SAMSUNG

LED TV
Installation manual



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Model Serial No.

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

Introduction

This TV B2B (Business to Business) model is designed for hotels or the other hospitality businesses, supports a variety of special functions, and lets you limit some user (guest) controls.

Operational Modes

This TV has two modes: Interactive and Stand-alone mode.

- Interactive mode: In this mode, the TV communicates with and is fully or partially controlled by a connected Set Back Box (SBB) or Set Top Box (STB) provided by a hospitality SI (System Integration) vendor. When the TV is initially plugged in, it sends a command that attempts to identify the SSB or STB connected to it. If the TV identifies the SBB or STB and the SBB or STB identifies the TV, the TV gives full control to the SBB or STB.
- Stand-alone mode: In this mode, this TV works alone without an external SBB or the STB.

The TV has a Hotel (Hospitality) Menu that lets you easily set its various hospitality functions. Please see pages 22 to 26.

The Menu also lets you activate or de-activate some TV and hospitality functions so you can create your optimal hospitality configuration.

Still image warning

Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, panorama or 4:3 format images, stock or news bars or crawls) on the screen. Displaying still pictures continually can cause uneven screen wear, which will affect image quality. To reduce the chance that this effect will occur, please follow the recommendations below:

- Avoid displaying the same TV channel for long periods.
- Always try to display a full screen image.
- Reduce brightness and contrast to help prevent the occurrence of after-images.
- Use all TV features designed to reduce image retention and screen burn-in. Refer to the proper user manual section for details.

Ensuring Proper Ventilation

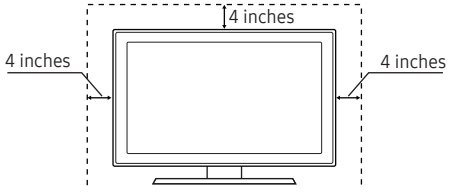
When you install the TV, maintain the distances shown below between the TV and other objects (walls, cabinet sides, etc.) to ensure proper ventilation.

Failing to do so may result in a fire or problems with the TV caused by an increase in its internal temperature.

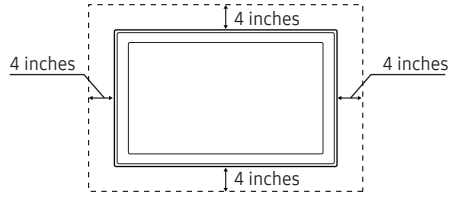
✎ When using a stand or wall-mount, use parts provided by Samsung Electronics only.

– If you use parts provided by another manufacturer, it may cause a problem with the product or cause the product to fall, leading to serious injury.

Installation with a stand.



Installation with a wall-mount.



Additional Information

✎ The appearance of the TV and its accessories may differ from the illustrations in this manual, depending on the TV.

✎ Be careful when you touch the TV if it is on or has been on for a period of time. Some parts can be hot.

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ENGLISH

Symbols Used in this Manual

TOOLS



Indicates that you can press the TOOLS button on the remote control to use this function.



NOTE



One-Touch Button

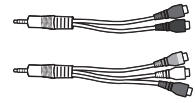
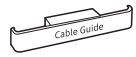
Accessories

✎ Please make sure the following items are included with your LED TV. If any items are missing, contact your dealer.

✎ The items' color and shape may vary, depending on the model.

✎ The parts for the stand are listed under Stand Components on the following page.

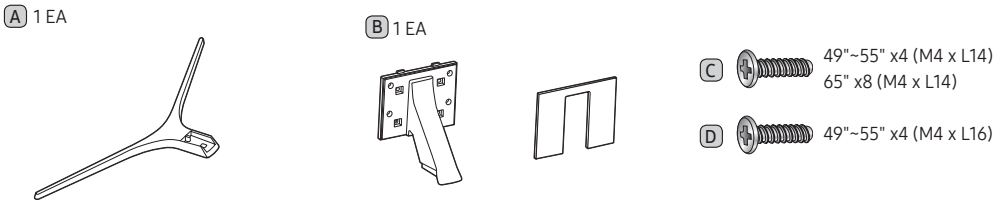
List of Parts

		
Remote Control (AA59-00817A) & Batteries (AAA x 2)	Samsung Smart Control (BN59-01181N) & Batteries (AA x 2)	Power Cord
		
Safety Guide / Quick Setup Guide / Regulatary Guide (Not available in all locations)	Data Cable (depending on the model) (BN39-00865B, BN39-01011E)	COMPONENT IN / AV IN Adapter
		
Wall mount Adapter	Cable Guide	

Installing the LED TV Stand

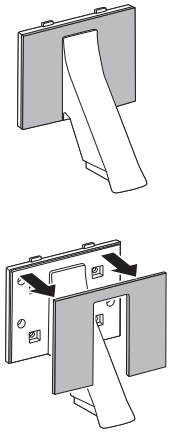
Components

When installing the stand, use the provided components and parts.

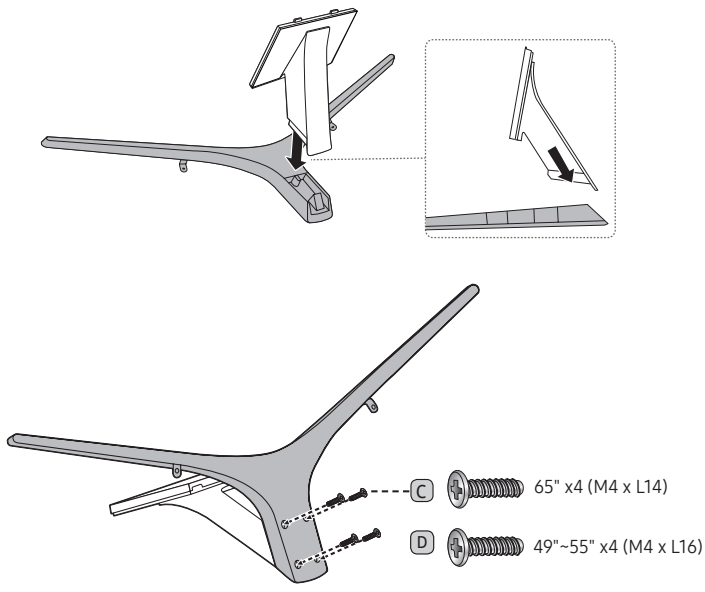


Stand	Guide Stand	Screws

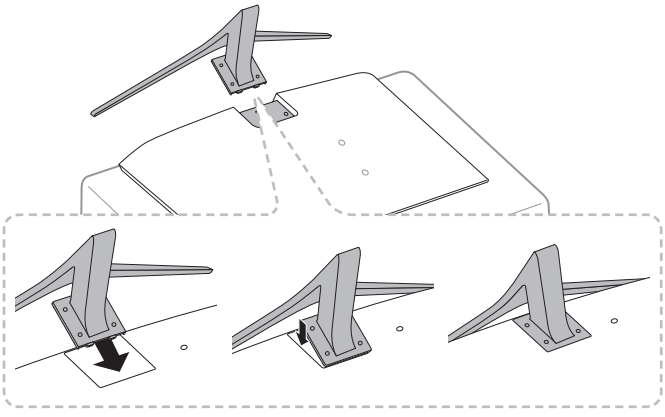
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❷

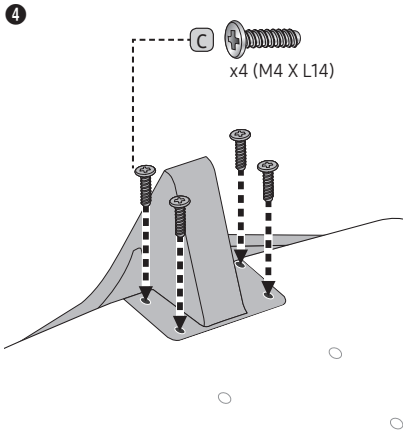


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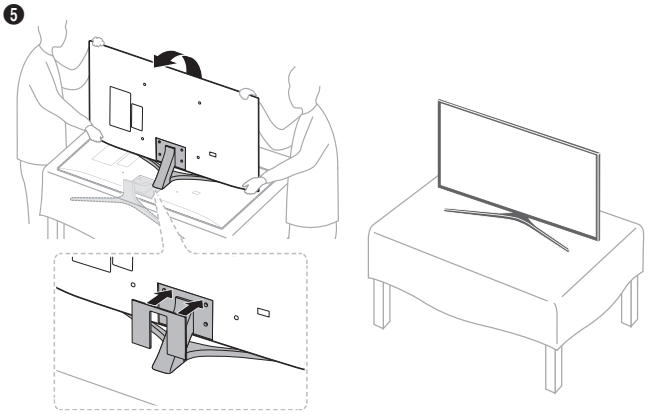


- Place a soft cloth over the table to protect the TV, and then place the TV on the cloth screen-side down.
- Insert the Stand Guide into the slot on the bottom of the TV.
- Slide and assemble it to the end line in the direction of arrow.

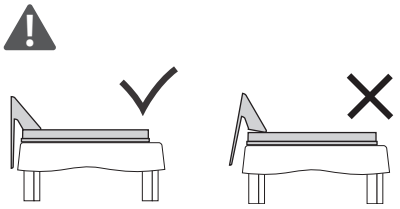
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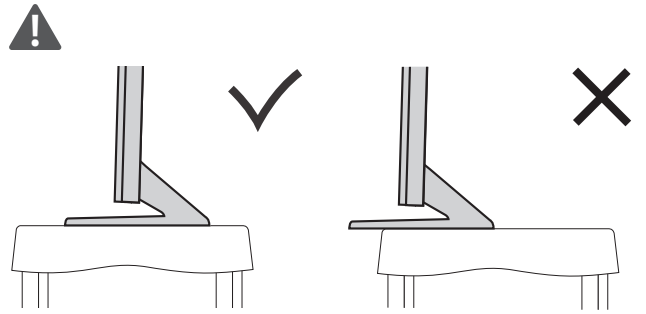


❺



✎ Progress the assembly of screw in the manual's order.





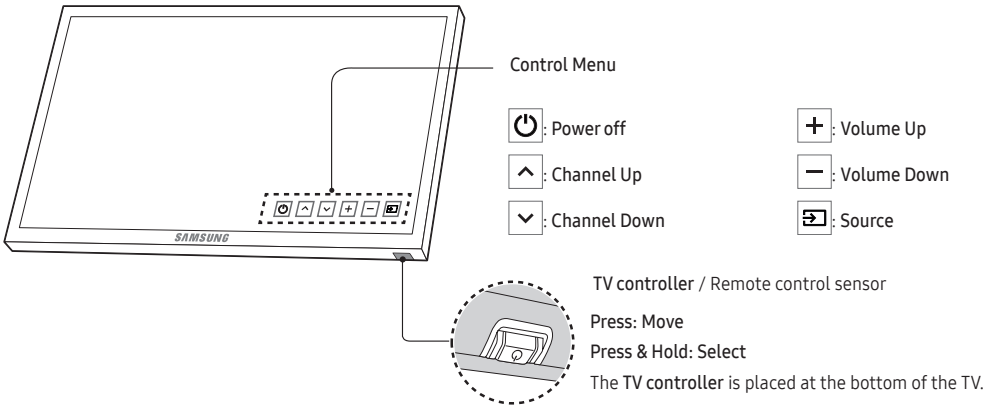
✎ NOTE

– Make sure to distinguish between the front and back of each component when assembling them.
– Make sure that at least two persons lift and move the TV.

Using the TV's Controller

✎ The color and shape of the TV Controller may vary depending on the model.

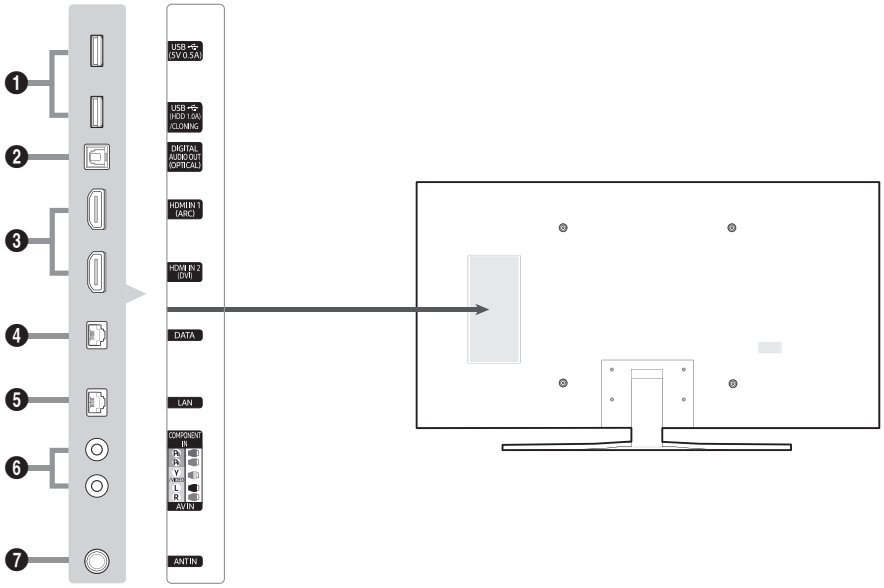
✎ The TV's Controller, a small joy stick like button on the bottom right side of the TV, lets you control the TV without the remote control.



Standby mode

Your TV enters Standby mode when you turn it off, and continues to consume a small amount of electric power. To be safe and to decrease power consumption, do not leave your TV in standby mode for long periods of time (when you are away on vacation, for example). It is best to unplug the power cord.

The Connection Panel



✎ Whenever you connect an external device to your TV, make sure that power on the TV and the device is turned off.

✎ When connecting an external device, match the color of the connection terminal to the cable.

