

AJA IPT/IPR-10G2 Series v2.6 Release Notes

Firmware for IPT-10G2-SDI, IPR-10G2-SDI, IPT-10G2-HDMI, IPR-10G2-HDMI

Introduction

IPT/IPR-10G2 v2.6 firmware includes new features and several improvements, including bug fixes. 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 [IPT/IPR-10G2 Support page](#).

Feature Addition in v2.6

- NMOS: Support Static Registry IP, Port and Version

Improvements and Resolved Bugs

- NMOS: Flow had interlaced twice what it should be
- NMOS: Flow did not have SDR set
- NMOS: Used serial number instead of host name to generate UUIDs
- NMOS: Issue with HTTP requests that contained '/'
- NMOS: IPR-10G2 didn't advertise audioFirmware update results in no video Tx bit rate present. Models: IPT-10G2-SDI, IPT-10G2-HDMI
- UI: Changed order of 59.94 and 60 in format drop downs
- UI: On IPT, didn't allow setting 1ms timing if 16 channels of audio
- UI: On IPT, removed 2K test pattern formats from drop-down as they are not supported
- PTP: Set priority on startup if in master mode
- PTP: Fix priority range
- SDP: Add domain number to clock param when generating SDP

- SDP: Remove extra blank lines when generating SDP
- SDP: Set frame rate properly when parsing SDP interlace, e.g. 25 instead of 50
- Audio: Only sending 4 audio channels when set to 16. 8-channel audio truncates to 4-channels when frame sync is enabled. Models: IPT-10G2-SDI, IPT-10G2-HDMI

Known Bugs

- IPT-10G2-SDI: Audio fails on ST 2110 output when Frame Sync is enabled and fed SDI from Io 4K Plus / Io X3 in the following formats: 1080p23.98, 1080p24, 1080p25.
 - Workaround: When feeding SDI from Io 4K Plus or Io X3 and the following formats 1080p23.98, 1080p24, or 1080p25 are used, Disable Frame Sync (set to bypass).
- IPR: Audio channel groups 2 & 3 are swapped in async and gateway mode (IPR-HDMI only).

Important Hardware Upgrade Notes

Earlier models of IPR-10G2-HDMI are feature complete as of version 2.1 firmware. Attempting to update to v2.2 or newer firmware will result in the error message “this firmware is not for this device”. If you encounter this message and wish to update your unit to v2.2 or newer firmware, please contact AJA Technical Support (see end of this document for contact details).

Initial Setup, Control and Updating Firmware

Please see the combined manual for all ST 2110 Transmitters and Receivers “10 GigE IP Mini-Converters” for further details.

There are two methods available for initial setup and updating firmware for IPR-10G2-HDMI:

- Web Browser on host computer connected to the same network as the IPR-10G2-HDMI.
- AJA eMini-Setup application running on host computer directly connected to IPR-10G2-HDMI via USB.

Web Browser – Configuration, Control and Updates

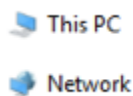
Please see the combined manual for all ST 2110 Transmitters and Receivers “10 GigE IP Mini-Converters” for further details.

Note: Safari is the preferred web browser for control on the Mac, and Chrome and Firefox on Windows. Other web browsers may work, but AJA cannot ensure consistent operation for all web browsers or web browser versions.

IPR-10G2-HDMI requires a network connection for initial configuration, control, and firmware updates. 10 GigE IP Mini-Converters are shipped from the factory with DHCP enabled, and support automatic network discovery via SSDP and MDNS.

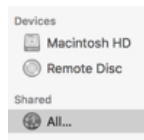
1. Connect IPR-10G2-HDMI Control Port to the intended network with Ethernet cable.
2. The intended network's DHCP Server will assign an IP address and the IP Mini-Converter will join that network.
3. Locate and connect to the AJA IP Mini-Converter.

Windows PC host:



- a. Open Windows Explorer.
- b. Navigate to Network.
- c. Click on Network to enumerate network devices.
- d. Search for either "IPR-10G2" or the device's Serial Number.
- e. Double click on the intended IP Mini-Converter.
- f. The host machine web browser will launch and display the web GUI for the device.

