

AJA KUMO Release Notes - v4.7

Firmware for AJA KUMO

Introduction

KUMO firmware v4.7 is a feature and maintenance release. This is the first KUMO firmware release that supports the new KUMO 6464-12G router. It is highly recommended that you update firmware to avoid any potential issues.

Be sure to consult the Installation and Operation Guide (user manual) for detailed information about features and configuration guidelines. The most current documentation can always be found on the [KUMO Support page](#).

Products Supported in This Release

KUMO 1604
KUMO 1616

KUMO 3232
KUMO 6464

KUMO 1616-12G
KUMO 3232-12G

KUMO 6464-12G

KUMO CP
KUMO CP2

Fixes, Changes and Improvements in v4.7

KUMO Routers and Control Panels

- Adds support for the new KUMO 6464-12G router.
- Addresses a potential initialization issue that may prevent KUMO routers or control panels from booting up after a power cycle.

Features, Fixes, Changes and Improvements in Prior Releases

v4.6.2

- Improves SDI performance in KUMO 3232-12G.
- Fixes problem with CP and CP2 where the destination button cannot be re-enabled after being disabled.

- Fixes problem with CP2 where after disabling a source or destination in the lower or upper button bank, the panel incorrectly indicates a disabled source or destination in the other button bank for the same button position.

v4.6.1.6

- Increased router control support to 32 GV Native Protocol Ethernet control points.
- Added "Host UPnP" configuration option to the network page.
- GV Native Protocol improvements
 - Updated query response for BK, F.
 - Expanded Destination query to support Source names that contain dashes.
 - Added support for salvo name change status.
- Improved peer to peer communications between the KUMO Router and Control Panel.

v4.6.0

- Adds support for 32 router control points (such as router control panels, router control systems, etc). The previous limit was 16.

v4.5.0

- New support for KUMO 3232-12G and KUMO 1616-12G routers.
- Added IP configuration for all AJA KUMO routers and control panels (over USB port) using eMiniSetup v2.0.0 and later.
- Improves the SDI performance in KUMO-1616-12G and KUMO-3232-12G. All KUMO 1616-12G and 3232-12G products should be updated to v4.5.0.

v4.3.0.9

- Support for the new KUMO CP2 2RU Control Panel.
- A new Salvo feature has been added to all KUMO router models. Each KUMO router can have up to eight salvos. The Salvos are stored within each KUMO router and can be configured and executed using a web browser connected to the KUMO router's WEB UI.
- The KUMO CP2 Control Panel Salvo buttons (8 total) are used to select and trigger a pre-configured Salvo on the connected KUMO router.
- The Salvos can also be triggered via GV Native Protocol over their serial or Ethernet interfaces.

- The KUMO implementation of the GV Native Protocol now accepts leading zeros in Src/Dst strings, treats the Src/Dst addresses as hex values, fixes the return message for the Qi command, and supports Salvos.

v4.2.0.0

- Support for the new KUMO CP2 2RU Control Panel.
- Added User Authentication to the KUMO routers and KUMO control panels.
- KUMO CP 1RU Control Panel will now control the KUMO 6464 (when configured for Dual-Link and Quad-Link modes).
- A bug was introduced with version 4.1.0.5 firmware that resets the selected source for a locked destination when the destination is unlocked. This bug has been fixed. Now the selected source for the locked destination will be preserved when the destination is unlocked.
- The Reset to Factory Default function generally required a power cycle for a clean reboot of the KUMO router or control panel. This step is no longer required.

v4.1.0.5

- The KUMO CP can now be configured via the web server GUI to enable/disable any Source or Destination button(s).
- The KUMO product Serial Number is now correctly displayed in the webserver GUI.

v4.1.0.4

- Support for the new KUMO 6464 Router.

v3.1.0.7

- Fixed a problem with Internet Explorer browser not correctly loading the UI page in the KUMO router and the KUMO CP.
- Fixed a problem in Firefox version 25 (on Windows 8) where it does not display the bottom of the page correctly.
- Fixed a problem in the KUMO CP where the serial number is not displayed in the Windows Internet Explorer browser.
- Fixed a problem to ensure users cannot enter an illegal IP address when configuring a static IP address using the TAB key.

