RoboSHOT 12 USB Version 2.1.2

Release Notes – December 9, 2016

Affected firmware

Component	Version
System	2.1.2

Additions and Enhancements

- Camera settings now include Wide Dynamic Range as an option in auto-iris mode. Note that backlight compensation cannot be used in Wide Dynamic Range mode.
- Colors now appear more natural.
- The Telnet command `streaming settings get` now returns USB streaming settings as well as IP streaming settings.
- A new soft DIP switch on the System page of the web interface allows UVC-compliant or custom mode to provide more flexibility in supporting web conferencing applications.
- We have improved the product's performance in applications that comply with the UVC 1.1 specification.

Fixed Issues

While using UVC absolute PTZ controls, quick changes of direction could result in the camera stopping at an unexpected position. This has been fixed.

Known Issues

At this time there are no known issues with this release.

Interoperability

RoboSHOT Cat-5, USB, HDMI, and HD-SDI cameras using version 2.1.0 or newer firmware can be used with RoboTRAK Presenter Tracking Systems.

Backward Compatibility

No backward compatibility issues have been found in testing.

Browser Support

We have tested this product with these web browsers:

- Chrome®
- Firefox®
- Microsoft® Internet Explorer®
- Safari®
- Microsoft® Edge

We test using the browser version available from the vendor at that time. Older versions of these browsers are likely to work, and other browsers may also work.

Firmware Update Instructions

Follow these steps to update your product's firmware.

Download the Firmware Update

Locate the link to download the firmware update from the website (RoboSHOT 12 USB Firmware Update 2.1.2, under the Software Updates heading), and click it. The file that downloads to your computer is `roboshotusb-web-update-complete-2.1.2.p7m`.

Get the Camera's IP Address

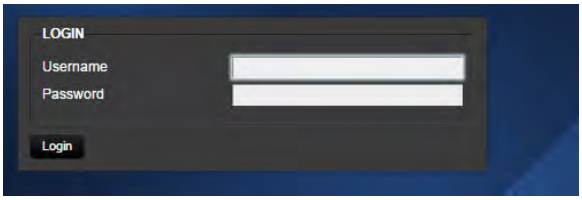
Press the Data Screen button on the remote. Within 3 seconds, the room display presents the camera's IP address and MAC address. Press the Data Screen button again to dismiss the information.

Access the System Screen in the Web Interface

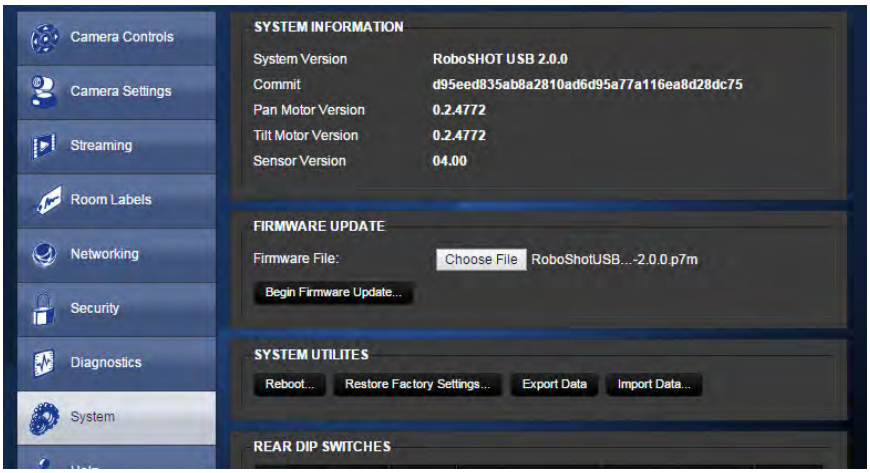
If you aren't already on the camera's System screen, here's how to get there.

Note
The camera's web interface will look slightly different.