❶ USB (5V 0.5A), USB (HDD 1.0A) / CLONING

– Connector for software upgrades and Media Play, etc.

– Service connection.

❷ DIGITAL AUDIO OUT (OPTICAL)

Connects to a Digital Audio component.

❸ HDMI IN 1 (ARC), 2 (DVI)

Connects to the HDMI jack of a device with an HDMI output.

✎ No separate sound connection is needed for an HDMI to HDMI connection. HDMI connections carry both audio and video.

✎ Use the HDMI IN 2 (DVI) jack for a DVI connection to an external device. Use a DVI to HDMI cable or DVI-HDMI adapter (DVI to HDMI) for the video connection and the PC/DVI AUDIO IN jacks for audio. Some DVI or HDMI devices may not or should not need a DVI AUDIO IN connection for audio.

✎ It is recommended that the external device of the HDMI 1.3 or 1.4 version will be used with this TV. If you meet the compatible problem like no sound or the abnormal screen or etc with the device of the HDMI 1.2 version, contact to the Samsung customer care center. Refer to page 52 for the information of the Samsung customer care center.

✎ Use a cable shorter than 10 feet (3m) to get the best UHD viewing quality.

❹ DATA

– Used to support data communication between the TV and the SBB or STB.

– Connects using RJ-12 TV type plugs.

❺ LAN

Connect to a wired LAN using CAT 7 cable.

❻ COMPONENT / AV IN 1

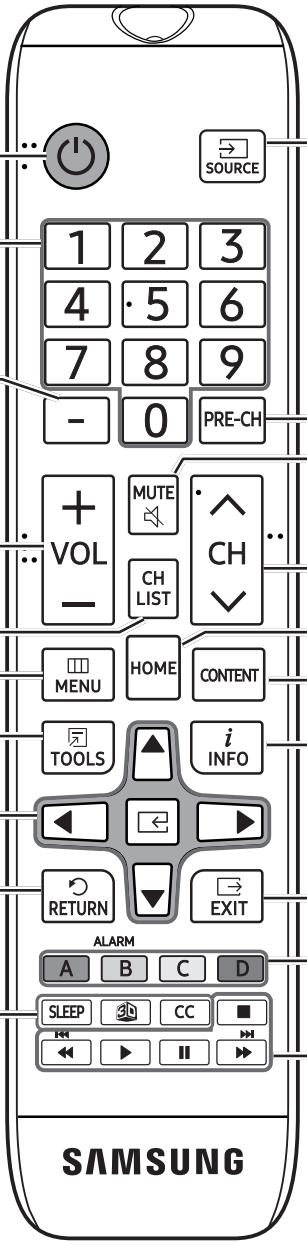
- Use to connect to Component video / audio devices such as DVD players and AV (Composite) devices such as VCRs.
- Connect audio cables to "R-AUDIO-L" on your TV and the other ends to corresponding audio out jacks on A/V or Component devices.
- The COMPONENT jack is also used as the VIDEO jack.
- Connect component video cables (not supplied) to the component jacks ("PR", "PB", "Y") on the rear of your TV and the other ends to corresponding component video out jacks on a DVD player. Match the colors on the jacks and cables.
- If you want to connect both a Set-Top Box and a DVD player, you should connect the Set-Top Box to the DVD and connect the DVD to the component jacks ("PR", "PB", "Y") on your TV.
- The PR, PB and Y jacks on your component devices (DVD) are sometimes labeled Y, B-Y and R-Y or Y, Cb and Cr.
- For AV devices, connect RCA audio cables (not supplied) to "R - AUDIO - L" on the rear of the TV set and the other ends to corresponding audio out jacks on an external device.
- When your are connecting a composite (AV) device to AV IN 1 [Y/VIDEO], connect the video cable (Yellow) to the AV IN 1 [Y/VIDEO] jack (Green/Yellow) .

❼ ANT IN

- To view television channels correctly, the TV must receive a signal from one of the following sources:
- An outdoor antenna / A cable television system / A satellite receiver

The Remote Control

✎ This remote control has Braille points on the Power, Channel, and Volume buttons and can be used by visually impaired customers.



Turns the TV on and off.

Display and select the available video sources.

Press to directly access channels.

Press to select additional digital channels being broadcast by the same station. For example, to select channel '54-3', press '54', then press '-' and '3'.

Return to the previous channel.

Cut off the sound temporarily.

Adjust the volume.

Change channels.

Display the channel list on the screen.

Switch to the **HOME** Screen.

Display the main on-screen menu.

Displays **My Contents**, **Watch TV** and **Source** icons on the TV screen.

Quickly select frequently used functions.

Press to display channel and TV information on the TV screen.

Select on-screen menu items and change menu values.

Return to the previous menu.

Exit the menu.

Buttons used in Channel list, Media Play menu, etc.

B button: Enter the hour your want the TV to turn on.

Use these buttons in the **Media Play** and **Anynet+** modes.

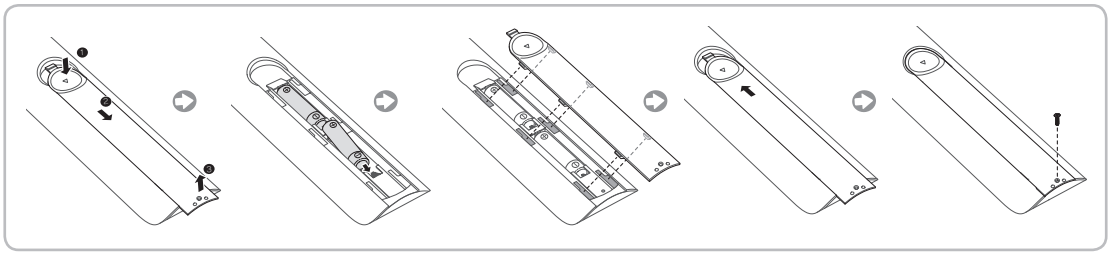
SLEEP: Sets the Sleep Timer.

: Turns the 3D function on or off. (Not available)

CC: Controls the caption decoder.

Installing batteries (Battery size: AAA)

Match the polarity of the batteries to the symbols in the battery compartment.

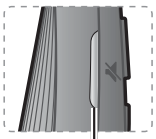


After you have installed the batteries, use a screwdriver to screw in the screw that holds the battery cover closed.

✎ NOTE

- Use the remote control within 23 feet of the TV.
- Bright light may affect the performance of the remote control. Avoid using near fluorescent lights or neon signs.
- The color and shape of the remote may vary depending on the model.

Buttons and Functions



: Cuts off the sound temporarily.

MIC: Use the microphone with the **Voice Control** and Voice functions.
– The **Voice Control** function can be affected by unclear pronunciation, voice level, or surrounding noise.

Turns the TV on and off.

SEARCH: Run search function. (Not available)
KEYPAD: Displays the On-Screen Remote.
SOURCE: Displays and lets you select video sources.
VOICE: Takes your voice commands and lets you enter text using your voice.



Changes channels.

Adjusts the volume.

Touch pad
Place a finger on the touch pad and move the Samsung Smart Control. The pointer on the screen moves in the direction you moved the Samsung Smart Control.
Press the touch pad to run the focused item.
Press and hold the touch pad to display the Context-Sensitive Menus.
▲ ▼ ◀ ▶: Moves the cursor, selects the on-screen menu items, and changes the values seen on the TV's menu.

RETURN: Returns to the previous menu.
SMART HUB: Brings up **Smart Hub** applications.
– To exit an application quickly, press the ⌂ button.
GUIDE: Displays the **EPG** (Electronic Program Guide).

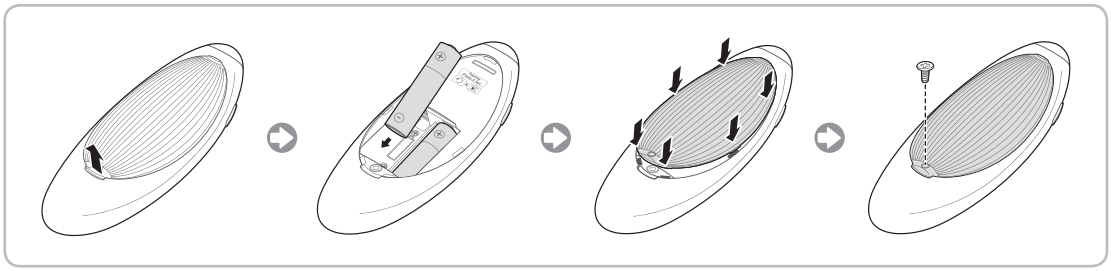
Use these buttons with a specific feature and according to the directions on the TV's screen.

MENU: Displays the menu on the screen.
HOME: Press to display the **HOME** menu or the REACH menu or the SINC menu.

3D: Turns the 3D function on or off. (Not available)
SLEEP: Press to set when TV will be turned off after a preset period of time.
CC: Controls the caption decoder and displays captions on the screen.
ALARM: Press to set when TV will be turned on for the alarm.

Installing Batteries into the Samsung Smart Control

To use the Samsung Smart Control, insert the batteries into the device referring to the figure below.



Gently pull on the battery cover's notch and then remove the cover completely once it comes loose.

Insert 2 AA alkaline batteries, making sure to align the positive and negative polarities correctly.

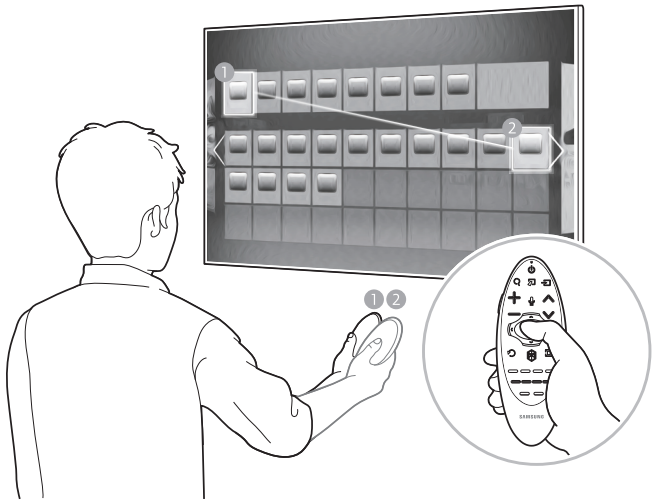
Using the Samsung Smart Control Motion Function to Operate the TV

The Samsung Smart Control has a motion sensor (gyro sensor) that lets you control the TV easily by moving the Samsung Smart Control and using it much like a cordless mouse.

Place a finger on the Samsung Smart Control's touch pad, and then move the Samsung Smart Control. A pointer appears on the screen. Move the Samsung Smart Control, and pointer moves on the screen in the direction you moved the Samsung Smart Control and the same distance. Highlight an item on the screen with the pointer, and then press the touch pad to select it.

You can also move the Samsung Smart Control in the same fashion to scroll scrollable screens up and down.

– If you stop using the Motion Function, even momentarily, put your finger on the touch pad, and then move the Samsung Smart Control to re-start the function.



Using the Touch Pad and the Directional Buttons

– In the TV's menu, navigate to **Support** › **Smart Control Tutorial** to view a tutorial that shows how to use the touch pad.
– If the touch pad's sensitivity is too high or low, navigate to the **System** › **Smart Control Settings** menu, and then select the **Touch Sensitivity** option to change the touch pad sensitivity.

Moving the Focus or Pointer



Press the directional buttons (up, down, left, and right) to move the focus, pointer, or cursor in the direction you want.

Entering the Menu / Selecting an Item



To enter a menu or select an item, highlight the item or the menu title, or move the pointer over it, and then press the touch pad.

Displaying a Context-sensitive Menus in Smart Hub



In Smart Hub, highlight an item, and then press and hold the touch pad. The context-sensitive menu for the item pops up.

– The context-sensitive menu may vary depending on the item you selected.

Changing the Smart Hub Panel



On a Smart Hub panel, drag left or right on the touch pad. The previous or next Smart Hub panel appears.

Scrolling on the Web Browser

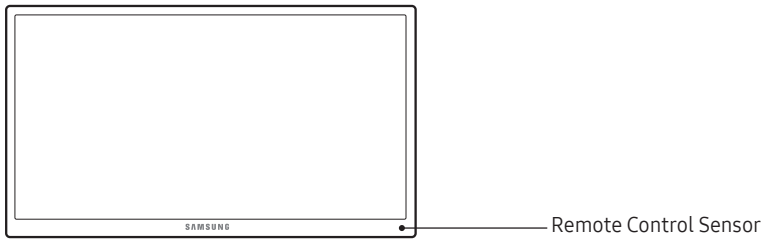


When you are using the web browser, drag up or down on the touch pad to scroll the web screen.

Reconnecting the Samsung Smart Control to the TV

If the Samsung Smart Control stops operating or works abnormally, try replacing the batteries. If the problem persists, pair the Samsung Smart Control and TV again.

1. Move to within a foot of the TV, and then aim the Samsung Smart Control at the TV's remote control receiver.

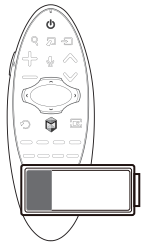


2. Press the RETURN button and GUIDE button simultaneously for 3 seconds.
3. The connection icon appears on the screen. A few moments later, the connected icon appears. The Samsung Smart Control is paired to the TV.



The Low Battery Alarm Window

If the Samsung Smart Control's batteries become low, the Low Battery Alarm appears on the screen. When the Alarm appears, replace the batteries. We recommend using alkaline batteries for longer operating life.



