

AJA OG-HA5-12G – Release Notes v.1.0

Firmware v.1.0 for OG-HA5-12G

Introduction

AJA's OG-HA5-12G converts an HDMI 2.0 input to 12G-SDI for 4K/UltraHD single link outputs. OG-HA5-12G includes two 12G-SDI BNC distribution amplifier outputs with up to 8 -channels of embedded audio from an HDMI source.

OG-HA5-12G also supports Extended Display Identification Data (EDID) emulation, which ensures the connected source continuously supplies custom preferred video formats on output.

OG-HA5-12G-T and OG-HA5-12G-T-ST fiber SFP-equipped models are single channel transmitters capable of extending HDMI 4K/UltraHD signals over long distances, up to 10km over a single LC or ST fiber link respectively. These models ship with SFPs installed and include all functionality of the OG-HA5-12G, with the added benefit of extending audio and video signals further.

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 [OG-HA5-12G Support Page](#).

OG-HA5-12G Features v.1.0

Version v.1.0

- Converts HDMI 2.0 to 4K/UltraHD 60 fps to 12G-SDI with a second mirrored output
- Supports up to 4K 60p input at 4:4:4 Supports 12-bit workflows
- EDID LFR & HFR Emulation up to UHDp60
- Real-time HDMI HDR Infoframe data reporting
- HDR signaling metadata pass-through and optional override
- Simple Frame Rate Conversion (FRC) between Fractional and Integer rates
- Embedded audio can be selected from the HDMI or analog audio inputs
- Embedded audio pass-through of AC-3 (Dolby Digital) and E-AC-3 (Dolby Digital Plus) compressed audio, including DD+ Atmos (aka DD+ JOC)
- Control via Ross Dashboard software

- 14 watts max per card
- Five year warranty

DashBoard Initial Setup, Control, and Firmware Updates

Note: DashBoard software (free) is needed to update firmware, configure and monitor AJA openGear DashBoard supported cards.

1. Check the AJA website for new firmware for your OG-HA5-12G. If new firmware is found, download it and uncompress the file archive (zip). <https://www.aja.com/family/opengear#support>
2. Click the Upload button in the lower panel of the DashBoard Control System to open the Upload Software Wizard.
3. From the Upload Software Wizard window, select Browse.
4. Navigate to the location of the downloaded .bin file containing the firmware update. Select the .bin file, then select Open. The Upload Software Wizard window displays characteristics of the selected file for uploading.
5. Click Finish.
6. When the progress bar indicates that the uploading is finished and status indicates "Complete," click OK.
7. To verify the version of firmware currently installed on your card, select the Card tab from the center panel of DashBoard.

NOTE: Before the upload begins, DashBoard will erase the firmware on the card, taking approximately 20 seconds.

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: www.aja.com/support/contact

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