way to allow you to reduce your electricity costs. After the last print it switches to Ready Mode. In this mode it can print again immediately if required. If the product is not used for a time, the device switches to its Power Save Mode. The devices consume less power (Watt) in these modes.
If you wish to set a longer Activation Time or would like to completely deactivate the Power Save Mode, please consider that this device may then only switch to a lower energy level after a longer period of time or not at all. Canon does not recommend extending the Activation Times from the optimum ones set as default.

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The Energy Star® programme is a voluntary scheme to promote the development and purchase of energy efficient models, which help to minimise environmental impact.
Products which meet the stringent requirements of the Energy Star® programme for both environmental benefits and the amount of energy consumption will carry the Energy Star® logo accordingly.

Paper types
This product can be used to print on both recycled and virgin paper (certified to an environmental stewardship scheme), which complies with EN12281 or a similar quality standard. In addition it can support printing on media down to a weight of 64g/m².
Lighter paper means less resources used and a lower environmental footprint for your printing needs.

Duplex printing (Standard duplex printing products only)
Duplex printing capability enables you to print on both sides automatically, and therefore helps to reduce the use of valuable resources by reducing your paper consumption.
The duplex function has been auto enabled during the set up and driver installation and Canon strongly recommends that you do not disable this function. You should continue to use the duplex function to reduce the environmental impact of your work with this product at all times.

■ When disposing of used toner cartridges

- To protect the environment and make more effective use of resources, Canon promotes the recovery and recycling of used toner cartridges. Please cooperate in the recovery of toner cartridges (resource reuse). For details on resource reuse, see the Canon website:
  global.canon/ctc
  When disposing of toner cartridges, pack them in their original packaging to prevent toner dispersal and dispose of the cartridges in accordance with your local government instructions.

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864Y-0C3

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Name of Software page
1.Adobe PostScript 3 2
2.Adobe PDF Scan Library 9
3.expat 12
4.HarfBuzz 13
5.Lua 14
6.LuaSocket 15
7.LuneScript 16
8.Net-SNMP 17
9.OpenSSL 29
10.XKCP 33

1.Adobe PostScript 3

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10.XKCP

Implementation by the Keccak Team, namely, Guido Bertoni, Joan Daemen,
#Michael Peeters, Gilles Van Assche and Ronny Van Keer,
#hereby denoted as "the implementer".

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