<Low battery Alarm Icon>

Displaying and Using the On-Screen Remote

Press the **KEYPAD** button on the Samsung Smart Control to display the On-Screen Remote on the TV's screen. Use the On-Screen Remote to enter numbers, control content playback, and use the features and functions of the TV, just like a real remote. Use the directional buttons on the Samsung Smart Control to move the cursor on the On-Screen Remote. Press the touch pad on the Samsung Smart Control to select.

– The On-Screen Remote buttons may vary depending on the TV features or functions you are using.

Button	Description
1 2 3 4 5 6 7 8 9 – 0 Pre-CH	Lets you switch channels by entering channel numbers directly. Select **Pre-CH** to return to the previous channel.
● ▶ ❚❚ ■ ◀◀ ▶▶ ⏮ ⏭	Controls the playback of video, photo, or music files from all sources, and the playback of media content on external devices (for example, a Blu-ray player).
A, **B**, **C**, **D**	Use these colored buttons to access additional options specific to the feature in use.
TOOLS	Press to display the Tools menu while you are watching TV. The Tools menu gives you easy access to frequently used functions. The functions listed are context-sensitive and vary depending on how you are currently using the TV.
INFO	Shows information about the current digital broadcast program or content.
MENU	Displays the TV's menu on the screen.
3D	Lets the 3D source displayed.
PIP	Lets you display video from an external device or computer on the main screen and a TV broadcast in a picture-in-picture window.
CC	Select to turn subtitles on or off.
P.Size	Changes the picture size.
SLEEP	This function automatically shuts off the TV after a preset period of time.
P.Mode	Lets you select the Picture Mode.
Web Browser	Launches the Web Browser.
ALARM	Set the alarm time when TV will automatically be turned on.
⚙	**Move To The Right** / **Move To The Left**: Moves the Onscreen Remote on the screen. **Large Size** / **Normal Size**: Resizes the Onscreen Remote on the screen. Alternatively, navigate to the **System** › **Smart Control Settings** menu and select and set the **Onscreen Remote Size** option. **Touch Sensitivity**: Lets you change the touch pad sensitivity. Alternatively, navigate to the **System** › **Smart Control Settings** menu and select and set the **Touch Sensitivity** option. **Cancel**: Select to close a pop up menu.

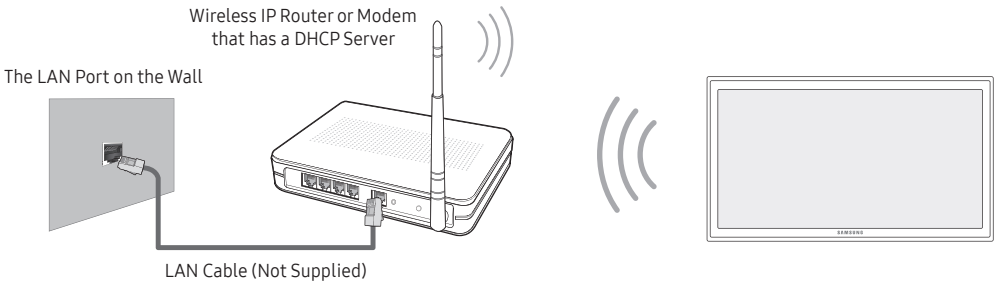
Connecting to the Network

You can set up your TV so that it can access the SMART TV applications through your local area network (LAN) using a wired or wireless connection.

✎ After you have “physically” connected your TV to your network, you must configure the network connection to complete the process. You can configure the connection after the Initial Setup process, through the TV’s menu.

Network Connection - Wireless

Connect the TV to the Internet using a standard wireless router or modem.



Network Connection - Wireless

- This Smart TV supports the IEEE 802.11a/b/g /n communication protocols. Samsung recommends using IEEE 802.11n. Otherwise, when you play video over a network connection, the video may not play smoothly.
- To use a wireless network, the TV must be connected to a wireless router or modem. If the wireless router supports DHCP, the TV can use a DHCP or static IP address to connect to the wireless network.
- Select a channel that is not currently in use for the wireless router. If the channel set for the wireless router is currently being used by another device, the result is usually interference and/or a communications failure.
- Most wireless networks have an optional security system. To enable a wireless network's security system, you need to create a security key using characters and numbers, and then enter that key into the router through its menu. You then must enter this security key into any other devices you want to connect to the wireless network.

Network Security Protocols

The TV only supports the following wireless network security protocols:

- Authentication Modes: WEP, WPAPSK, WPA2PSK
- Encryption Types: WEP, TKIP, AES

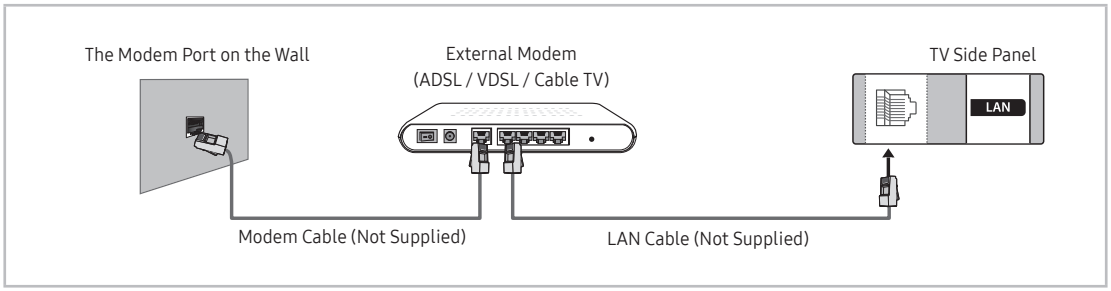
In compliance with the newest Wi-Fi certification specifications, Samsung TVs do not support WEP or TKIP security encryption in networks running in the 802.11n mode.

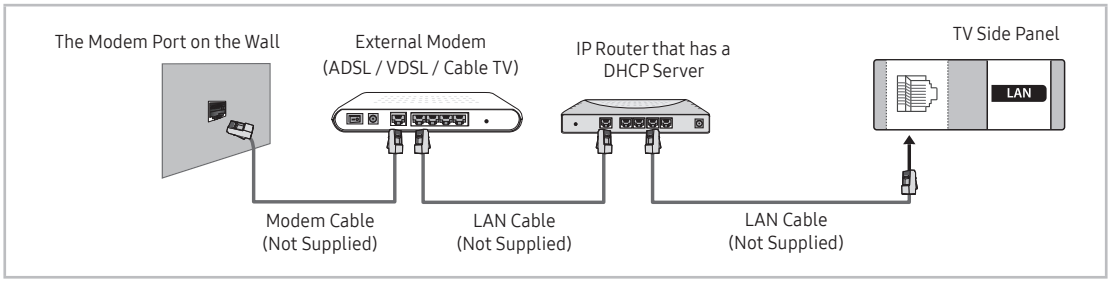
If the wireless router supports WPS (Wi-Fi Protected Setup), you can connect the TV to your network using PBC (Push Button Configuration) or a PIN (Personal Identification Number). WPS automatically configures the SSID and WPA key settings.

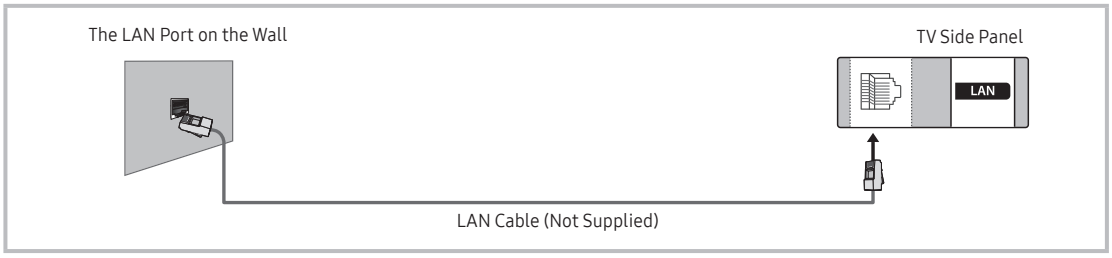
Your Smart TV cannot connect to uncertified wireless routers.

Network Connection - Wired

There are three main ways to connect your TV to your network using cable, depending on your network setup. They are illustrated below:



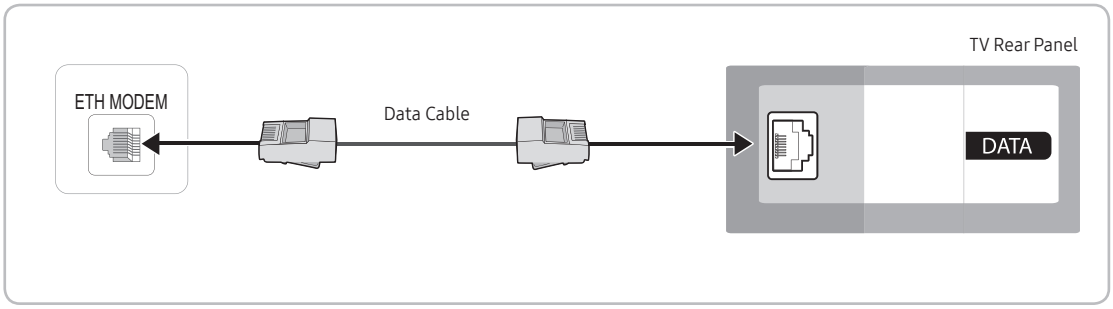




✎ The TV does not support network speeds less than or equal to 10Mbps.

✎ Use Cat 7 cable for the connection.

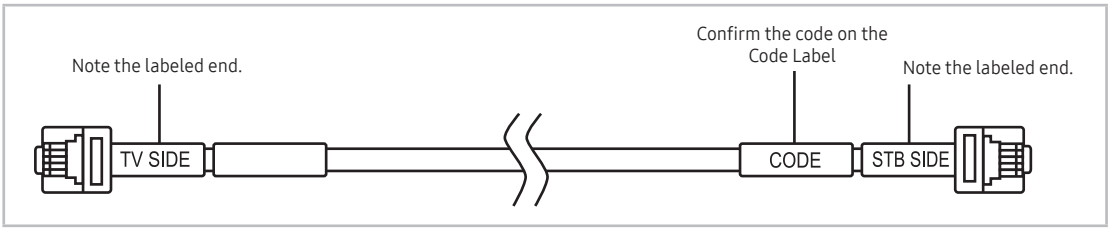
Connecting the TV to an SBB or STB

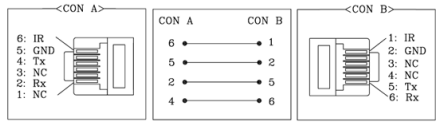
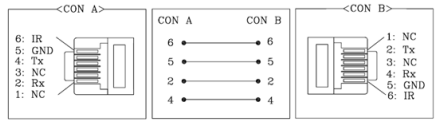
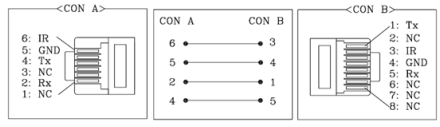
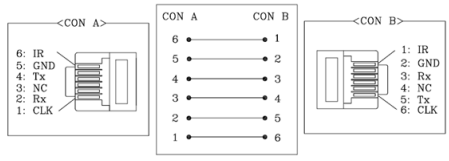


1. Connect the **DATA** jack of the TV to the ETH MODEM jack of the STB (SBB) with the Data cable.
   ✎ The "ETH MODEM" jack name that you connect the Data Cable to may differ depending on the SBB or STB type.

List of Hospitality SI Vendors and Compatible Data Cables Supplied with the TV

- Confirm you are using the correct data cable for your SI vendor. Refer to the code label on the data cables.
- Contact your nearest dealer or your SI Vendor to buy the data cable not included in the TV.



SI Vendor	Cable code	Pin assign	Remark
Samsung OCC Enseo Guest-Tek	BN39-00865B		Provided
NXTV	BN39-01011B		
nStreams	BN39-01110A		
Sonifi	BN39-01011E		Provided

✎ Operation Specification of Data Cable(RJ12) : TTL

Setting the Hotel Option Data

To let you control how the TV functions when in Hotel mode, the TV has two Hotel mode menus, the Stand-alone mode menu and the Interactive mode menu. The menu items that differ between the modes are listed below.

Menu items in the Stand-alone mode only:

- SI Vendor : Smoovie
- REACH Server and its submenus.

Menu items in the Interactive mode only:

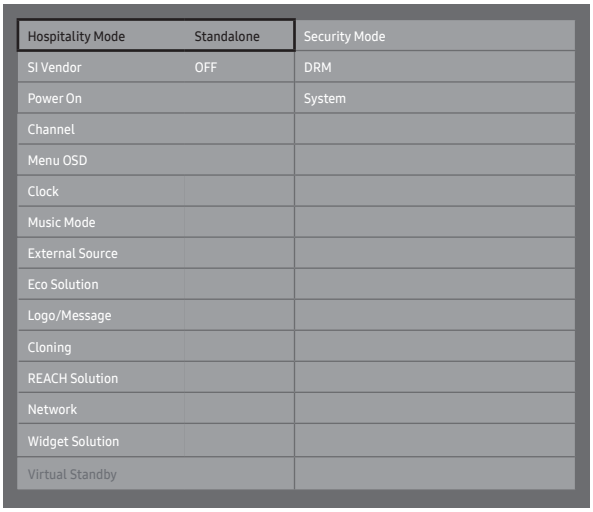
- SI Vendor: Samsung and other vendors.

All other items appear in both modes.

To access the menus, press MUTE → 1 → 1 → 9 → ENTER↵ on your Samsung remote.

