AJA Mini-Config Release Notes - v2.18.0

Control Software for AJA Mini-Converters

General v2.18.0

This version of Mini-Config adds support for the new RovoRx-SDI Mini-Converter, as well as feature enhancements and/or bug fixes for the HA5-4K, Hi5-4K, and Hi5-4K-Plus.

Users of AJA Mini-Converters other than those listed above will not gain new functionality with this version of Mini-Config, however it is recommended to migrate to the most recent version even when using non-updated Mini-Converters.

New Mini-Converters

RovoRx-SDI

- The RovoRx-SDI is the latest member of the Rovo family of Mini-Converters designed to receive a RovoCam source feed.
- It provides a flexible interface for bringing a RovoCam UltraHD/HD feed into an SDI production environment.

Key features include:

- Designed to convert RovoCam's HDBaseT output signal to 6G/3G/1.5G SDI signals.
- Integrated Framesync with genlock to external reference.
- 4x 6G/3G-SDI BNC outputs.
- 1x HDMI (UltraHD capable) output.
- DA Mode for distributing multiple SDI signals from a HDBaseT source.
- RS-232 control on the same RJ-45 cable.
- Two channel unbalanced analog audio outputs, when used with RovoCam and optional stereo microphone.
- Mini-Config support for control and status
- 48VDC power supply (included)
- Optional RS232 Cable Kit (HB-CABLE-KIT)

Improvements

HA5-4K

- Added HDMI v2.0 deep color 10 and 12 bit input support (30 and 36 bits per pixel), including 4K/UltraHD YCbCr 4:2:0 10 bit for HDR workflows.

  The HDMI input now supports 8/10/12 bit video (24/30/36 bits per pixel):

  - YCbCr   4:2:2   4K/UltraHD/2K/HD/SD   8,10,12
  - YCbCr   4:2:0   4K/UltraHD   8,10,12
  - YCbCr   4:4:4   4K/UltraHD/2K/HD/SD   8,10,12*
  - RGB   4:4:4   4K/UltraHD/2K/HD/SD   8,10,12*

    Note: 4K/UltraHD High Frame Rate (50/59.94/60) YCbCr/RGB 4:4:4 is limited to 8 bits due to the HDMI v2.0 max data rate of 18 Gbps.

- HDR Tools
  - Added HDR screen in Mini-Config which provides the HDR Static Metadata Descriptors decoded from the received HDR Infoframe, as well as Colorimetry information decoded from the received AVI Infoframe.
  - Added CIE 1931 color space diagram on the HDR screen to graphically represent the general position of the primaries and white point of the received HDR Infoframe.
  - Added informational text notes to the HDR screen that appear when hovering the mouse cursor over a parameter field.

- Fixed the SMPTE 352 HANC packet VPID values for 2SI output mode.
- Fixed the audio channel swap of channels 3 and 4.
- Fixed a video processing bug that affects 2 pixels in the lower right corner of a 4K/UltraHDp23.98/24/25 image.

Hi5-4K-Plus

- Added HDMI v2.0 deep color 10 bit output support (30 bits per pixel), including 4K/UltraHD YCbCr 4:2:0 10 bit for HDR workflows.

  The HDMI output now supports 8/10 bit (24/30 bits per pixel) :

  - YCbCr   4:2:2   4K/UltraHD/2K/HD/SD   8,10
  - YCbCr   4:2:0   4K/UltraHD   8,10
  - YCbCr   4:4:4   4K/UltraHD/2K/HD/SD   8,10*
  - RGB   4:4:4   4K/UltraHD/2K/HD/SD   8,10*

Note: 4K/UltraHD High Frame Rate (50/59.94/60) YCbCr/RGB 4:4:4 is limited to 8 bits due to the HDMI v2.0 max data rate of 18 Gbps.

- Changed output screen param function 4K/UHD HFR Mode to HDMI 1.4/2.0 Mode.

- HDR Tools
  - Enhanced the HDR Infoframe generation. Can now select one of 8 EOTFs including currently defined, future, and reserved EOTF values.
  - Added control of AVI Infoframe Colorimetry. Can now select the specific Colorimetry sent via the AVI Infoframe to a downstream HDMI sink device. For example, can signal non-HDR BT.2020.
  - Added CIE 1931 color space diagram to graphically represent the general position of the primaries and white point.
  - Added informational text notes to the HDR screen that appear when hovering the mouse cursor over a parameter field.
  - All HDR parameters are now non-volatile and behave like other parameters. These parameters can also now be saved and recalled using Presets.

- The HDMI AVI Infoframe now correctly indicates colorimetry when in Auto mode (for example BT.709).

Hi5-4K

- HDR Tools
  - Enhanced the HDR Infoframe generation. Can now select one of 8 EOTFs including currently defined, future, and reserved EOTF values.
  - Added control of AVI Infoframe Colorimetry. Can now select the specific Colorimetry sent via the AVI Infoframe to a downstream HDMI sink device. For example, can signal non-HDR BT.2020.
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  - Added informational text notes to the HDR screen that appear when hovering the mouse cursor over a parameter field.
  - All HDR parameters are now non-volatile and behave like other parameters. These parameters can also now be saved and recalled using Presets.
- The HDMI AVI Infoframe now correctly indicates colorimetry when in Auto mode (for example BT.709).

Installing the Latest Software

Mini-Converters come from the factory with the most current version of firmware pre-installed. To get the latest version of Mini-Config, visit the AJA website support area and select your Mini-Converter from the list:

https://www.aja.com/category/mini-converters#support

The Mini-Config software can be found in the Software section of the support page for your Mini-Converter. Previous releases of the AJA Mini-Config software are also available in the Software Archive section for each supported Mini-Converter.

Firmware Upgrade Procedure

The manual provided with your AJA Mini-Converter describes the firmware update process; please refer to it in order to properly update your firmware. The product manuals are also installed with the software in the /AJA/Mini-Config/ Documentation/ folder.

Individual product manuals are available online for download from the Mini-Converter section of the AJA website:

http://www.aja.com/support

Products Supported In This Release

3G-AM	Hi5-4K	HB-T-SDI	ROI-DP
LUT-box	HA5-4K	HB-R-SDI	HA5-Fiber
Hi5-3D	4K2HD	ROI-DVI	3G-AMA
Hi5-3G	V2Digital	ROI-HDMI	Hi5-4K-Plus
HDP2	V2Analog	HD10MD4	Hi5-Fiber
UDC	Hi5-Plus	HDP3	RovoRx-SDI
ROI	HA5-Plus	OG-3G-AM	

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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