

Release Notes and Update Instructions

RoboSHOT 12/12E/30/30E HDBT Cameras

Current Release

RoboSHOT[®] 12/12E/30/30E HDBT 3.7.0

February 21, 2023

New Features

- You can now send Command Line Interface SHell (CLISH) commands using SSH as a secure alternative to Telnet. SSH access is disabled by default, and can be enabled on the device's Security page.
- You can now restore factory defaults using the IR remote:
 1. Press the Data Screen button.
 2. Clear preset 1, then clear preset 5.
 3. Press the Data Screen button again. The camera enters standby mode and is ready to restore defaults.
 4. Disconnect power, then reconnect. The camera returns to factory default settings.
- The camera now provides the option to return to its last known PTZ position when coming out of standby. The new setting is available on the System page's General tab.
- The camera `chained-preset { recall <chain> | stop }` CLISH command is now available if any preset chains have been defined in the camera's web interface.

Improvements

- When coming out of standby, the camera now goes directly to its expected position (the user-defined home preset or last known PTZ position, depending on settings) without first moving to the factory default home position.
- Improved support for VISCA-over-IP with some codecs. This feature is experimental. Please contact Vaddio technical support if you encounter issues using it.
- In some cases, changing the Auto Standby setting while the camera was in standby mode could cause the camera to get stuck in standby mode. This has been fixed.
- In some situations, the camera's anti-flicker filter setting was not applied after a change in video resolution. This has been fixed.
- The manual focus and focus near buttons on the remote did not behave as expected for cameras using IR channels 2 and 3. This has been fixed.

Release History

RoboSHOT 12/12E/30/30E HDBT 3.6.0

November 29, 2021

New Features

- Added a new Zoom Client color settings profile. (System page, General tab). To retain this setting through reboots, select it and save the Home preset with color settings.
- An anti-flicker filter is now available for cameras using 50 Hz mains power. The setting is on the web interface's System page, General tab.

Improvements

- When the camera was used with a OneLINK Bridge, power-cycling the OneLINK Bridge could result in the IP stream containing video but no audio. This has been fixed.
- When used in a RoboTRAK system, the camera could stop tracking properly. This has been fixed.

RoboSHOT 12/12E/30/30E HDBT 3.5.0

June 9, 2021

Improvements

- The camera could periodically lose its network connection very briefly. This has been fixed.
- On DHCP-enabled devices, it was possible to have more than one gateway address listed. This has been fixed.
- In some cases, the web interface did not correctly reflect the video mute state after the camera received a RS-232 (VISCA) command. This has been fixed.
- RS-232 (VISCA) pan/tilt inquiries could sometimes return incorrect information or error codes. This has been fixed.
- The range of zoom values available for the `camera zoom set CLISH` command was not correct. This has been fixed.
- On older cameras with physical DIP switches, the camera ID setting (IR channel) could revert to camera 1 after a firmware update. This has been fixed.

RoboSHOT 12/12E/30/30E HDBT 3.4.0

January 18, 2021

New Features

- You can now create programmed sequences of shots using the preset chains feature.
- To enhance soft conferencing client compatibility, the new "Display Video During Standby Transition" setting on the System > General tab allows the camera to start sending video immediately on return from standby, rather than waiting until it reaches its Home position.
- Added the CLISH command `camera focus ir-correction { standard | ir-light | get }` for IR correction mode control.
- Added VISCA-over-IP support. This feature is experimental. Please contact Vaddio technical support if you encounter issues using it.
- We have placed a link to the company's standard privacy notice on this product's Help page and on the Initial Device Set-Up page. This product does not record or save audio or video files, and it does not store any identifying information other than what you may choose to enter on the Room Labels page of the web interface. However, the device's IP address is considered "personally identifiable information" for the purposes of the privacy notice. This information is stored for display to the user, but not otherwise shared or transmitted.

Improvements

- Camera behavior settings previously presented on the DIP Switches tab of the System page are now on the General tab.
- The camera now tracks more accurately when used as an element of a RoboTRAK system.
- Improved IR remote compatibility.

Notes

- Following a firmware update, the Point Light Compensation setting and Camera ID (IR channel) setting revert to their default values.
- All RoboSHOT HDBT cameras provide a setting for HDMI color space in the administrative web interface. Older RoboSHOT HDBT cameras have a DIP switch on the back for this; it determines the setting following a reboot, but the setting in the web interface subsequently overrides it. This will be addressed in a future release.
- On older RoboSHOT HDBT cameras (those with DIP switches), IP streaming stability has been observed to degrade at some point after 4 hours. This is under investigation.

