



## IPR-10G2-HDMI

IPR-10G2-HDMI provides monitoring of HD SMPTE 2110 signals across 10 GigE to an HDMI output.

**\$1295 US MSRP**

It receives SMPTE ST 2110 over 10 GigE connectivity, formats the data, including HD video on a full-size HDMI interface. Associated audio from the video stream is extracted, synchronized, and embedded into the HDMI interface and also output on an analog RCA interface.

The IPR-10G2-HDMI features 2x 10 GbE SFP+ cages allowing “hitless switching”, providing redundancy protection for critical distribution and monitoring applications.

<https://www.aja.com/products/ipr-10g2-hdmi>

### Video Formats

- (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

### Media Transport Interfaces

- SMPTE ST 2110 (-10, -20, -21, -30)
  - 2x SFP+ Cages - SFPs not included
- Recommended 10 GigE SFP+ modules:
  - Arista Networks SFP-10G-SR Compatible 10GBASE-SR
  - Fiberstore SFP-10GSR-85 10G SFP+ 850nm
  - Finisar FTLX1471D3BCL (for single mode 1310nm)
  - Mellanox MFM1T02A-SR 850nm 10G

**Note:** Maximum supported SFP+ power is 500 mW per SFP+ cage

### Video Input IP

- SMPTE ST 2110
  - Single channel video input
  - SMPTE ST 2022-7 dual stream input for hitless switching

- Rx support for Narrow/Wide, Gapped/Linear Modes

### Audio Input IP

- SMPTE ST 2110
  - Up to 16-channels\* audio, 24-bit per channel, 48 kHz synchronous
  - 1 ms or 125  $\mu$ s packet interval
  - SMPTE ST 2022-7 dual stream input for hitless switching

\*Streams with up to 16-channels are received but only the first 8 are output

### Video Output Digital

- 1x HDMI Standard Type A connector
  - HDMI v1.4b 24/30-bits per pixel
  - Up to 1080 60p, 4:2:2, 10-bit, YCbCr/RGB

### Audio Output Digital

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

### Audio Output Analog

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

### Reference

- 1x BNC

- Reserved for Future Potential Features

## Discovery, Registration and Control

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- NMOS Rx discovery and control according to standards IS-04 v1.2 and IS-05 v1.0
- Ember+ control (no discovery, control only)
- AJA REST API control (discovery via SSDP or MDNS)
- Supported over dedicated management Ethernet port and in-band over media ports

## IP Clock

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- PTP support compliant with PTP PTPv2 / IEEE 1588-2008
- SMPTE ST 2059-1 compliant

## User Controls

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- 1x RJ-45 for 10/100/1000 Base-T Ethernet
  - Web and REST clients supported for remote network setup and configuration
- 1x USB 2.0 Mini-B connector
  - AJA eMini-Setup supported for network setup and configuration via local desktop computer
- Web and REST configuration is also supported in-band over media ports

## Size (w x d x h)

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- 5.07" x 0.94" x 5.06" (128.78 x 23.88 x 128.52 mm)

## Weight

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- 0.6 lb (0.3 kg)

## Power

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

## Environment

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- 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)