

PCC MatrixMIX Live Production Controller

Release Notes and Update Instructions

Current Release

Date: February 3, 2026
Version: PCC MatrixMIX 2.1.0

New Features

- Added support for login over telnet without a password.
- Added show/hide button when entering passwords.
- Added support for 256 camera presets via clish.
- Added CLISH 'info' command to query product and room label information.

Improvements

- Added factory reset option to touch UI.
- Improved touchscreen performance.
- Fixed a bug that caused passwords with a colon in them to not work properly.
- Improved Telnet session connectivity.
- Fixed a bug that caused the tally light to be set incorrectly on connected cameras.
- Fixed a bug that caused discovered devices to not display properly.
- Various infrastructure updates.

Release History

Date: December 6, 2022
Version: PCC MatrixMIX 2.0.0

PCC MatrixMIX and PCC AV Bridge MatrixMIX must both be running a firmware version of 2.0.X to work properly together.

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.

Date: July 1, 2022

Version: PCC MatrixMIX 1.5.0

PCC MatrixMIX and PCC AV Bridge MatrixMIX must both be running a firmware version of 1.5.X to work properly together.

New Features

- A new Telnet command, camera 1 comm host discover, returns the IP addresses and room labels of cameras that are available to be paired with the device. This corresponds to the Discover Devices button in the web interface's Input Pairing dialog box.
- New Telnet commands switch effect and switch duration set or get information about video transitions. Syntax and available effects depend on whether A/B Mode or Dual-Bus Mode is in use. See Notes.
- 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.

Improvements

- The setting to place connected cameras in standby mode when the device enters standby has been moved from the User Interface page and is now on the System page, General tab.
- Enhanced compatibility with the Vaddio Device Controller.
- On some mobile devices, the "Exit Standby" button was not accessible. This has been fixed.
- On DHCP-enabled devices, it was possible to have more than one gateway address listed. 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.
- The mailto: links on the web interface's Help page did not always open the computer's mail application. This has been fixed.
- Corrected an issue that could potentially cause the Discover Devices button not to work.
- When a camera supporting preset chains was replaced on the same input with a camera lacking this feature, the web interface could still present the controls for preset chains. This has been fixed.

Notes

- A/B Mode syntax for the command switch effect is `switch effect { get | set <A/B effect> }`
- Dual Bus Mode syntax for the command switch effect is `switch { program | preview } effect { get | set <Dual Bus effect> }`
- Effects available in both A/B Mode and Dual Bus Mode are *cut*, *dissolve*, *dip* (dip to black).
- Effects available in A/B mode only: *wipe_right*, *wipe_left*, *wipe_down*, *wipe_up*, *wipe_ULC* (upper left corner), *wipe_URC* (upper right corner), *wipe_LLC* (lower left corner), *wipe_LRC* (lower right corner), *wipe_center*
- A/B Mode syntax for the command switch duration is `switch duration { get | set <value> }`, where <value> is in milliseconds.
- Dual Bus Mode syntax for the command switch duration is `switch { program | preview } duration { get | set <value> }`, where <value> is in milliseconds.

Date: December 23, 2019

Version: PCC MatrixMIX 1.4.0

PCC MatrixMIX and PCC AV Bridge MatrixMIX must both be running a firmware version of 1.4.X to work properly together.

New Features

- If you restore factory defaults, the PCC MatrixMIX 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 devices that ship with this version of firmware. See [Initial Set-Up Procedure](#). After completing the initial setup, you have the option of enabling features that are now disabled by default. At this time, setting the admin password is the only task in the initial setup procedure.
- Added support for chained preset recall for Vaddio cameras which support the feature.
- Interface in the administrator web pages to discover and select Vaddio cameras that support DNS Service Discovery for IP control.
- Added support for long press right-clicking on iOS devices.
- When static IP addressing is selected, the administrator can specify a DNS server.
- The touch-panel interface now provides control of CCU scenes on connected PrimeSHOT 20 HDMI cameras.

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 device and traffic will be encrypted.
 - IP streaming is disabled.
 - Telnet access is disabled.
- Disabled TLS v1.1 protocol. More recent protocols continue to be supported.
- The Telnet command *network settings get* now includes the camera's hostname in the information it returns.
- Telnet commands to set hostnames and other user-definable strings now accept hyphens.
- Improved user experience when interacting with cameras that are in standby.
- Exporting data to an Android device now works properly.
- With certain combinations of serially-connected cameras, pairing the PCC MatrixMIX to an AV Bridge MatrixMIX resulted in the touch-panel interface of the PCC MatrixMIX restarting. This has been fixed.
- Fix for presets not always storing properly from the touch-screen display if cameras were recently swapped.
- Fix for the menu knob becoming temporarily stuck in the red state under certain circumstances.
- If a switcher-related tab was selected when a video-only input was active, the tab had no content. This has been fixed.

Notes

- Vaddio cameras with outdated firmware may become controllable only over an RS-232 connection. Updating camera firmware will restore the ability of the PCC MatrixMIX to control them via IP.
- Pairing more than one PCC MatrixMIX controller at a time to an AV Bridge MatrixMIX can produce unexpected results. Vaddio recommends pairing only one PCC MatrixMIX controller to an AV Bridge MatrixMIX at any given time.
- Some unnecessary debug information may be displayed on the web interface during the firmware update process.

Date: February 14, 2019

Version: PCC MatrixMIX 1.3.0

PCC MatrixMIX and PCC AV Bridge MatrixMIX must both be running a firmware version of 1.3.X to work properly together.

Improvements

- PIP (picture-in-picture) layout options now display icons rather than text description on the touch-panel display.
- 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.