After a menu appears, follow these general directions to navigate and change values:

- Use the Up and Down arrow buttons on the Samsung remote to move from menu item to menu item.
- Press the ENTER↵ or Left or Right arrow buttons to select a menu item. The screen displays that menu item only.
- Press the Left or Right arrow button to change a value. The Right arrow button increases numerical values. The Left arrow button decreases numerical values.
- When the screen is displaying one menu item, you can press the Up or Down arrow button to display the next or previous menu item.
- Press the RETURN or MENU button to exit the current menu item and go to a higher menu level or the Main menu.
- To exit a Hotel mode menu, turn off the TV, and then turn it on again. Any changes you made are saved except changes to SI Vendor. For changes to SI Vendor, you must turn the TV off, wait until the Standby light glows steadily, then unplug the TV, wait for the Standby LED to go off, and then plug the TV in again.



Above: The Hotel mode menu

To change menus between the interactive mode and the standalone mode, follow the steps below :

1. Highlight the Hospitality Mode menu item in the top left corner of the menu.
2. Press the left or right arrow button on the Samsung remote. Only the Hospitality Mode menu item is displayed.
3. Press the left or right arrow button to change the Hospitality Mode item from Standalone to Interactive or from Interactive to Standalone.
4. Press the Return or Menu button on the remote. The entire menu re-appears with your selection displayed in the Hospitality Mode field.

✎ After you have set the values in one TV, you can clone those values to multiple TVs. See USB Cloning on page 29.

Menu Items

To Enter this menu: Press the MUTE → 1 → 1 → 9 → ENTER↵ buttons in order.
To exit from this menu: Power Off (or Power Off and unplug if you have changed SI Vendor), and then turn on again. Any changes you made are saved.

Hotel TV Function		Description
Category	Item	
Hospitality Mode	Hospitality Mode	Select Hospitality mode. • Interactive mode: TV works with an SI STB or SBB. • Standalone mode : TV works alone, without an SI STB or SBB.
SI Vendor	SI Vendor	• Interactive mode: Samsung / OCC / MTI / Nstreams / Enseo / Cardinal / Guestek / SeaChange / MDC / Innvue • Standalone mode: OFF / Smoovie / SSCP
Power On	Power On Channel	Set the default values that will be applied when the TV is turned. • User Defined: Lets you set Power On Channel and Channel Type manually. See Power On Channel and Channel Type below. • Last Saved: If you select this item, when the TV is turned on, it displays the channel it was displaying when it was turned off.
	Power On Channel Num	When the TV is turned on, it switches automatically to this channel.
	Power On Channel Type	• Select channel band: AIR (analog air band), DTV (digital air band), CATV (analog cable band), CDTV (digital cable band).
	Power On Volume	• User Defined: Lets you set the Power On Volume manually. See Power On Volume below. • Last Saved: When the TV is turned on, it returns to the volume that had been set when the power had been turned off.
	Power On Volume Num	The TV turns on with this Volume Level in Stand Alone Hospitality mode.
	Min Volume	The minimum Volume Level the user can set in Stand Alone Hospitality mode.
	Max Volume	The maximum Volume Level the user in Stand Alone Hospitality mode.
	Power On Source	Select the input source the TV displays when turns on.
	Power On Option	Determines the TV's state when power returns after a power failure or after you have unplugged the TV and then plugged it in again. • Last Option: Returns to its last Power state. If it was in Stand-by, it returns to Standby. If it was on, it turns on. • Power ON: When the power returns, the TV turns on. • Standby: When the power returns, the TV enters the Standby mode.
Channel	Channel Setup	Gives you direct, immediate access to some of the Channel menu functions on the user Channel menu such as Auto Program, Antenna selection, etc.
	Channel Editor	The Channel Editor lets you edit the channels stored in the TV's memory. Using Channel Editor you can: • Change the channel numbers and names, and sort the channels in your desired channel number order. • Apply the video mute to channels you select. The video mute blanks out the video from a channel and outputs only the sound while displaying a speaker icon on the screen. The Channel Editor also lets you view information about each channel easily, without your having to display each channel directly.
	Mixed Channel Map	This Feature enables showing/browsing all antenna type (Air/Cable or Satellite) channels at the same time. • ON: When ON, guests can access the complete Channel Map irrespective of the selected antenna type. The Channel list will also populate Air as well Cable type channels. • OFF: When OFF, guest can access the Channel Map corresponding to the selected antenna type [AIR/CABLE or Satellite] only. The Channel list/Editor will only show the selected antenna type channels.
	Dynamic SI	• ON: Check the DTV Programme channel number. (the TV channel editor is inaccessible) • OFF: Do not check the DTV Programme channel number. (the DTV channel editor is accessible, but additional channel Programme number update is not supported)
	Mychannel	Enable or disable the My Channel feature.
	Genre Editor	Edith the genre for channels. (Available when My Channel is On)

Hotel TV Function		Description
Category	Item	
Menu OSD	Picture Menu Lock	Enable or disable the Picture Menu.
	Menu Display	• ON: The Main Menu is displayed. • OFF: The Main Menu is not displayed.
	Tools Display	• ON: The Tools Menu is displayed. • OFF: The Tools Menu is not displayed.
	Channel Menu Display	• OFF:The Home Menu is not displayed. • ON:The Home Menu is displayed.
	Panel Button Lock	Turning the front panel (local key) operations on/off. • Unlock: Unlocks panel key. • Lock: Locks panel key. • OnlyPower: The Panel key can only be used to turn the power on or off.
	Home Menu Display	• OFF:The Home Menu is not displayed. • ON:The Home Menu is displayed.
	Home Menu Editor	Edit Home Menu .
	Home Menu Auto Start	• ON:The Home Menu is Auto Start. • OFF:The Home Menu is not Auto Start.
	BT Auto Remove Device List	• Delete Device List in when power on or off. • ON: Connection history is removed in BT Music Player. • OFF: Disable this feature.
Clock	Clock Type	• OFF: The feature of SW Clock becomes not available. • SW Clock: If this item is selected and a user presses the INFO key of the remote twice consecutively in the standby mode of TV, the clock information is displayed in the screen of TV and then TV is turned off automatically.
	Local Time	Select the way to update the clock data • Manual: The clock is set automatically from the DTV channel or manually by the user when the TV is in stand-alone mode. • Time Channel: The clock is set from the selected channel.
	Timer Type	Enable or disable the alarm function. • WakeUp : Enable the alarm function to turn on the device at the specified time. • OnOff : Disable the Alarm function.
Music Mode	Music Mode AV	Allows music output from an mp3/audio player connected to an AV Input Source on the TV. When on, you can hear sound from the player through the TV whether there is a video signal or not. Also mutes the video so the TV does not display a picture when a guest is playing music. The TV's backlight, however, remains on.
	Music Mode Comp	Allows music output from an mp3/audio player connected to an Component Input Source on the TV. When on, you can hear sound from the player through the TV whether there is a video signal or not. Also mutes the video so the TV does not display a picture when a guest is playing music. The TV's backlight, however, remains on.
	Music Mode Backlight	When set to Off, the TV's backlight is turned off entirely when a guest uses the Music mode. To save energy, set to Off.
External Source	USB Pop-up Screen	When USB is connected to the TV : • Default: a popup window appears. • Automatic: This enters the USB content menu automatically. • Disable: Neither the popup window nor the menu appears.
	External Source Banner	If set to On, the TV displays the External Source Banner (information) when you change the TV source to another external input, press the Info key, or turn the TV on. • ON: The External Source information is displayed on the TV screen. • OFF: The External Source information is not displayed on the TV screen.
	Auto Source	• ON: When an external input source is connected to the TV, the TV identifies the input source, and then automatically switches to that input source. • OFF: Auto Source function is Off.
	Anynet+ Return Source	Select the return TV source after stopping an Anynet+(HDMI-CEC) connection. (This fuction is especially useful for the Guestlink RJP.)
Eco Solution	Energy Saving	Adjusts the brightness of the TV to reduce power consumption. • OFF: Turns off the energy saving function. • Low: Sets the TV to low energy saving mode. • Medium: Sets the TV to medium energy saving mode. • High: Sets the TV to high energy saving mode.

Hotel TV Function		Description
Category	Item	
Logo/Message	Welcome Message	Displays a the Welcome Message for 5 seconds when the TV turns On.
	Edit Welcome Message	Edits the Welcome Message.
	Hospitality Logo	Turns the Hospitality logo feature OFF, BMP, AVI, BOTH. If not OFF, when the TV is turned on, the Logo is displayed, before the signal from the initial source, for the amount of time set in "Logo Display Time".
	Hospitality Logo DL	Downloads the Hospitality logo. Hospitality logo file requirements: • BMP or AVI files only. • Max file size: BMP - 960 X 540. AVI - 30MB. • The file can only be named samsung.bmp or samsung.avi.
	Logo Display Time	Hospitality Logo Display Time (3/5/7 seconds).
Cloning	Clone TV to USB	Clone the current TV options to a USB memory device.
	Clone USB to TV	Clone the saved TV options on a USB memory device to the TV.
	Setting Auto Initialize	If you set Setting Auto Initialize to On, and the TV's power is turned off and on, TV menu items are restored again to their values cloned initially. See page 32.
REACH Solution	REACH	• ON: The feature of REACH in this TV becomes available. • OFF: The feature of REACH in this TV becomes not available.
	REACH IP Mode	If enabled, Reach will work over IP instead of RF.
	Server IP Setting	The URL of the Reach IP server, for example https:\\192.168.1.2:443.
	REACH Channel	Assign a DTV channel number to carry the update REACH data. This channel number must be the same as the number set on the Reach server.
	REACH Update Time	Lets you set when data such as updated SW, cloning files, and S-LYNC REACH contents is downloaded from the REACH server to the TV : • 1hour: Every hour • 2hour: Every 2 hours • 12:00 am: every 12:00 a.m. • 2:00 am: every 2:00 a.m. • 12:00 pm: every 12:00 p.m. • 2:00 pm: every 2:00 p.m.
	REACH Update Immediate	• ON: Whenever the TV enters standby mode (the power cord is plugged in and the power is off), the REACH data is updated on the TV. • OFF: The REACH data is only updated on the TV at the REACH server update time.
	Group ID	Select the group ID of the REACH server. (Refer to the REACH server manual for more details)
	Room Number	Set the room number
	IPG Room Type	Selects the IPG room type of the REACH server. (Refer to the REACH server manual for the more information.)
	REACH Config Version	The version of REACH is displayed.
Network	Network Setup	If this item is entered into, network setup menu is displayed. The network setup menu is used for setting network like access internet. Soft AP: Using this function, you can connect the TV on your mobile devices. Set the options for connection of Wi-Fi device. • Soft AP: Turns on or off the Soft AP. When Soft AP is set to On, your mobile devices can find the TV name in Wi-Fi connection list. • Security key: Set a security key that you need to enter on other devices so they can connect to the TV. – Input the generated security key into the device you want to connect. – If network does not operate normally,check the security key again. An incorrect security key may cause a malfunction. ✎ Soft AP may not be available if it is not supported by the model. ✎ Maximum number of devices that can be connected: 4 devices. ✎ Bitrate : 10 Mbps/device. ✎ The specifications above are based on our in-house testing. Actual performance may vary depending on your wired/wireless network environment.
	SmartHub Model Setting	Set SmartHub Model.
	SmartHub Setting	Set up SmartHub.
	Service Discovery	TV can be searched in the DLNA environment. (default: On) After changing the values, TV rebooting is needed. User can search TV in the DLNA environment. (ex, Samsung Smart View App) User search and add TV in the DLNA environment.

Hotel TV Function		Description
Category	Item	
Widget Solution	Widget Mode	• ON: The TV mode is changed to the Widget mode that TV accesses to the hospitality server through IP connection and the guest uses various services and features through Widget of TV • OFF: The TV mode becomes normal the hospitality mode.
	Solution Type	Select the type of the solution server installed in your site for the widget service. • Vendor Server: In the case of that the special SI vendor of the server is installed in your site. • SINC Server: In the case of that the Samsung SINC server is installed in your site.
	Server URL Setting	If this item is entered into, URL of the solution server can be inputted.
	License Server IP Setting	If this item is entered into, URL of the license server can be inputted.
	IPTV Mode	• ON: The IPTV mode that watches the broadcasting through the IP network is enable. • OFF: The IPTV mode is not disable
	Room Num Setting	Set the room number
	PHY Sleep Mode	• ON : WOL is enable. • OFF : WOL is disable. (Default)
Virtual Standby	Virtual Standby Mode	TV can supply the main feature in the standby mode if The TV mode is set to the Virtual Standby mode. • ON: The Virtual Standby mode is enable. • OFF: The Virtual Standby mode is disable. When Virtual Standby is On, TV power consumption will be 9.5W to 17.4W (Depending on ithe size of the TV screen).
	Reboot Time	This Feature can set the Reboot interval of TV after TV enters Virtual standby Mode.
Security Mode	Factory Lock	Delete Device List in when power on or off. • ON: The password is needed before entering factory menu. • OFF: disable this feature.
	Password Input	If this option is enabled, a popup input box appears which asks for an 8-character security password. The admin must enter a password before applying or updating security preferences. After the correct password is entered, options such as Password Setting, Password Reset and Security Mode are available.
	Password Setting	User can change the password.
	Password Reset	Password is reset to "00000000".
	Password Popup	Enable/disable Password Popup. If this option is set to OFF, the TV will not display the password input popup window when entering the Factory menu. If set to ON, the password input popup window appears.
	Security Mode	Security Mode provides password protected administrative functionality to enable or disable features of Hospitality TV, such as HDMI, USB and TTX. Use this option to turn security mode on or off. After turning on security mode, options such as "USB," "HDMI" and "TTX Security" are automatically enabled in the security sub-menu. "USB to TV cloning" and "TV Reset" will be disabled in the Hospitality Menu.
	USB	Enable/disable USB access. When disabled, access to USB media is blocked.
	HDMI	Enable/disable HDMI access. If disabled, Anynet, HDMI source, HDMI type External Channels will not be accessible to the user.
DRM	DRM Mode	Configures DRM support. OFF: Turns off DRM support. LYNK DRM: Select to turn on S-LYNK DRM CAS support only. Pro:idiom: Select to turn on Pro:Idim CAS support only. LYNK DRM,PI: Select to have the TV support S-LYNK DRM CAS and Pro:Idiom CAS.
	PI AES Data	Displays the current state of Pro:Idion AES
	PI AES Log	• ON: Output of Pro:Idiom AES log is enable. • OFF: Output of Pro:Idiom AES log is disable.
	View PI AES Log	If this item is entered into, the Pro:Idiom AES log is displayed.