RoboSHOT 12/12E/30/30E HDBT 3.3.0

April 3, 2020

Improvements

- CLISH commands to set hostnames and other user-definable strings now accept hyphens.
- On some mobile devices, the "Exit Standby" button was not accessible. This has been fixed.
- After updating firmware, the Telnet enabled/disabled status shown in the web interface could become out of sync with device behavior. This has been fixed.
- Cameras using the previous firmware release could display the rotary and DIP switches incorrectly in the web interface, and changes to physical switch positions might not be recognized. This has been fixed.
- In some cases, firmware updates could fail. This has been fixed.

RoboSHOT 12/12E/30/30E HDBT 3.2.1

December 16, 2019

New Features

- If you restore factory defaults, the camera now requires an initial setup step to make the administrative controls and other functionality available. In this initial step, you must set the admin password. This is also required for initial access to cameras that ship with this version of firmware. See [Initial Set-Up Procedure](#). After completing the initial setup, you have the option of enabling streaming and other disabled features. At this time, setting the admin password is the only task in the initial setup procedure.

Note: You can operate the camera with the remote even if no password is set.

- When static IP addressing is selected, the administrator can specify a DNS server.
- Added support for long press right-clicking on iOS devices.
- Added CLISH command `camera ptz-position {{pan | tilt | zoom} <position> [no_wait]}` to specify multiple-axis movements to absolute positions. The optional `no_wait` parameter allows the command to return the command prompt immediately, while the requested camera movement is still in progress. The command `camera ptz-position get` returns the camera's current pan, tilt, and zoom positions.
- Added CLISH command `camera icr { get | on | off }` to control the camera's IR cut filter. When the filter is on, the video image is black and white.

Improvements

- Security improvements include changes to the default settings for:
 - HTTP access is disabled. To connect using HTTPS, type `https://` followed by the IP address. Because Vaddio uses self-signed certificates, your browser will present warning messages indicating that you are trying to access an unsafe website; however, this is a secure connection to the camera and traffic will be encrypted.
 - Streaming is disabled.
 - Telnet access is disabled.
- Disabled TLS v1.1 protocol. More recent protocols continue to be supported.
- The CLISH command `network settings get` now includes the camera's hostname in the information it returns.
- The CLISH command `camera ccu get` now returns all camera ccu settings if no parameter is specified.
- In some cases, the camera reported its zoom position inaccurately after a very small change in zoom level. This has been fixed.
- The top speeds for Global Preset Non-Tri-Sync Speeds have been reduced to provide better control in certain conferencing applications.
- If the camera was rebooted while the LED was disabled, and the LED was subsequently enabled, it could display incorrect status indications. This has been fixed.
- If a custom home preset was stored while the camera was in manual focus mode, and the home preset was subsequently cleared, attempting to select the home preset could generate an error message. This has been fixed.
- Improved out-of-range error messages for CLISH commands specifying movements by absolute position.
- CLISH commands now recognize the appropriate ranges of values for various camera settings, such as iris.
- The RS-232/VISCA-type command `CAM_Freeze` now behaves as expected.
- Occasionally, the camera could lose its HDBaseT connection if it remained in standby for extended periods. This has been fixed.
- When streaming at resolutions with aspect ratios other than 16:9, the image could be displayed at an incorrect aspect ratio. This has been fixed.
- Exporting data to an Android device now works properly.

Notes

- If controlling this camera with any of the following devices, the device may require a firmware update to be able to control the camera via IP.
 - PCC Premier
 - RoboTRAK
 - AV Bridge MATRIX PRO
 - AV Bridge MatrixMIX
 - OneLINK Bridge

RoboSHOT 12/12E/30/30E HDBT 3.1.0

May 13, 2019

New Features

- (RoboSHOT 12E/30E HDBT only) The previously unused Position 0 on the rotary switch now enables software control of video output resolution. When the switch is set to software control mode, the administrator sets video resolution via the web interface, on the General tab of the System page.

Improvements

- In the admin web interface, various camera behavior settings have moved from soft DIP switches to the General tab of the System page. The basic behavior settings (camera ID, IR on/off, image flip, baud rate, control mode) remain on the DIP switches tab of the System page.
- Some parameters were incorrectly stored in CCU scenes and in presets stored with color information. This has been fixed.
- Executing several pan, tilt, or zoom to absolute position commands in quick succession could generate error messages. This has been fixed.
- When changing camera settings from a connected device, in some cases the camera's web interface did not immediately reflect the change. This has been fixed.
- In some cases, the web interface did not load properly if the computer had recently accessed another Vaddio device at the same IP address. This has been fixed.