Notes

- When using CCU scenes or presets with Panasonic cameras, inconsistent color reproduction may occur.
- Global Mute does not currently mute HDMI audio inputs as indicated.
- Large numbers of operations performed rapidly may cause the device to get into an undesirable state. A power-cycle will return the unit to normal operation.
- Video keying issues may occur when video from an HDCP source is sent to a non-HDCP-capable monitor.

Date: January 22, 2019

Version: PCC MatrixMIX 1.2.0

PCC MatrixMIX and PCC AV Bridge MatrixMIX must both be running a firmware version of 1.2.X to work properly together.

New Features

- Added support for the WideSHOT SE camera.
- Added support for the ZoomSHOT 30 camera.
- Added support for the PrimeSHOT 20 HDMI camera.
- Added support for the RoboSHOT 40 UHD camera.
- Added support for the RoboSHOT Elite series cameras.
- Quad Picture-In-Picture has been added as a layout option.
- Telnet command to change the Picture-In-Picture layout: [video { program | preview } pip { get | on | off | toggle | source {input1 – input8} | layout { get | upper_left | lower_left | upper_right | lower_right | top_bottom | left_right | quad } | dual_source { upper_half | lower_half | left_half | right_half } | quad_source { upper_left | lower_left | upper_right | lower_right }]
- VISCA-over-IP control support for Sony X-1000 and BRC-800 cameras, as well as existing supported cameras that offer VISCA-over-IP control.
- Support for DNS Service Discovery.

Improvements

- Iris and iris gain value formats are now standardized across all cameras.
- Custom preset labels are no longer overwritten when storing a preset from the touch panel. Custom labels can still be cleared by clearing the preset and then storing a new preset.
- On receiving a reboot instruction, the PCC MatrixMIX now performs a check to ensure your most recent configuration changes were successfully saved.
- Control of ClearVIEW HD-19 cameras is more responsive.
- Corrected various control issues related to behavior immediately after reboot.
- Improved behavior of the Audio page on the touch panel when toggling mic mixer inputs on a connected AV Bridge MatrixMIX.
- Presets are reliably stored on RS-232 connected ConferenceSHOT 10 cameras.

Notes

- Some DocCAM 20 HDBT, RoboSHOT HDMI, and RoboSHOT HD-SDI cameras may require this firmware update to be recognized by the PCC MatrixMIX.

Date: June 13, 2018

Version: PCC MatrixMIX 1.1.0

PCC MatrixMIX and PCC AV Bridge MatrixMIX must both be running a firmware version of 1.1.X to work properly together.

New Features

- Added support for DocCAM 20 HDBT and RoboSHOT IW cameras.
- HTTPS access to the AV Bridge MatrixMIX is now supported and the HTTPS certificate can now be configured from the admin web interface.
- HTTP access to the AV Bridge MatrixMIX can now be disabled by an admin. When this is disabled, HTTPS must be used to connect to the web interface.
- Ability for the administrator to disable the PCC MatrixMIX's Telnet server through the web interface.
- Telnet command to allow monitoring of front panel button presses: [monitor buttons].
- Telnet command to set hostname/IP for targeted PCC MatrixMIX unit.
- Ability to import configuration settings exported from other versions of firmware.
- Ability to execute pan-tilt reset on cameras that support this.

Improvements

- Added support for DocCAM 20 HDBT and RoboSHOT IW cameras. ▪ Discontinued support for DES and 3DES cyphers and TLS v1.0 protocol. More recent cyphers and protocols continue to be supported.
- The PCC MatrixMIX will now be able to label presets properly.

Notes

- The PCC MatrixMIX menu knob can become temporarily stuck in the red state under certain circumstances. Rebooting the PCC MatrixMIX should resolve the issue.
- Some audio configuration changes on a connected AV Bridge MatrixMIX unit may cause the PCC MatrixMIX touch UI audio tab to become non-functional until the PCC MatrixMIX is disconnected and reconnected, or until the PCC MatrixMIX is rebooted.

Date: August 30, 2017

Version: PCC MatrixMIX 1.0.00

Notes

- Initial release.

Initial Set-Up Procedure

If you are updating from version 1.3.0 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 in your browser's address bar.

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.

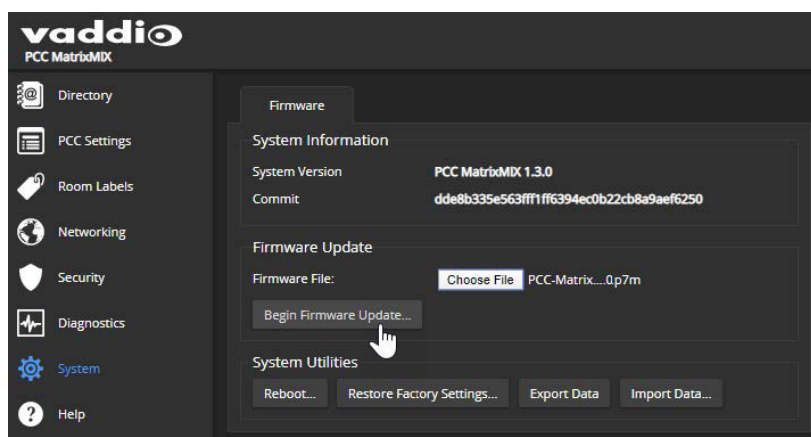
Firmware Update Instructions – PCC MatrixMIX

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.d.

CAUTION:

The device must remain connected to power and to the network during the update. Interrupting the update could make the device 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:

- Visualize a world in which you can always find socks that match, you never misplace your keys, and you never drop that one lug nut.
- Decide which Guinness World Record you might be able to break if you try really really really hard.
- Laze about, you've earned a quick rest!

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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