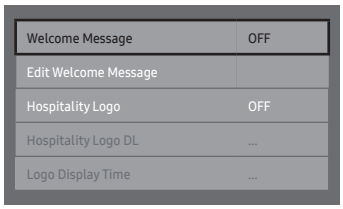
Hotel TV Function		Description
Category	Item	
System	Self Diagnosis for TV	• Enter Self Diagnosis Menu. Picture Test: Use to check for picture problems. If the problem appears in the test picture, select Yes and follow the directions on the screen. • Sound Test: Use the built-in melody sound to check for sound problems. If the problem occurs during the test, select Yes and follow the directions on the screen.
	Self Diagnosis for HTV	Lets you check the state of Pro:Idiom and its communication with the SI STB or SBB. If you have any problems with the Pro:idiom encryption channel or the communications with the SI STB or SBB, use this diagnosis function. If Pro:Idiom DTV Channel Key Loss appears to have failed and the Pro:Idim encryption channel has failed to play content, first check the broadcasting systems related to Pro:Idiom encryption. If your broadcasting system does not have a problem, contact Samsung Service. If STB SI Vendor Setting appears to have failed and communication with the SI STB or SBB has failed, first check your SI STB or SBB. If your SI STB or SBB does not have a problem, contact to Samsung Service.
	SW Update	Lets you upgrade the TV SW with a USB memory stick. See Page 39.
	Service Pattern	Lets you check the state of the TV picture by displaying picture test patterns. Press the Menu button to turn off the test patterns and exit.
	ATV Cable AGC Gain	Lets you control the AGC gain of the analog cable channels. Don't change the default value unless problems occur.
	DTV OpenCable AGC Gain	Lets you control the AGC gain of the digital cable channels. Don't change the default value unless problems occur.
	Sound Bar Out	If the Samsung Sound Bar device is connected to this TV, this item lets you to select where the TV sound is outputted when the TV is turned on. • ON: When the TV is turned on, the TV sound is automatically outputted in the Sound Bar device only. • OFF: When the TV is turned on, the TV sound is automatically outputted in the TV speaker device only.
	Contact Samsung	Display the web site of related Samsung service center, software version, and Mac address information.
	Standby LED	When the TV is in standby mode, you can configure the settings of external LED. • ON: The LED is on. • OFF: The LED is off.
	TV Reset	Returns all settings on the TV to their factory defaults.

✎ REACH (Remote Enhanced Active Control for Hospitality) is a professional, interactive remote controller that lets you deliver TV firmware updates, cloning data, channel mapping changes, REACH contents, and TICKER contents through RF DTV to several hundred hospitality TVs simultaneously. The REACH functions are available only in standalone mode. The REACH Server is sold separately. Refer to the REACH server manual enclosed with the REACH server product for more operating information.

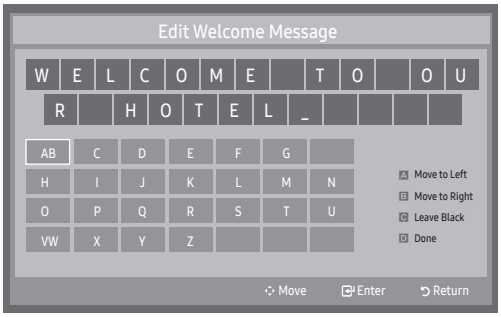
Welcome Message

The Welcome Message feature displays a custom message on the TV every time it is turned on.

- Welcome message settings are in the Hotel Option Menu.
- Set Welcome Message to ON to display the message when the TV is powered on.



- You can make the Welcome Message up to 25 characters long and edit it in the Hotel Service menu.
- Welcome Message supports the following characters:
  - ✎ Capital Letters from A to Z.
- You can edit the Welcome Message by using the remote's navigation, color, and Enter buttons in the "**Edit Welcome Message**" OSD (See the illustration below.)



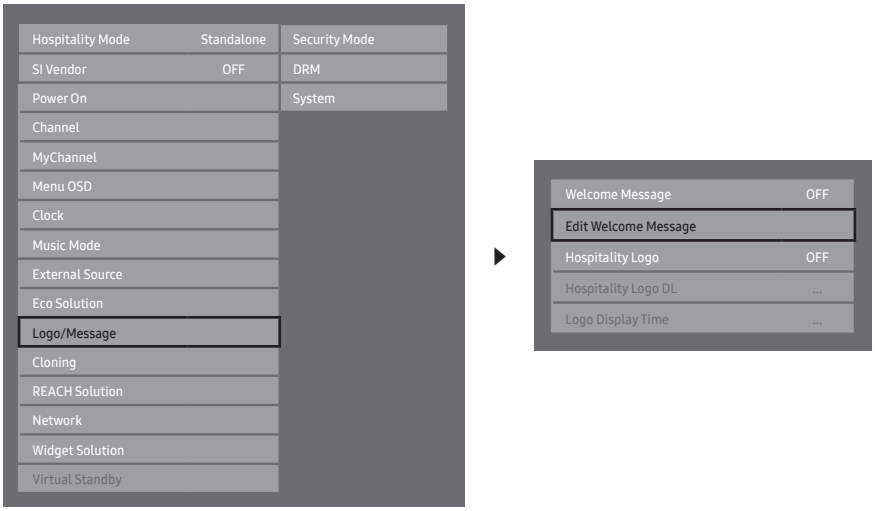
Below are the general directions for navigating and changing letters on the Edit Welcome Message screen:

- Press the **A** button on the remote to move to the left in the message.
- Press the **B** button to move to the right.
- After you have selected a position in the message, use the arrow buttons on your remote to select a letter in the alphabet below the message.
- Press **Enter** to place a letter into the position you selected.
- Press the **C** button to erase a letter in a position or enter a blank.
- Press **Return** or the **D** button to exit.

Hotel Logo

The Hospitality Logo function displays the Hotel's picture image when the TV is powered on.

- Hospitality Logo settings are the Hotel mode menus.
- The Logo Download and Logo Display Menu items are enabled when you turn the Hospitality Logo option on.
- If there is a logo image stored in memory and the Hospitality Logo option is on, the Hospitality logo is displayed when the TV is turned on.
- The Hospitality logo is not displayed when the Hospitality found Logo option is off, even if the logo image has been loaded into the TV.



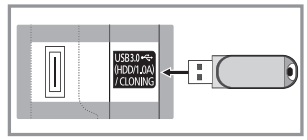
- Hospitality Logo
  - This option lets you choose whether the Hospitality Logo image is displayed or not.
  - Initial value is OFF.
  - Can be set to BMP, AVI, BOTH.
  - When set to BMP, AVI, BOTH, the Logo Download and Logo Time Display menu items become accessible.
- Logo Download
  - This option lets you download the logo image to the TV's memory from a USB device.
  - A wait message appears while the image is being copied to the TV.
  - A "completed" message appears when the copy operation finishes successfully.
  - The word "failed" appears if the copy operation was unsuccessful.
  - No USB appears if no USB device is connected.
  - No File appears if there is no file to copy on the USB device or the file is in the wrong format (must be a BMP or AVI file). If No File appears and there is a logo file on the USB device, check the file format.
- Logo File Format
  - The TV supports only BMP and AVI format.
  - The file name must be samsung.bmp or samsung.avi.
  - The maximum resolution of the BMP format is 960 x 540.
  - The maximum file size for AVI format is 30MB.
  - The TV does not change the size or scale of the image.

USB Cloning

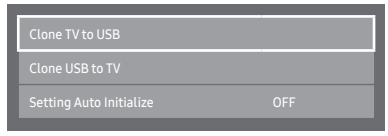
The USB Cloning function lets you download user-configured settings (**Picture, Sound, Input, Channel, Setup**, and **Hotel Setup**) from one TV to a USB device, and then upload these settings from the USB device to other TV sets. This lets you create a standard file of settings and distribute that standard file to all the TVs in your facility.

✎ After cloning, certain features are applied when the TV is turned on again.

- **Cloning TV to USB**: Copies stored menu settings from a TV to a USB device.



1. Insert a USB drive into the USB port on the rear of the TV.
2. Enter the hotel option menu by pressing buttons in order.
   MUTE → 1 → 1 → 9 → ENTER↵
3. Press the ▲ or ▼ button to select **Cl one:TV to USB**, and press the ENTER↵ button.
4. When the message **Clone**: **TV to USB** is displayed. Press the ENTER↵ button.
5. The TV displays one of the following messages:
   - **In Progress**: Copying data to USB.
   - **Completed**: Copy was successful.
   - **Failed**: Copy was not successful.
   - **No USB**: USB is not connected.



The clone folder will be labeled T-MST14AKUCB.

✎ The cloned values include the values on the Guest side menu (brightness, picture size, contrast, etc.) and the Hotel side menu.

Cloning USB to TV: Copies menu settings in a USB device to a TV.

✎ **Shortcut**: Turn the TV off, insert the USB device, turn the TV on, and then press the ENTER↵ button for 5 seconds.

To clone data to the TV using the Hotel menu, follow these steps:



1. Turn the TV off.
2. Insert the USB drive into the USB port on the rear of the TV.
3. Turn the TV on.
4. Enter the Interactive menu by pressing these buttons in order.
   MUTE → 1 → 1 → 9 → ENTER↵
5. Press the ▲ or ▼ button to select “Clone USB to TV”, and then press the ENTER↵ button.
6. The message **Clone: USB to TV** is displayed. Press the ENTER↵ button.
7. The TV displays one of the following messages:
   - **In Progress**: Copying data to TV.
   - **Completed**: Copy was successful.
   - **Failed**: Copy was not successful.
   - **No USB**: USB is not connected
   - **No File**: There is no file to copy on the USB device. If you get a No File message, check the folder on your USB device. The folder name should be T-N14UKAKUCB.

     ✎ Tables that list the settings that are cloned in the Interactive and Standalone Hotel Menus begin on the next page.

Settings Cloned in the Hotel Menu

Menu Item	Cloning Support
Hospitality Mode	Yes
SI Vendor	Yes
Power On Channel	Yes
Power On Channel Num	Yes
Power On Channel Type	Yes
Power On Volume	Yes
Power On Volume Num	Yes
Min Volume	Yes
Max Volume	Yes
Power On Source	Yes
Power On Option	Yes
Channel Setup	N/A
Channel Editor	N/A
Channel Bank Editor	N/A
Channel Bank Service Level	Yes
Mixed Channel Map	Yes
Dynamic SI	Yes
Channel Rescan Message	Yes
Pan Euro MHEG	Yes
Channel Auto Store	N/A
Mychannel	Yes
Genre Editor	N/A
Mute On CC	Yes
Subtitle Auto On	Yes
TTX Widescreen Mode	Yes
Picture Menu Lock	Yes
Menu Display	Yes
Tools Display	Yes
Channel Menu Display	Yes
Panel Button Lock	Yes
Home Menu Display	Yes
Home Menu Editor	N/A
Home Menu Auto Start	Yes
Gallery Mode Editor	N/A
Bluetooth Music Player	Yes
Clock Type	Yes
Local Time	Yes
Time Format	Yes
Clock Test	N/A
Clock Normal Dim.	Yes
Clock Standby Dim.	Yes
Timer Type	Yes
Time Channel Type	Yes
Time Channel Num	Yes
Music Mode AV	Yes

Menu Item	Cloning Support
Music Mode PC	Yes
Music Mode Comp.	Yes
Music Mode Backlight	Yes
HDMI Music Mode	Yes
Video Out	Yes
USB Pop-up Screen	Yes
External Source Banner	Yes
Auto source	Yes
Anynet+Return Source	Yes
HP Mode	Yes
Default HP Volume	Yes
Main Speaker	Yes
Pillow Speaker Type	Yes
Speaker Select	Yes
Pillow Volume	Yes
Energy saving	Yes
Energey Saving Timer	Yes
Welcome Message	Yes
Edit Welcome Message	N/A
Hospitality Logo	Yes
Hospitality Logo DL	N/A
Logo Display Time	Yes
Clone TV to USB	N/A
Clone USB to TV	N/A
Setting Auto Initialize	Yes
REACH 3.0	Yes
REACH 2.0	Yes
REACH Channel	Yes
Group ID	N/A
IPG Room Type	Yes
Ticker	Yes
REACH Update Time	Yes
REACH Update Immediate	Yes
Room Number	N/A
REACH 2.0 TV Sound	Yes
REACH Server Version	N/A
Network Setup	N/A
SmartHub Model Setting	N/A
SmartHub Setting	N/A
Service Discovery	Yes
VLAN ID	Yes
Solution VLAN ID	N/A
Device VLAN ID	N/A

Menu Item		Cloning Support
Widget Mode		Yes
Solution Type		Yes
Server URL Setting		N/A
License Server IP Setting		N/A
IPTV Mode		Yes
Virtual Standby		Yes
Instant On		Yes
Room Num Setting		N/A
Widget Resolution		Yes
PHY Sleep Mode		Yes
MDC ID Settings		Yes
TV Version		Yes
Door Eye Mode		Yes
Door Eye Source		Yes
Prompt OSD		Yes
Source Return Time		Yes
Password Input		N/A
Password Setting		N/A
Password Reset		N/A
Security Mode		Yes
USB		Yes
HDMI		Yes
TTX Security		Yes
DRM Mode		Yes
PI AES Data		N/A
PI AES Log		Yes
View PI AES Log		N/A
Self Diagnosis for TV		Yes
Self Diagnosis for HTV	PI DTV Channel Key Loss	N/A
	STB SI Vendor Setting	N/A
	Bathroom AMP	N/A
	RTC	N/A
SW Update		N/A
Service Pattern		Yes
ATV Cable AGC Gain		Yes
DTV Open Cable AGC Gain		Yes
Sound Bar Out		Yes
Contact Samsung		N/A
Standby LED		Yes
TV reset		N/A

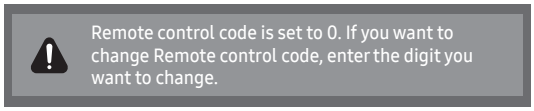
Multi Code Remocon

A Multi Code Remocon is a special remote which is designed to control multiple TVs.
This function is useful where there is more than one TV in a location.
You can control up to 10 TVs with a different ID code of each remote with no conflicts between the TVs. ID numbers are displayed on each TV's OSD.
The Initial ID code for each TV is “0”.

