

AJA Hi5-12G 12G-SDI to HDMI 2.0 Converter

The Hi5-12G converts 12G-SDI to HDMI 2.0, with pristine image fidelity and HFR support up to 60p for 4K/UltraHD, with single cable simplicity. Hi5-12G provides an easy to deploy monitoring connection from professional 4K 12G-SDI devices to new displays with HDMI 2.0 inputs, for cost effective monitoring in professional workflows. The 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 simpler SDI confidence monitoring or pass on for SDI pipelines.

Fiber SFP equipped Hi5-12G models are available (please see separate listings below) including the Hi5-12G-R receiver, which extends HDMI 4K signals over long distances from either an SDI or a Fiber connected source, and the 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.

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.

Hi5-12G provides this support for your 4K/UltraHD/HD HDR pipelines to HDMI compatible displays by generating HDR metadata in accordance with HDMI v2.0b/CTA-861-G. Hi5-12G also provides support for Hybrid Log Gamma (HLG) HDR displays over HDMI.

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. Hi5-12G can compensate for these resolution differences, allowing UltraHD monitors to be used in 4K productions and vice versa.

Hi5-12G also supports High Frame Rate (HFR) inputs. 4K/UltraHD signals at 50 or 60 fps can be fed into Hi5-12G and output at up to 60p for viewing with appropriate HDMI 2.0 capable displays.

12G-SDI Support

The 12G-SDI input on Hi5-12G allows extremely high quality signal representation through to the HDMI output for use with large raster and deep color workflows where image quality is critical.

Audio Integration

Up to 16-Channels of embedded SDI audio are supported on input and can be passed to 8-Channel of embedded HDMI audio on the output with the ability to delay the audio from 0 to 7 frames for proper synchronization with the output video. Two channels of analog audio output allow direct external monitoring without the need to disembed the audio separately.

DSLR support

Hi5-12G 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.

PsF to Progressive conversion

HDMI monitors do not natively support PsF signals. However, many professional productions still work with PsF formats. Hi5-12G converts incoming 1080PsF signals to 1080p. This progressive signal is compatible with HDMI monitors.

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 12G-SDI to HDMI 2.0b at up to 4K 60p
- Support for 4:2:2/4:4:4/4:2:0 HDMI 2.0 output
- HDR support for HDR10 and HLG
- Embedded audio support
- 12G-SDI loop out
- Fiber SFP models available
- Configure via USB port and supplied Mini-Config software
- Uses 5-20 VDC power (DWP-U-R1 universal power supply included)
- Five year warranty