1. Open a browser or a new browser tab.
2. Enter the camera's IP address in the address bar. Either a login screen or a guest access screen opens.
3. If the login screen opens, log in with the username **`admin`** and the admin password.
   If the guest access screen opens, click Admin. Then enter the admin password in the login box.



4. Click System from the navigation bar to go to the System screen.

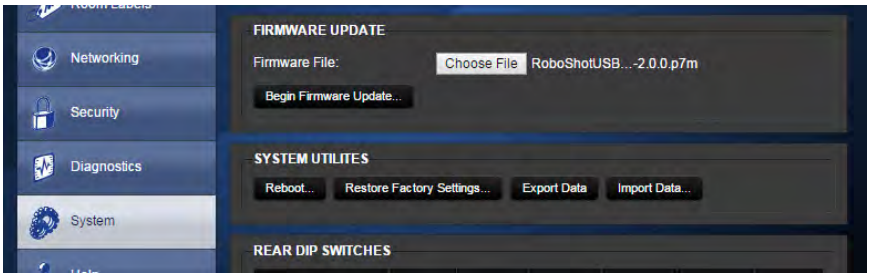


Update the Firmware

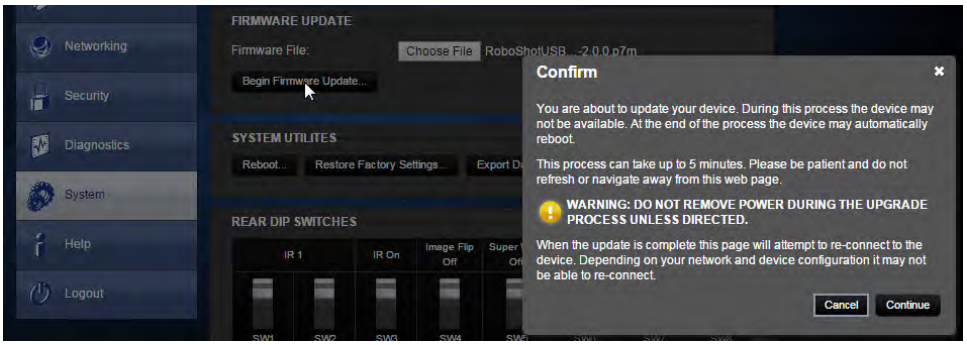
Note

Your camera's web interface will look slightly different.

1. Click Choose File, browse to the firmware update file that you downloaded, and select it. The filename ends with `.p7m`.
   The screen then displays the filename beside the Choose File button.



2. OPTIONAL: Click Export Data to save a copy of the camera's current configuration. You probably won't need it, but it could save time if you need to roll back the update.
3. Click Begin Firmware Update. A confirmation dialog box opens.
4. Please READ the information in the dialog box and be sure you understand it. It's boring, but it could save you a lot of time and aggravation.



5. When you are ready to start the update, click Continue. A progress message box opens and the indicator light on the front of the camera turns yellow to show the firmware update is in progress. The process may take a few minutes.
6. If the update process presents warnings or error messages, read them carefully.

When the update is complete, the camera restarts. This logs you out of the web interface.

Contact Vaddio technical support if you encounter any problems with the update.

Caution

Do not remove power or reset the camera while the indicator is yellow, showing a firmware update in progress. Interrupting a firmware update can make the camera unusable.

Firmware Release History: RoboSHOT 12 USB Versions 2.1.0/2.1.1

Release Notes – September 28, 2016

Affected firmware

Component	Version
System	2.1.1

Except where noted, these changes were made in version 2.1.0 and initially released in version 2.1.1.

Additions and Enhancements

- The camera has been updated to work with RoboTRAK.
- Default streaming settings have been changed to optimize streaming performance under most conditions.
- Constant bit rate (CBR) streaming option is now available in the web interface.
- Improved pan, tilt, and zoom performance when the camera is controlled by a conferencing application.
- USB streaming at 1080p/60 is now supported.
- Version 2.1.1 includes changes to improve camera testing and performance.

