



IPR-10G-HDMI

Bridging SMPTE ST 2110 Video & Audio to HDMI

Powerful and Flexible Video over IP

IP Solutions for Creatives. Bridges for Baseband to IP and Back.

The broadcast industry is steadily migrating to IP technologies with its built-in advantages for scaling, routing, simpler embedding, disembedding, remote management and the ability to scale services as required to the size and complexity a project may demand. AJA is here to help you cross the bridge to this new world with the least disruption possible.

Creative users can simply bridge to IP and both transmit and receive with KONA IP for desktop needs and Io IP for Thunderbolt™ 3 connectivity, on macOS® or Windows®, in the all the ways they are used to, with the same creative tools they know and love.

For transmission, reception and conversion of baseband video to and from IP, add AJA's growing range of IP Mini Converters to the mix and you have tremendous versatility for ingest, playout and monitoring, including remote editing session monitoring*

From SMPTE ST 2110 to ST 2022-6/7 and TR-01 JPEG 2000 workflows, AJA offers you the flexibility of choice for the particular IP workflow you need to address, and AJA's firmware updates ensure you stay current with the evolving strands of the IP migration.

IPR-10G-HDMI provides monitoring of HD SMPTE ST 2110 signals via HDMI. It receives SMPTE ST 2110 over 10 GigE connectivity, formats the data for output on a full-size HDMI interface, and the associated audio from the video stream is extracted, synchronized, and embedded into the HDMI interface and also output on an analog RCA interface.



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Tech Specs

Video Formats

- (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30
- (HD) 1920x1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1920x1080i 50, 59.94
- (HD) 1280x720p 50, 59.94, 60
- (SD) 625i 50
- (SD) 525i 59.94

Video Quality

- 10-bit, 4:2:2, uncompressed

Discovery, Registration and Control

- NMOS
- Ember Plus (no discovery, control only)

Media Transport Interfaces

- SMPTE ST 2110
 - 1 x SFP+ Cages - SFPs not included
- Recommended 10 GigE SFP+ modules:
 - Finisar FTLX1471D3BCL (for single mode 1310nm)
 - Arista Networks SFP-10G-SR Compatible 10GBASE-SR
 - Generic 850nm 300m DOM Transceiver (for multi-mode 850nm)

Video Input IP

- SMPTE ST 2110
 - Single channel input

Video Output Digital

- 1x HDMI Standard Type A connector
 - HDMI v1.4b 24/30-bits per pixel, RGB/YUV

Audio Output Digital

- Up to 8-Channel, embedded audio, 24-bit per channel, 48 kHz synchronous

Audio Output Analog

- 2x RCA analog audio
 - Levels at -10 dBu (nominal)

User Controls

- 1 x RJ-45 for 10/100/1000 Base-T Ethernet (IEEE 802.3-2012)
 - HTTP/1.1 (RFCs 7230, 7231, 7232, 7233, 7234, 7235)
 - Web and REST clients supported
- 1 x USB 2.0 Mini-B connector
 - AJA eMini-Setup of network parameters via local desktop computer

Size (w x d x h)

- 5.53" x 4.48" x 0.954" (140.46mm x 113.79mm x 24.23mm)

Weight

- 0.6 lb (0.3 kg)

Power

- 5-20VDC Regulated, 13 Watts, Power supply required (DWP-U-R1 included with purchase)