



HDR Image Analyzer 12G

HDR Image Analyzer 12G delivers a comprehensive array of tools for the effective analysis of up to 4x 4K/UltraHD signals, utilizing both single cable 12G-SDI and NDI connectivity. Analyze HLG, PQ, Rec.2020, Rec.709, and native camera Log color spaces – from 8K/UltraHD2/4K/UltraHD/2K/HD content in a powerful, real time, 1RU device.

\$22465 US MSRP

Developed in partnership with Colorfront, the AJA HDR Image Analyzer 12G supports a wealth of inputs from camera Log formats to SDR (REC 709), PQ (ST 2084), and HLG and offers Wide Color Gamut (WCG) support for BT.2020 alongside traditional BT.709 and P3. Dolby Vision® dynamic metadata inspection and analysis for advanced HDR mastering and QC applications. AJA hardware prowess ensures high reliability and performance, with 4x 12G-SDI bidirectional I/O, dual 10 GigE, and DisplayPort connections.

Specifically designed to be used wherever high performance color analysis is needed, the 1RU form factor excels in a range of environments, providing the confidence you need for consistent and predictable HDR production and mastering.

<https://www.aja.com/products/hdr-image-analyzer-12g>

Log/SDR/HDR Image Analysis Tool

- Multi-channel HDR Waveform, Histogram, and Vectorscope monitoring

- UYVY, 4:2:2, 10-bit and 8-bit
- UYVA, 4:2:2, 10-bit and 8-bit

Video Format

- (8K) 8192x4320p 23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60
- (UltraHD2) 7680x4320p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (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
- (2K) 2048x1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 720p 50, 59.94, 60

Note: Interlaced formats are not supported

Video Codec

- NDI SpeedHQ (High Bandwidth)

Audio Streams/Codec

- NDI (uncompressed float)
- SDI (PCM)

SDI Video Input Digital

- 4x 12G-SDI BNC
- 12G-SDI, SMPTE-259/292/296/424/425/2081/2082/2036, 12-bit, 10-bit, and 8-bit

NDI Video Input

- 2x 10 GigE RJ-45
- 4x NDI (approx. 105-250Mbit/s per channel)

Video Inputs

- SDI connections are input only
 - 8K/UltraHD2 with 12G-SDI, all four connections are used
 - 4K/UltraHD with 12G-SDI, all four connections can be used
 - 4K/UltraHD with 3G-SDI, all four connections are used
 - 2K/HD with 3G-SDI, all four connections can be used

Note: When connections are configured for 12G-SDI or 6G-SDI, only 8K/UltraHD2/4K/UltraHD formats are supported.

- NDI connections are input only
 - 4K/UltraHD/2K/HD

Audio Input/Output Digital

- 16-channel 24-bit SDI embedded, 48 kHz synchronous

NDI Audio Input

- 16-channel, uncompressed float, 48 kHz sample rate, per NDI connection

Computer Monitor Output

- 4x Display Port Outputs:
 - Up to UltraHD 60p
 - Supports HDR10/PQ output

Network Interface

- 2x RJ-45, 10 GigE
- Embedded web server for remote control
- Remote Desktop Protocol (RDP)

Size (w x d x h)

- 1RU form factor
- 17.2" x 16.9" x 1.7" (436.88 x 429.26 x 43.18 mm)

Weight

- 28 lb (12.7kg) in box
- 18 lb (8.2kg) server only

Power

- 100-240 VAC 50/60 Hz (Dual, redundant power supplies)
- 190W typical, 245W Maximum

Environment

- Safe Operating Temperature: 5 to 35 C (41 to 95 F)
- Safe Storage Temperature (Power OFF): -40 to 60 C (-40 to 140 F)
- Operating Relative Humidity: 8-90% noncondensing
- Non Operating Relative Humidity: 5-95% noncondensing