Fixed Issues

- Cameras now reach the full 90° upward tilt stated in the technical specifications.
- In some cases, turning the video output resolution switch, pausing momentarily, and turning it again could cause errors. This has been fixed.
- In some cases, the camera could continue to respond to joystick movements from a camera controller while going into standby mode. This could result in the camera standing by in an unexpected position. This has been fixed. The camera moves to the standby position and does not process any commands during the standby sequence.
- In some cases, custom home presets were not retained properly through firmware updates. This has been fixed.
- The **`ccu scene store`** command now works as documented.
- In a few instances during testing, using the camera's web interface to enable its IP stream caused an associated PCC Premier to lose the stream for its local video output. This only happened if the camera was in an address book group currently selected as Control A or Control B. This has been fixed.

Known Issues

In some cases, turning the video output resolution switch, pausing momentarily, and turning it again could cause errors. If this occurs, wait a few seconds and turn the switch again.

Interoperability

RoboSHOT Cat-5, USB, HDMI, and HD-SDI cameras using version 2.1.0 or newer firmware can be used with RoboTRAK Presenter Tracking Systems.

Backward Compatibility

No backward compatibility issues have been found in testing.

Browser Support

We have tested this product with these web browsers:

- Chrome®
- Firefox®
- Microsoft® Internet Explorer®
- Safari®
- Microsoft® Edge

We test using the browser version available from the vendor at that time. Older versions of these browsers are likely to work, and other browsers may also work.

Firmware Release History: RoboSHOT 12 USB Version 2.0.2

Release Notes – June 27, 2016

Affected firmware

Component	Version
System	2.0.2

Fixed Issues

This release addresses a video issue related to a recent hardware change. On very rare occasions, this issue has also been observed in older hardware.

Known Issues

At this time there are no known issues with this release.

Backward Compatibility

No backward compatibility issues have been found in testing.

Browser Support

We have tested this product with these web browsers:

- Chrome®
- Firefox®
- Microsoft® Internet Explorer®
- Safari®
- Microsoft® Edge

We test using the browser version available from the vendor at that time. Older versions of these browsers are likely to work, and other browsers may also work.

Firmware Release History: RoboSHOT 12 USB Version 2.0.1

Release Notes – May 19, 2016

Affected firmware

Component	Version
System	2.0.1

Additions and Enhancements

- Changing the IP streaming settings no longer requires the camera to reboot. However, if the camera is connected to a PCC Premier camera controller, the camera controller will not respond properly to the change of settings until you reboot the camera manually. The upcoming release of 1.1.1 firmware for PCC Premier will address this.
- This release also includes other improvements to the process of saving IP streaming settings.

Fixed Issues

- For RoboSHOT USB cameras connected to a Chromebox, power-cycling or rebooting the Chromebox caused issues in the camera's USB stream, sometimes requiring the camera to be rebooted. This has been addressed.
- In some installations where RoboSHOT cameras were connected to an AV Bridge MATRIX PRO, occasionally camera or video errors occurred, sometimes in connection with RS-232 camera control issues. Performance has been improved, but requires the MATRIX PRO to be at 1.0.4 and all connected cameras to be at the related version (2.0.2 for RoboSHOT / RoboSHOT HDMI, 2.0.1 for RoboSHOT USB / RoboSHOT HD-SDI).

Known Issues

In installations where RoboSHOT cameras are connected to an AV Bridge MATRIX PRO, flooding the MATRIX PRO with large numbers of camera commands in a very short time – for example, when sending numerous commands via Telnet or web interface – occasionally causes the attached cameras' tally indications stop functioning properly. When this happens, the diagnostic log shows errors stating that the tally command is not executable.

Backward Compatibility

No backward compatibility issues have been found in testing.

Browser Support

We have tested this product with these web browsers:

- Chrome®
- Firefox®
- Microsoft® Internet Explorer®
- Safari®
- Microsoft® Edge

We test using the browser version available from the vendor at that time. Older versions of these browsers are likely to work, and other browsers may also work.