- You can set and reset the ID code in Analog TV mode or PC mode. (Not available in DTV mode.)
- You can set the ID code to any digit from 0 to 9.
- To set a TV's ID code, follow these steps:
  1. Aim the remote at the TV, and then press the MUTE button and the RETURN button simultaneously for more than 7 seconds. When you stop pressing the buttons, the TV displays the current ID in the middle of the screen and the words, "Remote control code is set to 0. If you want to change the Remote control code, enter the digit you want to change."
  2. Press the number on the remote you want to assign to the TV. The TV displays the following words: "Remote control code is changed to x."

     ✎ The TV will display the OSD until you press the EXIT button.

  See the example below.

  Example: After you see the message above, if you press 1, the TV and Remote will be set to ID code 1. The TV then displays the following message: “Remote control code is changed to 1”
  The TV can then only be controlled by a remote which has the same ID code (1).
- To reset the ID code, press the MUTE button and the EXIT button simultaneously for more than 7 seconds. When you stop pressing the buttons, the ID codes of the TV and Remote are reset to “0”. “Remote control code is set to 0.” appears on the TV

Setting Auto Initialize

When you clone settings from one TV to another, you clone both the guest side menu and hotel side menu settings: Picture, Sound, Input, Channel, Setup, and Hotel Setup. This lets you set nearly all of the menu values on your hospitality TVs to the same, standard settings. If you allow guests access to the guest side menus, for example the Picture menu, they can change the settings in those menus so they are no longer standard. If you set the Setting Auto Initialize function to on the TV automatically restores (initializes) any guest-side menu values to the cloned, standard values when the TV is turned off and then turned on again. Note that Setting Auto Initialize works on cloned guest side menu values only. Settings which have not been cloned are ignored.

The table below lists the settings that are restored to their cloned values when you set the Setting Auto Initialize function to On.

Menu	Menu Item

Picture	Picture Mode
	Back light
	Contrast
	Brightness
	Sharpness
	Color
	Tint (G/R)
	Apply Picture Mode
	Picture Size
	  Picture Size
	  Position
	PIP
	Advanced Settings
	  Dynamic Contrast
	  Black Tone
	  Flesh Tone
	  RGB Only Mode
	  Color Space
	  White Balance
	  Gamma
	  Motion Lighting
	Picture Options
	  Color Tone
	  Digital Clean View
	  MPEG Noise Filter
	  HDMI Black Level
	  Film Mode
	  Analog Clean View
	  LED Clear Motion
	Picture Off
	Reset Picture

Sound	Sound Mode
	Sound Effect
	  DTS TruSurround HD
	  DTS TruDialog
	  Equalizer
	Speaker Settings
	Additional Settings
	  HDMI Audio Format
	Reset Sound

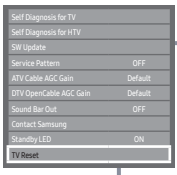
Menu	Menu Item

System	Accessibility
	  Voice Guide
	  Video Desciption
	  Caption
	  Menu Transparency
	  High Contrast
	  Enlarge
	Menu Language
	Smart Control Settings
	  Motion Sensitivity
	  Touch Sensitivity
	  Onscreen Remote Size
	Voice Control
	  Language
	  TV Voice
	  Voice Gender
	Device Manager
	  Keyboard Settings
	  Mouse Settings
	Time
	  Clock
	  Sleep Timer
	  Wake-up Timer
	Eco Solution
	  Energy Saving
	  Eco Sensor
	  No Signal Power Off
	  Auto Power Off
	Smart Security
	Auto Protection Time
	Change PIN
	General
	  Game Mode
	  Sound Feedback
	  Boot Logo
	Anynet+ (HDMI-CEC)
	  Anynet+ (HDMI-CEC)
	  Auto Turn Off
	  Device search
	DivX® Video On Demand

Hotel Plug & Play

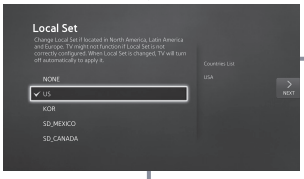
The Hotel Plug & Play function, which automatically performs the Hotel mode selection, Country Setup, Clock Setup, and Picture Mode Setup, runs once, when power is first turned ON. Setup also runs automatically after you have executed a Service Reset.

- UI Scenario



If you select Factory Reset, the TV resets all values to their factory defaults and then displays the Hospital Plug & Play menu. Go to the first Hospital Plug & Play screen below.

+ ⏻



If you change the country of the Current Location

The TV is automatically turned off and on.

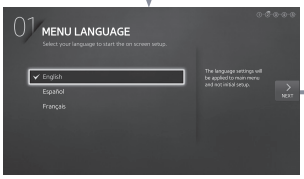
If you don't change the country of the Current Location



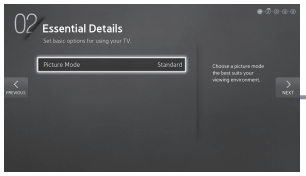
If you select Cloning Mode → Copy the system settings from the USB or server to the TV.

If you select Factory Menu → End setup and go to Factory Menu directly.

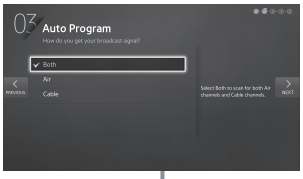
If you select TV Basic Setup



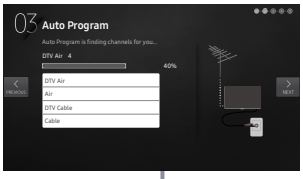
Select your language



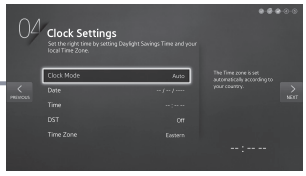
Select Picture mode



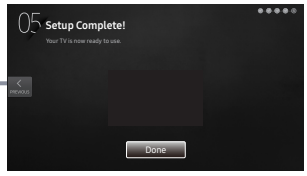
Select the channel band to use for Auto Program



After Searching channels.



Select Clock Mode, DST, and your Time Zone



Hotel Option Menu appears.

Press Power OFF to exit.

- LocalSet
  - Initially highlighted: US
  - If you press the Enter key after selecting Change, you can change the country.
  - If the country is changed, the TV automatically turns off and on.
  - If you select the incorrect country, execute TV Reset again after entering the System section of the Hotel Menu.
- Menu Language OSD
  - If you select TV Basic Setup from the "TV Installation Type" OSD, the “Menu Language” OSD appears.
  - Initially highlighted: English
  - If you press the Enter key, the “Picture Mode” OSD appears
- Picture Mode OSD
  - Initially highlighted: Standard.
  - The TV displays the Picture Mode OSD where you can choose the Dynamic or a Standard Picture mode.
- Auto Program OSD
  - If you press the Enter key, the TV automatically searches for channels.
- Set Clock Mode, DST(Daylight saving time), and Time Zone OSD
  - Initially highlighted:
    Clock Mode : Auto, DST : Off, Time Zone : Eastern
  - If the TV will be tuned to digital broadcast channels, and these channels transmit date and time information, set the Clock Mode to Auto. The TV will set the date and time automatically.
  - If the TV will not be tuned to digital broadcast channels, set the Clock Mode to Manual, and then set the date and time on the TV manually.
  - Set DST On or Off to apply or not apply daylight saving time to the TV.
  - Select your time zone on the map that appears.

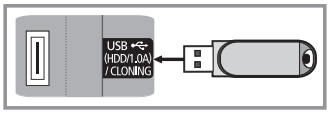
USB Software Upgrade Method

Samsung may offer upgrades to the TV's SW in the future. Please contact the Samsung Hospitality Hot line at 1-866-sam4biz to receive information about downloading upgrades and using a USB drive to update the SW by connecting the USB drive containing the upgrade to the USB port located on the TV.

When the software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you clone the hospital settings so that you can easily reset them after the upgrade.

To upgrade the TV's software, follow these steps:

1. Insert a USB drive containing the SW upgrade into the USB port on the side of the TV.
2. Press the MENU button to display the menu.
   Press the ▲ or ▼ button to select **Support**, and then press the ENTER↵ button.
3. Press the ▲ or ▼ button to select **SW Upgrade**, and then press the ENTER↵ button.
   The message "**Scanning for USB. This may take more than 1min.**" is displayed.
4. The message "**Upgrade version XXXX to version XXXX? The system will be reset after upgrade.**" is displayed.
   Press the ◄ or ► to select **OK**, and then press the ENTER↵ button.



Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the SW upgrade. Please check the SW version after the upgrades are complete.

Soundbar(AirTrack)

- **Samsung Soundbar(AirTrack) and Hospitality TVs in 2016**
  - Samsung Soundbar(AirTrack) and hospitality TVs support the HDMI ARC feature If you connect a compatible Samsung Soundbar(AirTrack) to a compatible Samsung hospitality TV using a single HDMI cable, guests can listen to the TV's sound through the Soundbar(AirTrack).
  - The item of Soundbar(AirTrack) Out in Hospitality Option Menu makes you control to where the TV sound is outputted when the TV is turned on.
    If Sound bar Out is On, the TV sound is automatically outputted in the Soundbar(AirTrack) device only whenever TV is turned on.
    If Sound bar Out is Off, the TV sound is automatically outputted in the TV speaker only whenever TV is turned on.
  - Models supporting the ARC function are listed below:
    - Sound-Bars: HW-H450/H550/H570/H600/H7500
      HW-J450/J470/J550
      HW-K450/K550
- **Setting the Soundbar(AirTrack) to Hotel Mode.**
  1. Set the following Hotel menu options:
     - Hotel option › External Device › Sound Bar Out = On.
     - Hotel option › Power On › Power On Volume = User Defined.
     - Hotel option › Power On › Power On Volume Num › Set greater than 0.
     - Hotel option › Power On › Max Volume › Set greater than 0.
  2. Connect an HDMI cable from the HDMI OUT jack on the back of the Soundbar(AirTrack) to the HDMI IN 1 port (supporting ARC) on the hospitality TV.
  3. After the Soundbar(AirTrack) is connected to the hospitality TV, when the TV turns on, the Soundbar(AirTrack) automatically detects the TV, and then automatically switches to Hotel Mode.

Soundbar(AirTrack) Hotel mode functional characteristics:

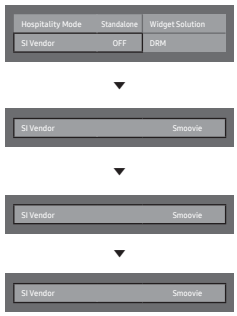
- Power On/Off is synchronized with the TV
- HDMI_CEC defaults set to On
- Functions through the “HDMI OUT” port only
- Disables the "Input mode" key on the VFD to prevent unexpected audio-source changes.
- Acquires adjustable Power On and Max Volume settings from the TV’s Hotel option menu. Soundbar's Power On Volume and Max Volume values, however, are ½ of Power On Volume and Max Volume settings in the TV's Hotel option menu. Example: If the TV's Power On Volume=20 and Max Volume=90, then Soundbar's Power On Volume=10 and Max Volume=45.

Channel Bank Editor (Smoovie TV Only)

The Channel Bank Editor in conjunction with the SMOOVIE remote lets you control the channels guests have access to. The Channel Bank Editor provides three Banks of channels and lets you select which channels will be available from each bank. SMOOVIE remotes have installable Bank Cards which correspond to the channel banks in the Channel Bank Editor. The remotes only allow access to channels in the channel bank that correspond to the installed card. Consequently, the channels a guest can access depend on the Bank Card installed in their SMOOVIE remote.

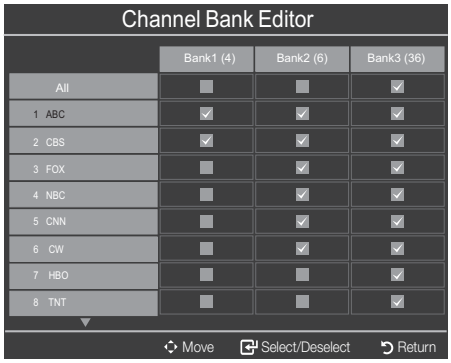
Setting the Channel Bank Editor under Stand-alone Mode

1. Press MUTE → 1 → 1 → 9 → ENTER on the remote to enter the Hotel Standalone menu.
2. Go to **SI vendor**, and then select : “**Smoovie**”
3. Find the new menu option, "**Channel**" → "**Channel Bank Editor**".
4. Enter the “**Channel Bank Editor**”.



