



OG-Hi5-12G

The OG-Hi5-12G converts 12G-SDI to HDMI 2.0, with pristine image fidelity and HFR support up to 60p for 4K/UltraHD, in the popular openGear form factor. The OG-Hi5-12G provides an easy to deploy monitoring connection from professional 4K 12G-SDI devices to devices with HDMI 2.0 inputs. The OG-Hi5-12G can also generate HDR metadata in accordance with HDMI v2.0 and CTA-861-G.

It features a 12G-SDI single link input with a reclocked SDI loop out for SDI monitoring or pass on for SDI pipelines.

Fiber SFP-equipped OG-Hi5-12G models are available, including the OG-Hi5-12G-R receiver, which can receive 4K signals over long distances from a Fiber connected source, and the OG-Hi5-12G-TR transceiver, which delivers a 4K/UltraHD SDI or Fiber source signal to an HDMI destination with pass on of the source through SDI or Fiber to a secondary destination. The Video Source Auto Switch Over feature (SDI and Optical Inputs) in OG-Hi5-12G-R and OG-Hi5-12G-TR provides automatic input changeover with configurable Switch Over Priority selection (Last Valid Input, Priority SDI, and Priority Optical).

https://www.aja.com./products/og-hi5-12g

Video Formats

- (4K) 4096x2160p
- (UltraHD) 3840x2160p
- (2K) 2048x1080p
- (HD) 1920x1080p
- (HD) 1920x1080i
- (HD) 1280x720p
- (SD) 720x576i
- (SD) 720x480i

Note: Raster and Frame Rate Dependent, please see OG-Hi5-12G Video Formats in Documents and Manual

Video Input Digital

- 1x 12G-SDI BNC, SMPTE-259/292/424/2081/2082
- YCbCr 4:2:2/4:4:4
- RGB 4:4:4, SMPTE or Full level
- 8, 10, 12-bit
- Two Sample Interleave (2SI) 4K/UltraHD source mapping
- 1x 12 Gb SDI
 - o (4K) 4096x2160p 23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60
 - (UltraHD) 3840x2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- 1x 6 Gb SDI
 - o (4K) 4096x2160p 23.98, 24, 25, 29.97, 30
 - o (UltraHD) 3840x2160p 23.98, 24, 25, 29.97, 30
- 1x 3 Gb SDI (Level A or B DL)
 (2K) 2048x1080p 23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60

- (2K) 2048x1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1920x1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- o (HD) 1920x1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1920x1080i 50, 59.94, 60
- (HD) 1280x720p* 50, 59.94, 60
- 1x 1.5 Gb SDI
 - (2K) 2048x1080p 23.98, 24, 25, 29.97, 30
 - (2K) 2048x1080PsF 23.98, 24, 25, 29.97, 30
 - (HD) 1920x1080p 23.98, 24, 25, 29.97, 30
 - (HD) 1920x1080PsF 23.98, 24, 25, 29.97, 30
 - o (HD) 1920x1080i 50, 59.94, 60
 - o (HD) 1280x720p 50, 59.94, 60
- 1x 270 Mb SDI
 - o (SD) 625i 50
 - o (SD) 525i 59.94

*1280x720p is Level A Only

Input Signal Selection - OG-Hi5-12G-R and OG-Hi5-12G-TR Only

- 1x 12G-SDI BNC, SMPTE-259/292/424/2081/2082
- 1x 12G-SDI Fiber LC connector, SMPTE 297/259/292/424/2081/2082
 Nominal Wavelength: Rx 1260 nm (min), 1620 nm (max)
 - Optical Sensitivity: -10 dBm (min 12 Gbps), -14 dBm (min 3 Gbps)
 - Overload Power: -2 dBm (min)

Input Signal Selection - OG-Hi5-12G-R-ST

\$999 US MSRP



Only

- 1x 12G-SDI BNC, SMPTE-259/292/424/2081/2082
- 1x 12G-SDI Fiber ST connector, SMPTE 297/259/292/424/2081/2082
- Nominal Wavelength: Rx 1260 nm (min), 1620 nm (max)
- Optical Sensitivity: -10 dBm (min 12 Gbps), -14 dBm (min 3 Gbps)
- Overload Power: -2 dBm (min)

Video Output Digital

- 1x HDMI Type A connector*, HDMI v2.0b
- HDR infoframe generation with pass-through or override for Colorimetry and Transfer Characteristic
- YCbCr 4:2:2/4:4:4/4:2:0
- RGB 4:4:4, SMPTE or Full level
- 24, 30, or 36-bits Per Pixel (HFR 4K/UltraHD 4:4:4 limited to 24 BPP)
- (4K) 4096x2160p 23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60
- (UltraHD) 3840x2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (2K) 2048x1080p 23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60
- (HD) 1920x1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1920x1080i 50, 59.94, 60
- (HD) 1280x720p 50, 59.94, 60
- (SD) 720x576i 50
- (SD) 720x480i 59.94

*If a connected monitor doesn't support HDMI protocol, the unit automatically switches to DVI protocol (which does not pass audio)

Video Output Digital - Additional for OG-Hi5-12G-TR Only

- 1x 12G-SDI Fiber LC 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 Pass-Through Formats

- PCM
- Dolby Digital (AC-3)
- Dolby Digital Plus (E-AC-3), including Atmos Immersive Sound (JOC)

Audio Input Digital

• SDI embedded audio, 24-bit (SD limited to 20-bit), 16-channel

Audio Output Digital

• HDMI embedded audio, 24-bit, 8-channel

Audio Output Analog

• 2x 3-pin terminal block connector, 2-channel balanced analog audio +24dBu (nominal)

User Interface

 openGear DashBoard network control software via Windows, macOS, or Linux

Size

- openGear standard form factor, front slot, and rear card
- Two slots required for each card

Weight

• 0.5 lb (0.3 kg)

Power

• openGear frame compatible, 13 watts max per card

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)