RoboSHOT 12E/30E HDBT 3.0.1

February 15, 2019

Notes

- Initial Release.

RoboSHOT 12/30 HDBT 3.0.1

February 15, 2019

New Features

- Added support for RTMP streaming. This is configured in the admin web interface and can be enabled/disabled in both the admin and the user web interface.

Improvements

- Improved handling of HDMI hot-plug events.
- Improved camera behavior during lengthy camera operations.
- Improved camera behavior when an operator rapidly and repeatedly cancels and restarts camera operations.

RoboSHOT 12/30 HDBT 1.3.0

November 16, 2018

New Features

- Support for UVC proxying from a OneLINK Bridge to enable far-end control when used with some third-party soft codec clients like Zoom that support UVC standards.
- One Push White Balance can now be executed through the web interface.
- HTTPS access to the camera is now supported and the HTTPS certificate can now be configured from the admin web interface.
- HTTP access to the camera can now be disabled by an admin. When this is disabled, HTTPS must be used to connect to the web interface.
- Added ability for the administrator to disable the camera's Telnet server through the web interface.
- Support for DNS Service Discovery.
- Initial public REST API.
- Soft DIP in admin web interface to turn off the camera's LED during standby instead of displaying its normal standby color.
- CLISH command to allow Streaming Enabled status to be toggled: `streaming ip enable toggle`
- CLISH commands for setting or getting the camera's gamma values: `camera ccu set gamma <value>` and `camera ccu get gamma`.
- Serial command to retrieve the camera's IP address: `[81 09 08 4E 00 00 FF]`.
- Ability for IR commands to forward over the HDBaseT connection.
- Advanced streaming settings for enhanced compatibility with VPN environments.
- Ability to configure MTU setting for IP streaming packets.

Improvements

- Improved HDBaseT link negotiation.
- Enhanced support for USB joystick control.
- Update for Codec Control Mode improving camera focus when used via some third-party codecs.
- Discontinued support for DES and 3DES cyphers and TLS v1.0 protocol. More recent cyphers and protocols continue to be supported.
- Main navigation bar of the web interface now has tooltips when collapsed.
- Iris gain is now shown in dB values in web interface.
- IR address DIP switch behavior now more closely reflects documentation.
- Improved internal firewall settings.
- Camera's Pan/Tilt controls now invert to normalize control when Image Flip is On.
- Soft DIP changes no longer execute while camera is in standby, which could previously cause issues when coming out of standby.
- Improved timing of serial response when camera has completed certain commands.
- Updated syntax for `network ping count` CLISH command.
- Web interface populates page information even more quickly.

Notes

- If the camera's custom Home preset takes an extremely long time to execute (>45 seconds), the camera may not fully exit standby. Storing the Home preset with a faster speed will solve this issue.
- Sometimes after updating from an older version of firmware the camera's IR service will fail to start during the first boot after the update. This error can be cleared by power cycling the camera.

RoboSHOT 12/30 HDBT 1.2.0

December 8, 2017

New Features

- Added Codec Control Mode for Polycom® 3xx/5xx/7xx series codecs.
- Added Codec Control Mode for Cisco® sX20 and SX80 series codecs. (Note: for SX20 codecs, Vaddio recommends the codec's firmware be updated to latest "CE" series firmware for best operation).
- Soft DIP switch and CLISH command to allow disabling of the front LED.

Improvements

- Updated time zone information.
- Ability to import configurations from previous versions of software.

Notes

- If previously selected time zone is deprecated during a time zone information update, the settings for the camera will default back to UTC.

RoboSHOT 12/30 HDBT 1.1.0

July 19, 2017

New Features

- Added audio to IP streaming on HDBT sources.
- Added ability to route incoming HDBT audio (from a OneLINK Bridge or other source) to either the camera's IP stream output or both the IP stream output and the local HDMI output.

Improvements

- Improved gamma handling over serial connections.
- Updated gamma range for RoboSHOT 30 HDBT cameras.
- Updated HDBaseT parameters for enhanced device interoperability.
- Updated for wide dynamic range setting over RS-232.

RoboSHOT 12/30 HDBT 1.0.1

January 19, 2017

Improvements

- Corrected motor configuration on RoboSHOT 12 HDBT units home position.
- Updated default IP streaming setting to "720p Better".

RoboSHOT 12/30 HDBT 1.0.0

November 28, 2016

Notes

- Initial release.

Initial Set-Up Procedure

If you are updating from version 3.1.0 or earlier, you will need to set a password for the `admin` account immediately after completing the update. You may also need to change the security settings, as the default settings have changed.