Firmware Release History: RoboSHOT 12 USB Version 2.0.0

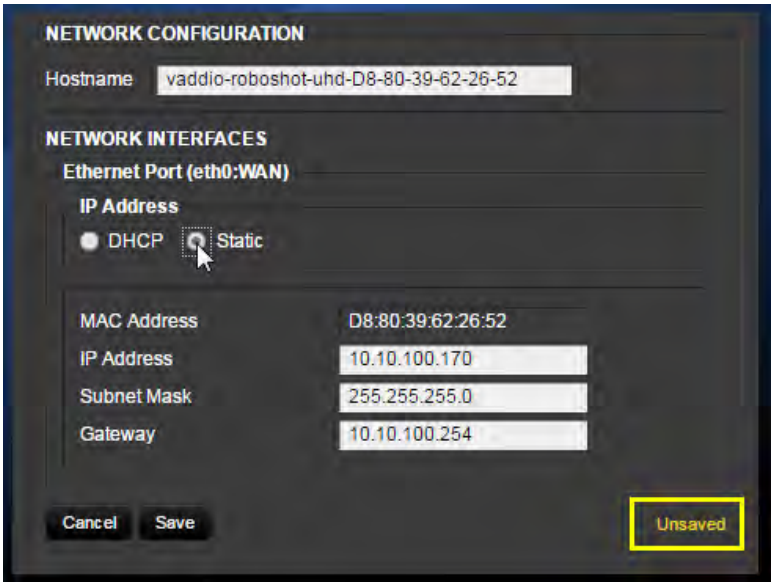
Release Notes – January 15, 2016

Affected firmware

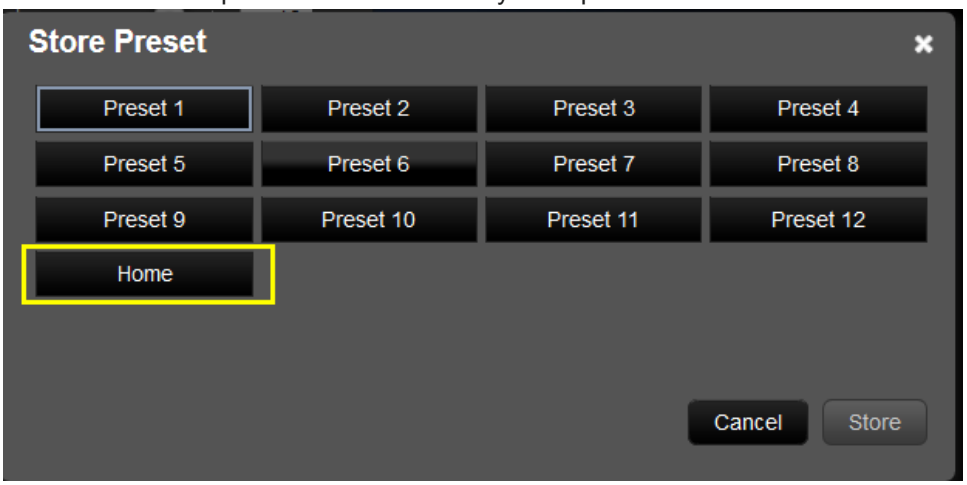
Component	Version
System	RoboSHOT 2.0.0
Pan Motor Version	0.2.4772
Tilt Motor Version	0.2.4772
Sensor Version	2.00 or 4.00

Additions and Enhancements

- Added real-time IP-based control for the PCC Premier.
- Enabled control over the USB connection. This is disabled by default, but can be enabled under the 'Streaming' tab in the Web UI.
- Added ability to import/export configurations for camera settings. This feature will only work when importing to the same firmware version as the exported file.
- Addition of two Telnet Commands for focus mode and standby state inquiry. Commands are as follows:
  - camera focus mode get
  - camera standby get
- Visual indication on Web UI of unsaved parameter which requires saving:



- Removed Default Start UP Location Preset and CCU Scene, replacing with the ability to set a custom home. This custom home preset can be set like any other preset.