Mac host:



- a. Go to System Preferences > Sharing and turn on File Sharing.
 - b. Open Finder Window.
 - c. Navigate to Shared > All...
 - d. Click on All... to enumerate network devices.
 - e. Search for either "IPR-10G2" or the device's Serial Number.
 - f. Double click on the intended IP Mini-Converter.
 - g. The host machine web browser will launch and display the web GUI for the device.
 - h. If the above does not work, then you will need to download and install an MDNS browser to assist with discovering network devices on a Mac host.
4. Leaving the IP Mini-Converter browser tab open, open a new browser tab and check the AJA website for new firmware:
<https://www.aja.com/products/mini-converters/IPR-10G2-HDMI#support>
 5. If new software is found, download it and uncompress the file archive (.zip) to a network location accessible to the IP Mini-Converter.
 6. Return to the IP Mini-Converter browser tab and proceed to the Firmware Page.

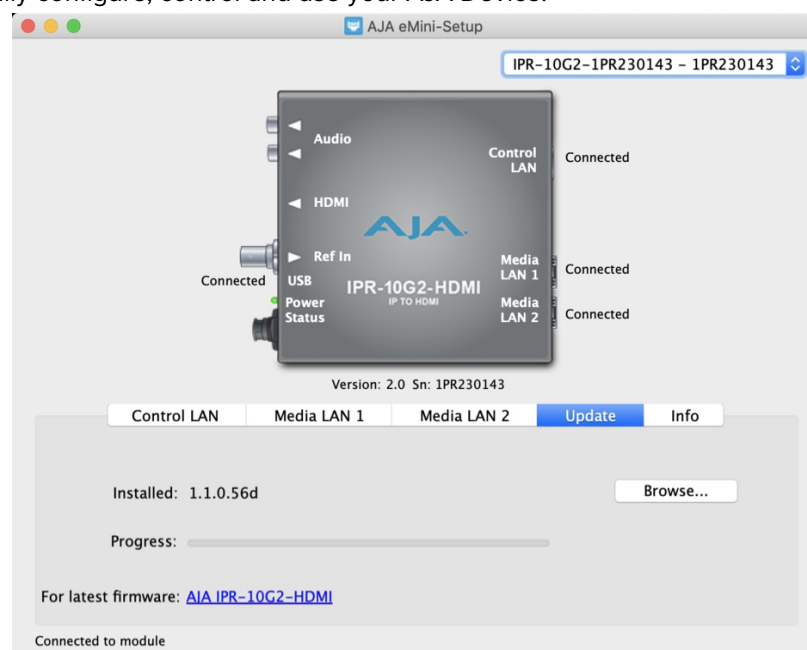
7. Adjacent to “Upload New Firmware” use the “Choose File” button to locate previously unzipped firmware package (.ajas extension).
8. Follow the prompts to load the new firmware into your unit.
9. After the update, the AJA device must be rebooted by clicking on the Reboot button in the prompt window.

AJA eMini-Setup – Configuration, Control and Updates

Please see the eMini-Setup Manual for more details.

Note: eMini-Setup 2.0 is the first version to support IPR-10G2-HDMI and IPR-10G2-SDI. Earlier versions will not work with these specific IP mini-Converter models. AJA Recommends using the latest version of eMini-Setup available via AJA.com.

1. Acquire eMini-Setup from the AJA website for either macOS or Windows:
<https://www.aja.com/family/software#eminisetup>
2. Install eMini-Setup:
 - a. Unzip the Installer
 - b. Run the .dmg file on macOS or the .msi file on Windows
3. Connect Power to your AJA Ethernet equipped Converter.
4. Connect the USB Config cable to the Computer running eMini-Setup.
5. Open eMini-Setup and Configure the device’s network settings.
Note: DHCP will be enabled by default, and if the device is connected to a DHCP server the IP address field will populate
6. Type in (or Copy/Paste) the IP address into a Browser Window.
This will get you into the web-based GUI for your AJA device.
7. Use the Web GUI to fully configure, control and use your AJA Device.



8. After the update, the AJA device must be rebooted by clicking on the Reboot button in the prompt window.

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

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