‹Depending on model and region, some menu items may not exist.›

5. Edit the Channel Bank. An example is below.
   a. Bank1 (Free channel): Select the channels that will be accessible when a remote doesn't have a card.
   b. Bank2 (Family Card - Green): Select the channels that will be accessible when a remote has a GREEN CARD.
   c. Bank3 (Adult Card - Red): Select the channels that will be accessible when a remote has a RED CARD.



Information About SMOOVIE Remote Controls

- If you select SMOOVIE as the SI vendor, you should also use SMOOVIE remotes in your facility.
- Guests with remotes that do not have a card can only view channels from Bank 1.
- Guests using the Numeric keys on the remote to change channels can only view channels from Bank 1.
- Guests with remotes that have Green or Red cards must use the channel up/down keys to change channels.
- Guests can only see channels from the Bank1 channel list In the Channel Guide or the Channel List.

Smoovie Set Up Sequence

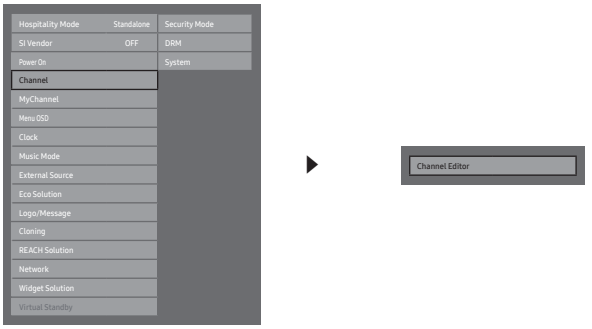
Step	Smoovie TV Setup (Air/ Cable)	
	Only Air or Cable used	Only Air or Cable used
	If the TV starts with Hotel Plug&Play	If Hotel Plug&Play already done
1	Do a complete P&P (including Air or Cable auto tune)	Enter the Hotel menu
2	After P&P, the TV displays the Hotel menu	Select the channel type - ATV or ADTV for Air - CATV or CDTV for cable
3	Select the channel type - ATV or ADTV for Air - CATV or CDTV for cable	Select Smoovie TV in the Hotel menu
4	Select Smoovie TV in the Hotel menu	Select Channel Setup
5	Select Channel Setup (Can be skipped)	Select "Air" or "Cable" to auto tune
6	Select "Air" or "Cable" to auto tune. (Can be skipped,)	Set up channels in the CH Bank Editor
7	Set up channels in the CH Bank Editor	After power off & on, guests can use the TV
8	After power off & on, guests can use the TV	
9		
10		

Channel Editor

The Channel Editor lets you edit the channels stored in the TV's memory. Using Channel Editor you can:

– Change the channel numbers and names, and sort the channels in your desired channel number order.

– Apply the video mute to channels you select. The video mute blanks out the video from a channel and outputs only the sound while displaying a speaker icon on the screen.
The Channel Editor also lets you view information about each channel easily, without your having to display each channel directly.

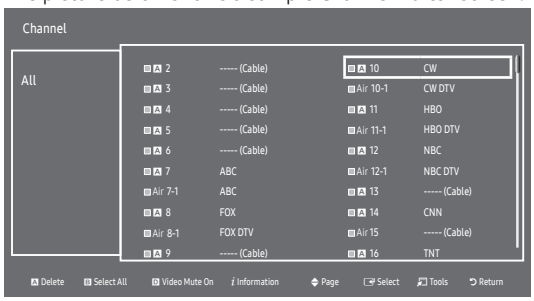


‹Depending on model and region, some menu items may not exist.›

General Steps for Using the Channel Editor in Stand-alone Mode

Step	Broad Outline
1	Run 'Channel Auto Store' in the Hotel Option Menu.
2	Enter 'Channel Editor' in the Hotel Option Menu.
3	On a piece of paper, compile a list of channels you want to have, arranged in the order you want.
4	Rearrange channels and edit channel names with the TOOLS Button based on the list you compiled.
5	Press the EXIT or RETURN Button to exit.
‹For a detailed explanation of how Channel Editor works, see pages 41 through 43.›	

The picture below shows a sample **Channel Editor** screen.



- **A** Indicates an analog channel.
- Channels without an **A** are digital channels.

  ✎ If Dynamic SI in the Hospitality Option Menu is On, Channel Editor will display no digital channels. You must set Dynamic SI to Off before you can edit digital channels in Channel Editor.
- The guide at the bottom of the Channel Editor menu displays the remote buttons you need to press to apply Channel Editor functions.

  ❶ Using the remote's up or down arrow key, highlight the channel that you want to edit.

  – To edit more than one channel, move the highlight to a channel, and then press the ENTER↵ key. A check will appear in the check box next to the channel. Repeat for each channel you want to edit.

  ❷ To delete the channel or channels you selected from the channel list, press the red button on the remote.

  – To delete two or more channels simultaneously, select multiple channels in Step 1, and then press the red button on the remote.

  ❸ Press the green button on the remote to select all channels.

  ❹ To apply the video mute, press the yellow button on the remote.

  – To apply the video mute to two or more channels simultaneously, select multiple channels in Step 1, and then press the yellow button on the remote.

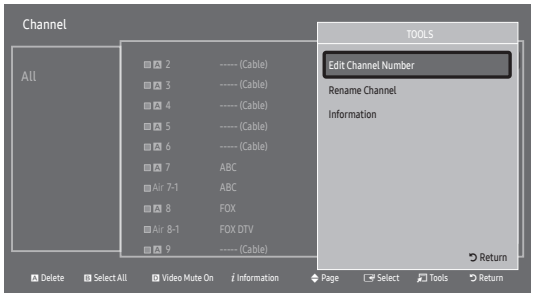
  ❺ To view information about a channel, including video mute set up, press the INFO button on the remote.

  ❻ Press the TOOLS button on the remote to rename a channel or change the channel number.

Channel Editor Functions and Remote Button

A Red (**Delete**): Deletes a channel from the channel list.
B Green (**Select All**): Selects all channels at once.
C Yellow (**Deselect All**): Deselects all channels at once.
D Blue (**Video Mute On/Off**): You can set the **Video Mute On/Off**.
▲▼ (**Page**): Moves to next or previous page.
i (**Information**): Display details of the selected channel.
(**Tools**): Displays the option menu.
(**Return**): Returns to the previous step or exits.

When you press the TOOLS button, the following menu is available.

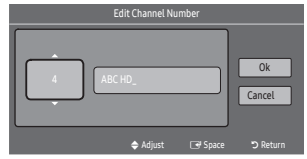


- **Edit Channel Number**

  Use **Edit Channel Number** to change the channel number of a channel you select.
  To change a channel number, follow these steps:

  1. Select a channel on the **Channel Edit** screen.
  2. Press the TOOLS button on your remote.
  3. Select **Edit Channel Number** in the Tools menu.
  4. Use the up or down arrow keys to change the channel number.
  5. Select **OK** when done, and then press the ENTER button.

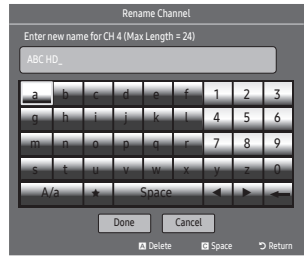
     ✎ When you change the channel number, the channel information is not updated automatically.



- **Rename Channel**

  Use **Rename Channel** to change the name of a channel you select.
  To change the name of a channel, follow these steps:

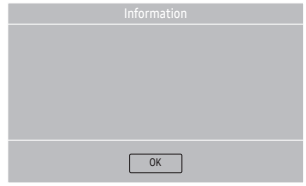
  1. Select a channel on the **Channel Edit** screen.
  2. Press the TOOLS button on your remote.
  3. Select **Rename Channel** in the Tools menu.
  4. Use the on-screen keyboard that appears to enter the new name for the channel. Use the arrow buttons on your remote to select a letter or number, and then press Enter. Repeat for each letter or number you want to select.
  5. When finished, select **Done** on the bottom of the screen, and then press the ENTER button.



- **Information**

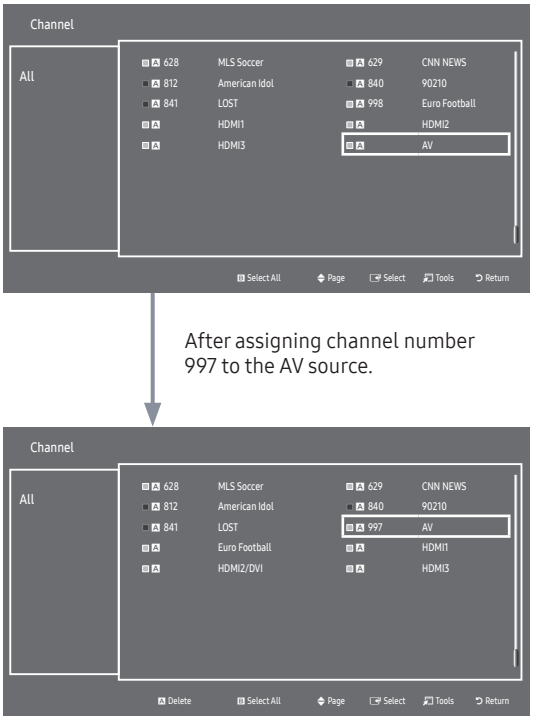
  Use Information to view information about a channel you select.
  To view information about a channel, follow these steps:

  1. Select a channel on the **Channel Edit** screen.
  2. Press the TOOLS button on your remote.
  3. Select **Information** in the Tools menu.
  4. Select **OK**, and then press the ENTER button to close the Information screen.



The external sources of this TV are displayed in the last page of the Channel Editor menu as shown in the example below.
In the example, there are two external sources connected to the TV, HDMI2 and AV.

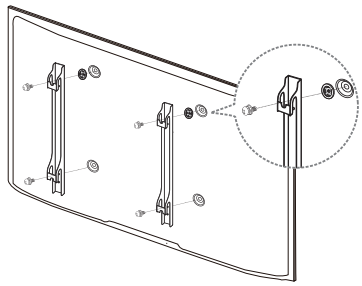
– You can assign a new analog channel to an external source by selecting the source on the last page, pressing the TOOLS button, selecting **Edit Channel Number**, and then using the up or down arrow button on the remote to select the channel number of the analog channel.
– If you tune to a channel after assigning the channel to an external source, you can enter the external source without opening the TV source menu.



Installing the Wall Mount

Installing the wall mount kit

You can mount the TV on the wall using a wall mount kit (sold separately).
To install a wall-mount from another manufacturer, use the Holder-Ring.



✎ The Product shape may differ depending on the model.

Installing the Wall Mount Kit

The wall mount kit (sold separately) allows you to mount the TV on a wall.

For detailed information on installing the wall mount, see the instructions provided with the wall mount. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you select to install the TV on your own.

Securing the TV to the Wall

⚠ **Caution**: Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang on or destabilize the TV. Doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided in the Safety Flyer included with your TV. For added stability and safety, you can purchase and install the anti-fall device as described below.

To Prevent the TV from Falling

✎ TV Holder Kits are sold separately. To purchase a TV Holder Kit, contact Samsung Customer Care.

1. Insert the screws into the wall brackets and firmly fasten them to the wall. Make sure the screws are firmly fixed to the wall.

✎ We strongly recommend you drive the screws into a stud.

2. Insert the screws into the wall brackets and firmly fasten the screws to the top VESA screw holes on theback of the TV.
3. Connect the brackets on the TV and the brackets on the wall with a strong string or cable, and then tie the string or cable tighrly to the brackets.

✎ Verify all connections are properly secured. Periodically check the connections for any sign of fatigue or failure. If you have any doubt about the security of your connections, contact a professional installer.

✎ Install the TV close to the wall so that it does not fall.

✎ Connect the string or cable so that the brackets on the wall are at the same height or lower than the brackets on the TV. Untie the string or cable before moving the TV.

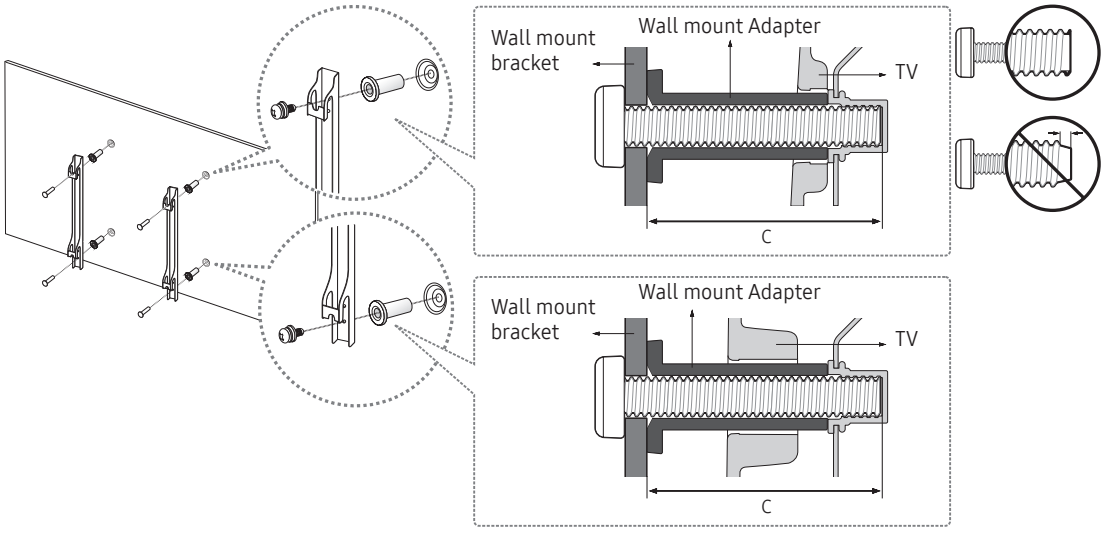
Wall Mount Kit Specifications (VESA)

✎ The wall mount kit is not supplied, but sold separately.

