



HA5-12G

AJA's HA5-12G converts an HDMI 2.0 input to 12G-SDI for 4K/UltraHD single link outputs. HA5-12G includes two 12G-SDI distribution amplifier outputs with eight or two channels of embedded audio from an HDMI source or two-channel analog audio (RCA) input.

\$795 US MSRP

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

A HA5-12G-T Fiber SFP-equipped model is a single channel transmitter capable of extending HDMI 4K/UltraHD signals over long distances, up to 10km over a single Fiber link. HA5-12G-T ships with a FiberLC-1T-12G SFP installed and includes all functionality of the HA5-12G, with the added benefit of extending audio and video signals further.

<https://www.aja.com/products/ha5-12g>

Video Formats

- (4K) 4096 x 2160p
- (UltraHD) 3840 x 2160p
- (2K) 2048 x 1080p
- (HD) 1920 x 1080p
- (HD) 1920 x 1080i
- (HD) 1280 x 720p

Video Input Digital

- 1x HDMI Type A connector, HDMI v2.0b
- YCbCr 4:2:2/4:4:4/4:2:0
- RGB 4:4:4, SMPTE or Full level
- 8, 10, or 12-bit (HFR 4K/UltraHD 4:4:4 limited to 8-bit)
- HDR Infoframe decoder as defined in CTA-861-G and HDMI v2.0b
- (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1920 x 1080i 50, 59.94, 60
- (HD) 1280 x 720p 50, 59.94, 60

Video Output Digital

- 1x 12G-SDI BNC, SMPTE-259/292/424/2081/2082

- 1x 12G-SDI LC Fiber connector, SMPTE 297/259/292/424/2081/2082
 - Nominal Wavelength: Tx 1260 nm (min), 1310 nm (typ), 1360 nm (max)
 - Optical Power: -5 dBm (min), 0.5 dBm (max)
 - Extinction Ratio: 5.4 dB (min)
- YCbCr 4:2:2/4:4:4
- RGB 4:4:4, SMPTE or Full level
- 8 or 10-bit
- Two Sample Interleave (2SI) 4K/UltraHD source mapping
- 1x 12 Gb SDI
 - (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
 - (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- 1x 6 Gb SDI
 - (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30
 - (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30
 - (HD) 1920 x 1080p (RGB 4:4:4) 50, 59.94, 60
- 1x 3 Gb SDI (Level A or B-Dual Link)
 - (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
 - (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
 - (HD) 1920 x 1080i 50, 59.94, 60
 - (HD) 1280 x 720p* 50, 59.94, 60
- 1x 1.5 Gb SDI
 - (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30
 - (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30
 - (HD) 1920 x 1080i 50, 59.94, 60
 - (HD) 1280 x 720p 50, 59.94, 60

*1280 x 720p is Level A Only

Video Output Digital

Additional for HA5-12G-T Only

- 1x 12G-SDI LC Fiber connector, SMPTE 297/259/292/424/2081/2082
 - Nominal Wavelength: Tx 1260 nm (min), 1310 nm (typ), 1360 nm (max)
 - Optical Power: -5 dBm (min), 0.5 dBm (max)
 - Extinction Ratio: 5.4 dB (min)

Audio Input Digital

- HDMI embedded audio, 24-bit, 8-Channel

Audio Input Analog

- 2x RCA style connector, 2-Channel -10dBu (nominal)

Audio Output Digital

- SDI embedded audio, 24-bit, 8-Channel

User Interface

- USB port used with supplied cable and Mini-Config software application to configure and view device status via Mac or Windows

Size (w x d x h)

- 4.6" x 4.02" x 0.9" (116.84 x 102.11 x 22.86 mm)

Weight

- 0.5 lb (0.3 kg)

Power

- 5-20VDC regulated, 11 watts, power supply required included with purchase
- AC Adapter: 100-240VAC, 50/60 Hz, universal input

Environment

- Safe Operating Temperature: 0 to 40 C (32 to 104 F)
- Safe Storage Temperature (Power OFF): -40 to 60 C (-40 to 140 F)
- Operating Relative Humidity: 10-90% noncondensing
- Operating Altitude: <3,000 meters (<10,000 feet)

*HA5-12G devices use approximately 11 watts of power and convection cooling. They will be warm to the touch, which is normal. When installing a unit, mount in a location where the device has access to air for proper cooling. Do not stack a HA5-12G device with other Mini-Converters.