

# AJA OG-HA5-12G – Release Notes v.1.1

## Firmware v.1.1 for OG-HA5-12G

### Introduction

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OG-HA5-12G openGear card v1.1 software is a maintenance release. It provides an added UI control. The OG-HA5-12G has a new drop down menu to provide better control of non-PCM audio processing and unsupported non-PCM audio formats. There is also a new drop down menu that provides control over SDI output bit depth for the OG-HA5-12G. It is highly recommended that you update to this version of software.

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](#).

### Features, Updates and Improvements in v1.1

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#### Version v1.1

- A new drop down menu to control non-PCM audio processing and unsupported non-PCM audio.
- New drop down menu provides control over SDI output bit depth.
- Support for 4K/2K 48Hz YCbCr 4:2:2.
- SDI output will now mute if no valid HDMI input signal is received.
- Resolves an issue when sometimes, even when the HDMI input contains valid colorimetry data, that data will be lost in the signal path and the output colorimetry will show as "unknown" in the output VPID.
- Resolves an issue where DashBoard reports HDMI input in DVI mode, when it should be in HDMI.
- Resolves an issue where the SDI Tx limiter was not engaged and it was possible for some full range RGB signals to exceed allowable values.
- Resolves an issue when input and output are RGB, the output SMPTE/Full does not work.

## Features, Updates and Improvements in Previous Releases

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### Version v1.0

- 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

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*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

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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:**

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