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AJA
VIDEO SYSTEMS

IPR-1G-HDMI

JPEG 2000 IP Video & Audio to HDMI Converter

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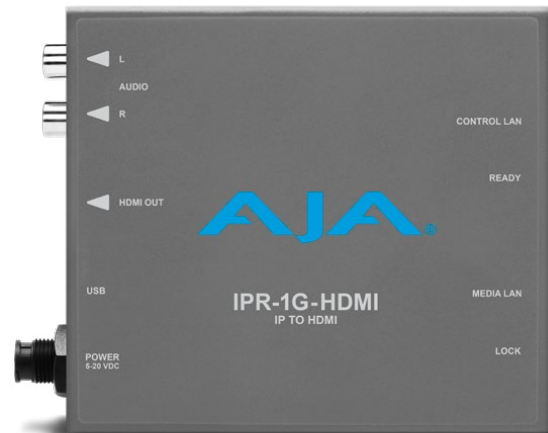
For transmission, reception and conversion of baseband video to and from IP, add AJA's growing range of IP Mini Converters to the mix and you have tremendous versatility for ingest, playout and monitoring, including remote editing session monitoring*

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.

The IPR-1G-HDMI is a VSF TR-01 (and other JPEG 2000 formats) to HDMI converter suited for point-of-use applications including source monitoring, digital signage, and video walls. The IPR-1G-HDMI decodes VSF TR-01 JPEG 2000 streams then formats the data for output on a full-size HDMI 1.4 interface. The audio associated with the video stream is extracted, synchronized, and then embedded into the HDMI signal as well as output on an analog RCA audio interface.

Features:

- 1x RJ-45 (IEC 60603-7) for 10/100/1000 Base-T Ethernet media input
- Essence support: VSF TR-01 and other JPEG 2000 MPEG-2 workflows
- Rugged, fanless, portable design
- Full-size HDMI 1.4 video output
- Audio out available via embedded HDMI and analog RCA
- Full 10-bit pixel processing pipeline
- Network (LAN) control and status
- Quick network setup with AJA eMini-Setup software

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Tech Specs

Video Formats

- (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
- (HD) 1280 x 720p 50, 59.94, 60
- (SD) 625i 50
- (SD) 525i 59.94

Essence Input

- 1x RJ-45 (IEC 60603-7) for 10/100/1000 Base-T Ethernet (IEEE 802.3-2012)
- VSF TR-01 and other JPEG 2000 MPEG-2 Workflows

Outputs

- 1 x HDMI Standard Type A connector
    - HDMI v1.4a 24/30 bits per pixel, RGB/YUV
- 2 x RCA analog audio
    - Levels at -10 dBu (nominal)

User Controls

- 1 x RJ-45 (IEC 60603-7) 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 (IEC 62680-1) connector
    - AJA eMini-Setup of network parameters

Size (w x d x h)

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

Weight

- 0.6 lb (0.3 kg)

Power

- Uses AJA power supply model DWP-U-R1, included with purchase
- 100-240V, 50/60 Hz Universal input
- +5 to 20V DC regulated, 12 watts max

Environment

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