

AJA HA5-12G HDMI 2.0 to 12G-SDI Converter

AJA's HA5-12G allows users to convert an HDMI 2.0 input to two 12G-SDI single link outputs. It includes two SDI DA outputs and transmits 12G-SDI on each SDI link, reducing cable runs when transporting 4K/UltraHD SDI. HA5-12G supports up to 8-Channels of audio from the HDMI source or 2-Channel analog audio (RCA), with eight or two channels of digital embedded audio on 12G-SDI.

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

HDR

HDR, or High Dynamic Range, provides the ability to display a wider and richer range of colors, much brighter whites, and much deeper, darker blacks than standard signals allow. This gives your imagery a more 'dynamic' look and allows for natural true to life colors to be communicated to your audience. HA5-12G provides support for analyzing HDR infoframe data coming in over HDMI when used with AJA Mini-Config software.

4K and UltraHD

Typical 4K signals use a resolution of 4096 x 2160 pixels while UltraHD signals measure 3840 x 2160. This difference can prevent some monitors from being used either in full 4K workflows or in UltraHD workflows. HA5-12G can compensate for these resolution differences, allowing UltraHD monitors to be used in 4K productions and vice versa. HA5-12G also supports High Frame Rate (HFR) inputs. 4K/UltraHD signals at 50 or 60 fps can be fed into HA5-12G and output at up to 60p for viewing with appropriate HDMI 2.0 capable displays.

Full HDMI Support

The equalized input on HA5- 12G is engineered to support HDMI runs up to 30 meters in length using 24 gauge cable. Embedded HDMI audio support allows for a single cable solution to avoid unnecessary clutter and simplify installation.

12G-SDI Support

The 12G-SDI outputs on HA5-12G allows extremely high quality signal representation for use with large raster and deep color workflows where image quality is critical.

Pristine Image Quality

A 12G-SDI output with PLL clock filtering ensures a low jitter output for solid image stability. An LED indicator shows the input source as either SD (green), HD (red) or 4K/UltraHD (orange) for fast and easy signal identification.

Analog audio input

Using the two RCA analog audio inputs, embed any 2-Channel analog audio signal into the SDI output to maintain proper audio sync throughout the workflow.

DSLR support

HA5-12G accepts progressive standard definition signals at 525p and 625p for compatibility with DSLR cameras, allowing the signal from those cameras to be easily incorporated into SDI workflows.

Compact and Portable

AJA Mini-Converters are small enough to fit behind a monitor, in the back of a rack or directly on a camera rig. A locking power connector can't accidentally pull loose and an optional P-TAP power cable allows for battery power in remote locations.

AJA Quality - Guaranteed

All AJA Mini-Converters are covered by a five year warranty and AJA's advanced replacement policy. If a replacement is necessary, AJA will ship a new unit immediately without the need to send the original unit back first, ensuring you are up and running again as quickly as possible.

Features

- Convert HDMI 2.0b up to 4K/UltraHD 60p to 12G-SDI with a second mirrored output
- Supports up to 60p input at 4:4:4/4:2:2/4:2:0
- HDMI EDID Emulation
- Two Sample Interleave (2SI) 4K/UltraHD source mapping
- Analyzes HDR Infoframe data coming in over HDMI in accordance with HDMI v2.0b/CTA-861-G
- HDR Infoframe decoder as defined in CTA-861-G and HDMI v2.0b
- Embedded audio can be selected from the HDMI or Analog audio inputs
- The Lock LED adjacent to the HDMI input connector indicates by color the detected signal type. Off is no signal, Green is SD-SDI, Red is HD-SDI, Amber is 3G-SDI, Purple is 6G-SDI, and Blue is 12G-SDI.
- Configure via USB port and supplied AJA Mini-Config software
- DWP-U-R1 universal power supply included
- Covered by five-year warranty and AJA's advanced replacement policy