Known Issues

Some Apple computers with OSX 10.9.x have issues handling USB 3.0 video, including video freezing. The issues seen in OSX 10.9.x have not been seen in OSX 10.10 or 10.11.

Backward Compatibility

No backwards compatibility issues have been found in testing. For users who wish to downgrade firmware (installing a previous version than what is currently on the camera) Vaddio recommends performing a factory reset on the camera. This is not necessary if installing a newer version of firmware.

Browser Support

We have tested this product with these web browsers:

- Chrome®
- Firefox®
- Microsoft® Internet Explorer®
- Safari®

Firmware Release History: RoboSHOT 12 USB Version 1.0.2

Release Date: November 16, 2015

Affected firmware

Component	Version
System	RoboSHOT USB 1.0.2
Pan Motor Version	0.2.4772
Tilt Motor Version	0.2.4772
Sensor Version	2.00 or 4.0.0

Fixed Issues

- In previous releases, under certain circumstances, sustained fast motion in the field of view could cause USB streaming to freeze. This has been resolved.
- Added pullup resistors on FPGA to address board-level manufacturing faults. This yields no customer-facing changes.

Known Issues

- When recalling a tri-sync preset stored with CCU Scene information ProductionVIEW Controllers and Switchers can incorrectly report Auto White Balance and Auto Iris status, this will be addressed in an upcoming ProductionVIEW Controller release, along with additional enhancements.
- Some Apple computers with OSX 10.9.x have issues handing USB 3.0 video, including video freezing. The issues seen in OSX 10.9.x have not been seen in OSX 10.10.

Backward Compatibility

No backward compatibility issues have been found in testing.

Unless otherwise noted, Vaddio products are tested for compatibility with the current versions of these browsers:

- Chrome® (latest version),
- Firefox® (latest version),
- Microsoft® Internet Explorer® (versions 8 through 11)
- Safari® (versions 6 and 7)

Other browsers may also work.

Firmware Release History: RoboSHOT 12 USB Version 1.0.1

Release Notes – September 11, 2015

Affected firmware

Component	Version
System	RoboSHOT 1.0.1
Pan Motor Version	0.2.4772
Tilt Motor Version	0.2.4772
Sensor Version	2.00 or 4.00

Additions and Enhancements

- USB gamepad support has been added. See the Application Note for more information.
- Pan/Tilt/Zoom axis inversion to fully support inverted operation.



- Increased web session timeout from 10 to 30 minutes – gives users more flexibility when configuring or operating RoboSHOT via Web UI.
- Additional streaming resolutions – Allows users to select different easy and custom IP streaming configurations beyond 1080p, for maximum flexibility and greater control network bandwidth usage.
- Adjusted iris gain values – range of acceptable Iris Gain values is now 0-11. Previously it was 0-15.

Fixed Issues

- API Commands for Red_Gain and Blue_Gain had incorrect help text. This has been fixed.
- Resolutions with 4:3 Aspect Ratios were not being cropped, they were being stretched; this was only on IP and USB streaming resolutions. This has been fixed.
- RoboSHOT 12 USB would not always end the USB stream when a Mac-based application was done with the USB stream. This has been improved.

Known Issues

- When recalling a tri-sync preset stored with CCU Scene information ProductionVIEW Controllers and Switchers can incorrectly report Auto White Balance and Auto Iris status, this will be addressed in an upcoming ProductionVIEW Controller release, along with additional enhancements.
- Some Apple computers with OSX 10.9.x have issues handing USB 3.0 video, including video freezing. The issues seen in OSX 10.9.x have not been seen in OSX 10.10.

Backward Compatibility

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Browser Support

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Other browsers may also work.

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