- Added the ability to reset AUTO Config with the KUMO CP (Hold down Router 1 button and the Destination “Shift” button for 4 seconds and the connection will be reset and re-established).
- Fixed a problem where destinations would not tally correctly on initial WEB UI startup.

v3.0.0.9

- Adds the ability to gang two and four physical connections together as a single virtual connection, allowing KUMO to route Dual Link and 4K signals as a single crosspoint.

v2.1.0.1

- Fixed problem with “Identify” LED not working from the web browser.
- Fixed error display problem when sending switching commands to KUMO using GVG Native Protocol. Command now states the correct status.
- Fixed problem in Native Protocol driver when adjusting source and destination names, where names would not change without a reboot.
- Added support for older REST API scripting (scripts utilizing HTTP GET/POST ‘/value’ and ‘/options’ syntax). Older scripts should not need changes, however, scripts utilizing ‘POST’ requests must add an additional flag (&type=’altPostResp’) to message in order for the message to succeed.
- Added Native Protocol command “QI” and “Qi”.
- Improved security features.

v2.0.1.34

- Released the new KUMO 3232 Router.
- Implemented the GVG Native Protocol for control of all KUMO routers.
- Note: Due to a wiring issue in existing KUMO routers, an adapter is required for control (Module – RS422 Crossover Adapter, part# 104521-00).
 - Existing KUMO routers have a model number ending in R0. The model number is on the bottom of the KUMO chassis, on the bar-coded label (“KUMO-1616-R0” or “KUMO-1604-R0”). Newer KUMO routers end in an “R1” and do not require the adapter.
 - To obtain the adapter, call AJA Customer Service at +1-530-271-3190.
- Improved communication for more reliable crosspoint tally.
- Fixed a problem with recovery after a power cycle to properly retain crosspoint selections.
- Fixed a problem where some units would not properly power on.
- Addressed an issue with properly reporting the “Intensity” on the configuration page.

- Addressed an issue where selections of destinations 5 to 16 could affect the KUMO 1604.

Additional Information

Although KUMO routers come from the factory pre-installed with firmware, it may not be as up-to-date as firmware posted on the AJA website. The following topics in these notes describe the steps required to upgrade the firmware in your AJA KUMO router.

Download the Latest KUMO Firmware

Current and past releases of KUMO firmware are available on AJA's website. To get the firmware, point your browser to:

<https://www.aja.com/support>

Select your KUMO Product and select the Mac or Windows icon next to the Software tab. Finally, select the firmware file and download it to your system for upgrading your local KUMO device.

Unpack the Firmware

KUMO firmware update files are compressed “ZIP” files, which you can open with a number of standard and third-party uncompressor applications. The firmware image that you’ll install on the KUMO is a file with a name like kumo_ver_1.0.0.3.bin or similar. Depending on your Mac or Windows operating system settings, the “.bin” extension may not be visible to you in a file directory.

Uploading and Installing the Firmware to the KUMO

Uploading and installing the firmware update only requires a Mac or Windows computer that can “see” the KUMO via its Ethernet connection. Follow this procedure to install the firmware:

1. Point your browser at the KUMO upgrade page by clicking on the “Firmware” menu link at the bottom of the application web page.
2. Click the “Choose File...” button to select the file you previously downloaded.
3. After you have selected a valid KUMO image file, click the “OK” button in the “Upload Firmware” prompt. The file you select will upload to the KUMO and be tested for validity. Incomplete, corrupted, or non-KUMO firmware files are rejected.
4. Click “Commit Uploaded Firmware” on the KUMO Update Firmware web page after the upload is finished. After the upload is finished, restart the KUMO device to run the new firmware.

Note: The same KUMO firmware is used for KUMO 1604, 1616, 3232, 6464, 1616-12G, 3232-12G, 6464-12G routers and KUMO CP & KUMO CP2 control panels. AJA recommends updating all routers and control panels to the same firmware to ensure compatibility.

Technical Support

AJA Technical Support is free and available to help you answer questions or resolve issues with any of your AJA products.

To contact AJA Technical Support:

Email: support@aja.com

Phone: +1-530-271-3190

Fax: +1-530-274-9442

Web: <https://www.aja.com/support/contact>

Shipping: 180 Litton Dr. Grass Valley, CA 95945 USA