

# AJA OG-Hi5-4K-Plus – Release Notes v1.8

## Firmware v1.8 for OG-Hi5-4K-Plus

### Introduction

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OG-Hi5-4K-Plus openGear card firmware update v1.8 adds support for 4K/2K 48/47.95 frame rates. It also provides a bug fix for Compressed Audio Pass-thru support including AC-3 and E-AC-3 (DD+ and DD+ JOC), fixes an issue where RGB Range was stuck in FULL regardless if Output RGB Range is set to SMPTE as well as more accurately displays how some information is reported to the user. 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-Hi5-4K-Plus Support Page](#).

### Features, Updates and Improvements in v1.8

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#### Version v1.8

- 4K/2K 48/47.95 frame rate support.
- Bug fix for Compressed Audio Pass-thru support including AC-3 and E-AC-3 (DD+ and DD+ JOC).
- Signal rates now shown in Fields instead of Frames when processing Interlace on the Input and Output.
- HDMI Output now displayed as Bits Per Pixel instead of Bit Depth.
- Fixes an issue where RGB Range was stuck in FULL regardless if Output RGB Range is set to SMPTE.

### Features, Updates and Improvements in Previous Releases

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#### Version v1.7.4

- Supports 12-bit SDI workflow.
- Fixes issue with AVI version info which would cause some HDMI syncs (monitors, projectors, etc) to interpret the output signal as RGB 8-bit or display an incorrect image.

#### Version v1.6.2

- Adds HDR Metadata VPID Pass-through with optional override and updates HDR Metadata management. SDI output VPID settings and HDMI output infoframes for Transfer Characteristic (EOTF) and Colorimetry can be automatically generated based on the SDI source VPID or overwritten. Custom HDMI metadata and mastering display information can be generated for HDMI outputs. Provides HDR/WCG status of input and output signals.
- Adds color space converter support for BT.2020 color gamut.
- Now supports embedded audio pass-through of AC-3 (Dolby Digital) and E-AC-3 (Dolby Digital Plus) compressed audio, including DD+ Atmos (aka DD+ JOC) immersive sound.

#### Version v1.5.3

- Improved HDMI output image timing and signal skew.
- Added an automatic Audio Follow Video feature.
- Added HDMI Data Rate status.

#### Version v1.4.9

- Made the “Video Src” drop down setting on the Input Tab non-volatile, so it won’t lose state when power is lost.
- Adding 4K input mapping detection to the “SDI IN” parameters on the Signal Status Tab
- Fixed a bug that caused DashBoard to falsely display the presence of an input signal.

#### Version v1.3.1

- Added power LED functionality to follow the state of the card as displayed in DashBoard. The power LED will now illuminate yellow if there is a yellow DashBoard alarm, red if there is a red DashBoard alarm, and green if no alarms are present.
- Added an identify checkbox to the Setup Tab. This feature will force the power LED to blink orange so it can be easily identified for service.

#### Version v1.2.2

- On the HDR tab, added BT.709 to the Gamut drop-down menu as a preset option.
- Presets now store and recall HDR tab parameters.

#### Version v1.1.7

- The input and output bit depth selections now support 12 bit

- SDI input 1 is no longer required to have an SDI signal present for audio to be sourced from SDI input 2, 3, or 4.
- Corrected the HDMI Vendor Specific InfoFrame when the output format is 1920x1080p24 4:4:4.
- Fixed a bug that was introduced in OG-Hi5-4K-Plus v1.0.10 which caused the bottom half of the image not to be in sync with the top half when the video format is 4K/UHD at high frame rates.
- Updated the FPGA, and FW numbering to comply with Ross Video's versioning system to avoid a warning message during software upload.

#### Version v1.0.10

- Initial Firmware release for OG-Hi5-4K-Plus
- openGear compatible card
- 4x 3G-SDI inputs
- Support for 4:2:2/4:4:4 HDMI 2.0 output
- Controlled by DashBoard network control software
- HD conversion supported
- HDR support for HDR 10 and HLG
- Embedded audio support
- Input Present and Input SMPTE Lock LEDs
- Hot-swappable
- Compatible with OGX, OG3 and DFR-8321 openGear frames
- Five-year warranty
- DashBoard Support with Smart Control:  
<https://www.opengear.tv/frame-and-control/control-system/download/>
- For additional information, please refer to the OG-Hi5-4K-Plus section of the AJA website:  
<https://www.aja.com/products/og-hi5-4k-plus>

## DashBoard Initial Setup, Control and Updating Firmware

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

1. Check the AJA website for new software for your OG-Hi5-4K-Plus. If new software 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 software 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 software or 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:**

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