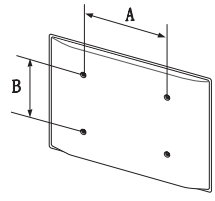
Install your wall mount on a solid wall perpendicular to the floor. If you are attaching the wall mount to building materials other than plaster board, contact your nearest dealer. If installed on a ceiling or slanted wall, the TV may fall and cause severe personal injury.

✎ NOTE

- Standard dimensions for wall mount kits are shown in the table below.
- Samsung wall mount kits contain a detailed installation manual. All parts necessary for assembly are provided.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not mount the TV at more than a 15 degree tilt.
- Always have two people mount the TV onto a wall.



Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	C (mm)	Standard Screw (Length* Pitch in mm)	Quantity
LED-TV	49	400 X 400	43 ~ 45	M8	4
	55				
	65				



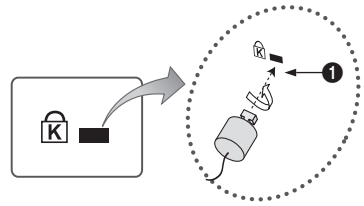
Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

Anti-theft Kensington Lock

The Kensington Lock is a device you can use to physically fix a TV to a location when you use it in a public place. The appearance and locking method may differ from the illustration at right, depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use.

The Kensington Lock is not supplied by Samsung.

✎ Please find the "" icon on the rear of the TV. A Kensington slot is beside the "" icon.



<Optional>

To lock the product, follow these steps:

1. Wrap the Kensington lock cable around a large, stationary object such as desk or chair.
2. Slide the end of the cable with the lock attached through the looped end of the Kensington lock cable.
3. Insert the locking device into the Kensington slot on the product ❶.
4. Lock the lock.

✎ These are general instructions. For exact instructions, see the User manual supplied with the locking device.

✎ The locking device has to be purchased separately.

✎ The location of the Kensington slot may be different depending on the TV model.

Specifications

Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50°F to 104°F (10°C to 40°C) 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing	
Model Name	HG49NE890U	HG55NE890U
Display Resolution	3840 x 2160	
Stand Swivel (Left / Right)	0°	
Screen Size (Diagonal)	49" Class (48.5" measured diagonally)	55" Class (54.6" measured diagonally)
Sound (Output)	20 W	
Dimensions (W x H x D) Body With stand	 43.3 x 25.1 x 2.2 inches (1099.4 x 638.7 x 55.3 mm) 43.3 x 27.9 x 13.2 inches (1099.4 x 709.0 x 334.1 mm)	 48.6 x 28.2 x 2.2 inches (1235.2 x 715.1 x 54.7 mm) 48.6 x 31 x 13.2 inches (1235.2 x 786.7 x 334.1 mm)
Weight Without Stand With Stand	 30.9 lbs (14.0 kg) 35.5 lbs (16.1 kg)	 37.3 lbs (16.9 kg) 42.1 lbs (19.1 kg)
Model Name	HG65NE890U	
Display Resolution	3840 x 2160	
Stand Swivel (Left / Right)	0°	
Screen Size (Diagonal)	65" Class (64.5" measured diagonally)	
Sound (Output)	20 W	
Dimensions (W x H x D) Body With stand	 57.3 x 33.1 x 2.1 inches (1456.1 x 840.4 x 54.4 mm) 57.3 x 36.4 x 14.9 inches (1456.1 x 924.3 x 378.7 mm)	
Weight Without Stand With Stand	 51.1 lbs (23.2 kg) 58.9 lbs (26.7 kg)	

✎ Design and specifications are subject to change without prior notice.

✎ This device is a Class B digital apparatus.

✎ For power supply and power consumption information, refer to the label attached to the product.

Supported Resolutions for UHD Input Signals

- Resolution: 3840 x 2160p, 4096 x 2160p

  ✎ An HDMI connection with **HDMI UHD Color** set to **Off** supports up to UHD 50P/60P 4:2:0 input signals, while an HDMI connection with **HDMI UHD Color** set to **On** supports up to UHD 50P/60P 4:4:4 and 4:2:2 input signals.

If HDMI UHD Color is set to Off

Frame rate (fps)	RGB	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
24 / 25 / 30	O	O	O	-
50 / 60	-	-	-	O

If HDMI UHD Color is set to On

Frame rate (fps)	RGB	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
24 / 25 / 30	O	O	O	-
50 / 60	O	O	O	O

Display Resolution

When you use your TV as a computer monitor, you can also select one of the standard resolutions listed in the Resolution column. The TV will automatically adjust to the resolution you choose.

Mode	Resolution	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
IBM	720 x 400	70 Hz	31.469	70.087	28.322	-/+
MAC	640 x 480	67 Hz	35.000	66.667	30.240	-/-
	832 x 624	75 Hz	49.726	74.551	57.284	-/-
	1152 x 870	75 Hz	68.681	75.062	100.000	-/-
VESA DMT	640 x 480	60 Hz	31.469	59.940	25.175	- / -
	640 x 480	72 Hz	37.861	72.809	31.500	- / -
	640 x 480	75 Hz	37.500	75.000	31.500	- / -
	800 x 600	60 Hz	37.879	60.317	40.000	+ / +
	800 x 600	72 Hz	48.077	72.188	50.000	+ / +
	800 x 600	75 Hz	46.875	75.000	49.500	+ / +
	1024 x 768	60 Hz	48.363	60.004	65.000	- / -
	1024 x 768	70 Hz	56.476	70.069	75.000	- / -
	1024 x 768	75 Hz	60.023	75.029	78.750	+ / +
	1152 x 864	75 Hz	67.500	75.000	108.000	+ / +
	1280 x 720	60 Hz	45.000	60.000	74.250	+ / +
	1280 x 800	60 Hz	49.702	59.810	83.500	- / +
	1280 x 1024	60 Hz	63.981	60.020	108.000	+ / +
	1280 x 1024	75 Hz	79.976	75.025	135.000	+ / +
	1366 x 768	60 Hz	47.712	59.790	85.500	+ / +
	1440 x 900	60 Hz	55.935	59.887	106.500	- / +
	1600 x 900RB	60 Hz	60.000	60.000	108.000	+ / +
	1680 x 1050	60 Hz	65.290	59.954	146.250	- / +
	1920 x 1080	60 Hz	67.500	60.000	148.500	+ / +
	1920 x 1200	60 Hz	74.556	59.885	193.250	- / +

Mode	Resolution	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
CEA-861	720(1440) x 576i	50 Hz	15.625	50.000	27.000	- / -
	720(1440) x 480i	60 Hz	15.734	59.940	27.000	- / -
	720 x 576	50 Hz	31.250	50.000	27.000	- / -
	720 x 480	60 Hz	31.469	59.940	27.000	- / -
	1280 x 720	50 Hz	37.500	50.000	74.250	+ / +
	1280 x 720	60 Hz	45.000	60.000	74.250	+ / +
	1920 x 1080i	50 Hz	28.125	50.000	74.250	+ / +
	1920 x 1080i	60 Hz	33.750	60.000	74.250	+ / +
	1920 x 1080	24 Hz	27.000	24.000	74.250	+ / +
	1920 x 1080	25 Hz	28.125	25.000	74.250	+ / +
	1920 x 1080	30 Hz	33.750	30.000	74.250	+ / +
	1920 x 1080	50 Hz	56.250	50.000	148.500	+ / +
	1920 x 1080	60 Hz	67.500	60.000	148.500	+ / +
	3840 x 2160	24 Hz	54.000	24.000	297.000	+ / +
	3840 x 2160	25 Hz	56.250	25.000	297.000	+ / +
	3840 x 2160	30 Hz	67.500	30.000	297.000	+ / +
	3840 x 2160	50 Hz	112.500	50.000	594.000	+ / +
	3840 x 2160	60 Hz	135.000	60.000	594.000	+ / +
	4096 x 2160	24 Hz	54.000	24.000	297.000	+ / +
	4096 x 2160	25 Hz	56.250	25.000	297.000	+ / +
	4096 x 2160	30 Hz	67.500	30.000	297.000	+ / +
	4096 x 2160	50 Hz	112.500	50.000	594.000	+ / +
	4096 x 2160	60 Hz	135.000	60.000	594.000	+ / +
HDMI	3840 x 2160	30 Hz	67.500	30.000	297.000	+ / +
	3840 x 2160	25 Hz	56.250	25.000	297.000	+ / +
	3840 x 2160	24 Hz	54.000	24.000	297.000	+ / +
	4096 x 2160	24 Hz	54.000	24.000	297.000	+ / +

✎ NOTE

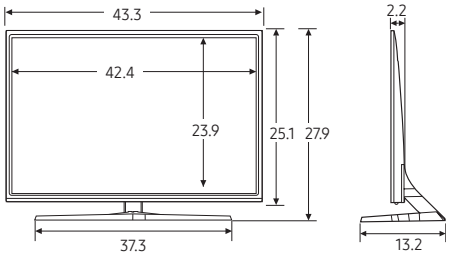
- The interlaced mode is not supported.
- The set might operate abnormally if you select a non-standard video format.
- Separate and Composite modes are supported. SOG (Sync On Green) is not supported.

Dimensions

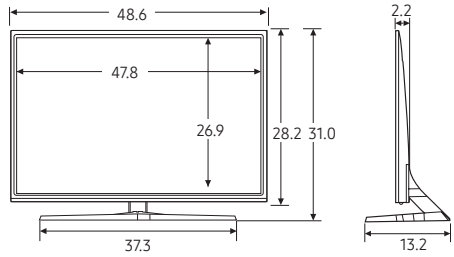
Front view / Side view

(Unit: inches)

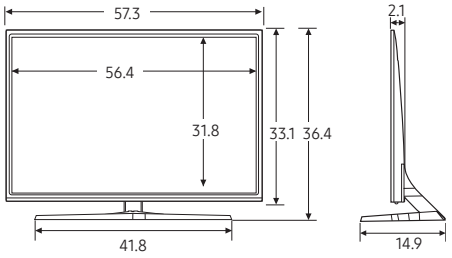
◆ HG49NE890U



◆ HG55NE890U



◆ HG65NE890U



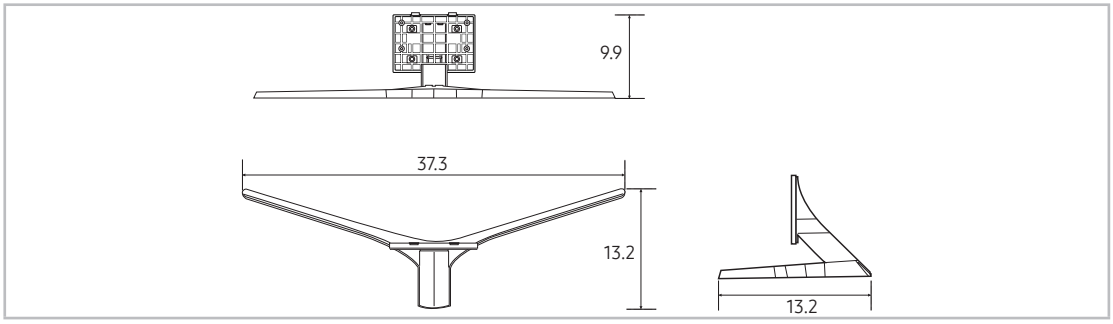
Jack panel detail / Rear view

✎ Detailed dimensions can be checked at Displaysolutions.samsung.com.

Base Stand detail

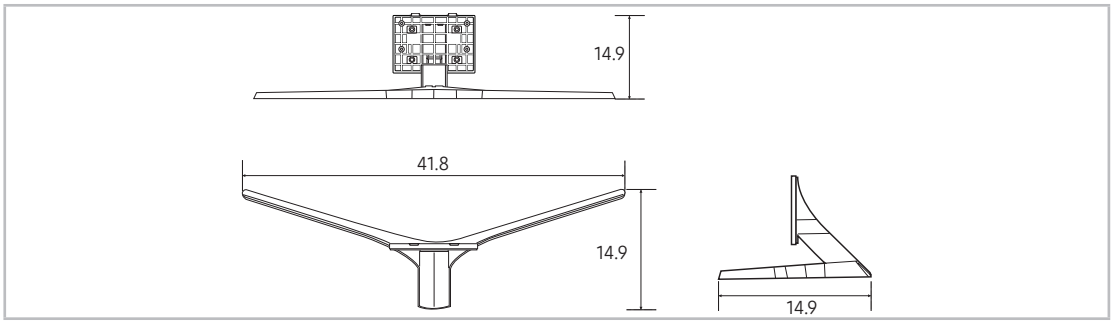
◆ HG49NE890U / HG55NE890U

(Unit: inches)



◆ HG65NE890U

(Unit: inches)



✎ NOTE

All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions prior to performing installation of your TV. Not responsible for typographical or printed errors.

Important Warranty Information Regarding Television Format Viewing

✎ See the warranty card for more information on warranty terms.

Wide screen format LED Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark sidebars on nonexpanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven LED aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

- SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT

  Subject to the requirements, conditions, exclusions and limitations of the original Limited Warranty supplied with Samsung Electronics (SAMSUNG) products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only.

  The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Transportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product.

  Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

  For the location of a SAMSUNG Authorized Service Center, please call toll-free:

  – In the United States: 1-866-sam4biz
  – In Canada: 1-800-213-8513

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