Refer to the product's manual for specific instructions to discover its IP address and access its web interface.

To access the web interface, type `https://` followed by the IP address.

Before the product is configured, HTTP access is disabled. It can be re-enabled after you set the admin password.

Expect a security warning from your browser. The certificate (the product's website security credential) is self-signed rather than being issued by an external certificate authority.

Different browsers will respond with different messages and options. Your browser will probably present a message indicating one of these things:

- The connection is not private
- The site is not secure
- The site is not trusted
- The site poses a security threat

Despite the security warning, the HTTPS connection is secure and traffic is encrypted.

To proceed to the product's web interface, you will need to make the selections that your browser's security message discourages. The security warning page may present an option to learn more, view details, or go to the "Advanced" page. When you select the applicable option, your browser provides a button or link to continue to the IP address you entered, with a reminder that it may be unsafe. Select this option.

After you have accessed the product's web interface once, your browser may remember its IP address and not present the security message again.

Set the admin password. If there are other tasks on the page (such as reading and accepting policies and agreements), complete them also.

Note: This page includes a link to the company's standard privacy policy. This product does not record or save audio or video files, and it does not store any identifying information other than what you may choose to enter on the Room Labels page of the web interface. However, the device's IP address is considered "personally identifiable information" for the purposes of the privacy policy.

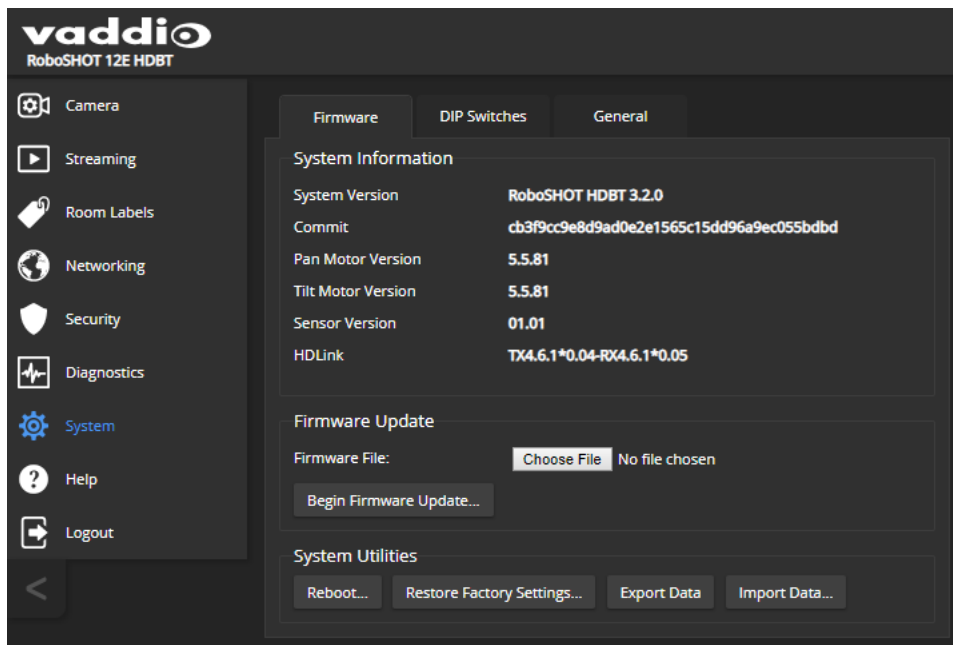
Firmware Update Instructions – RoboSHOT HDBT

The process for updating firmware is the same for virtually all Vaddio products. *Your device's web interface may display different information from the screen shot in this procedure.*

Caution

The camera must remain connected to power and to the network during the update. Interrupting the update could make the camera unusable. If the update does not run, DO NOT DISCONNECT POWER. Call Vaddio Tech Support immediately: +1 763-971-4400 or 800-572-2011.

1. Download the firmware file if you have not done so already.
2. Access the device's web interface and log in as `admin`.
3. On the System page, select Choose File and select the file you downloaded. Then select Begin Firmware Update.



4. Read the Confirm dialog box, then select Continue. You will be prompted to log in again when the process is complete.

This update can take up to 5 minutes to complete. While you're waiting, you could try the following:

- Embrace the boredom! Measure the room dimensions by counting the ceiling tiles.
- Decide what you would name a new planet, in case you discover one. Be prepared!
- Think about what super-power you would like to have. Do you have a super-power already?

After the update is complete, the System page will display the new firmware version under System Information. Enjoy that new-firmware smell!

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