

AJA OG-3G-AMA openGear 3G-SDI Analog Audio Embedder/Disembedder with DashBoard Support

Video Formats

- (2K) 2048 x 1080p
- (2K) 2048 x 1080PsF
- (HD) 1920 x 1080p
- (HD) 1920 x 1080PsF
- (HD) 1920 x 1080i
- (HD) 1280 x 720p
- (SD) 720 x 576i
- (SD) 720 x 480i

Video Input Digital

- 1x 3G-SDI BNC, SMPTE-259/292/424

Video Input Formats

- 1x 3 Gb SDI (level A or B)
 - (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
 - (2K) 2048 x 1080PsF 23.98, 24, 25, 29.97, 30
 - (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
 - (HD) 1920 x 1080PsF 23.98, 24, 25, 29.97, 30
 - (HD) 1920 x 1080i 50, 59.94, 60
 - (HD) 1280 x 720p 50, 59.94, 60
- 1x 1.5 Gb SDI
 - (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30
 - (2K) 2048 x 1080PsF 23.98, 24, 25, 29.97, 30
 - (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30
 - (HD) 1920 x 1080PsF 23.98, 24, 25, 29.97, 30
 - (HD) 1920 x 1080i 50, 59.94, 60
 - (HD) 1280 x 720p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- 1x 270 Mb SDI
 - (SD) 625i 50
 - (SD) 525i 59.94

Video Output Digital

- 1x 3G-SDI BNC, SMPTE-259/292/424

Video Output Formats

Video Out is a delayed, reclocked version of Video In, at same frame rate, etc. Video Out is undefined when no input.

- Video Latency, time measured between video input and video output connector:
 - 3G level A = 3.2 usec
 - 3G level B = 6.1 usec
 - HD (1.5 Gb) = 6.3 usec
 - SD (270 Mb) = 17.2 usec

Audio Inputs and Outputs

- Audio Connectors
 - 8 Analog Audio Connections (4 pairs total)
 - Each pair configurable to Inputs or Outputs
- Digital Audio Converters
 - 24-bit
- Embedded Audio
 - SMPTE 272M (SD): 20-bit, 48 kHz synchronous
 - SMPTE 299M (3G/HD): 24-bit, 48 kHz synchronous
 - Incoming embedded audio can be passed, removed, or overridden.
 - 16 Channels supported on the SDI at any given time (8 of which can be from the analog inputs).
- Embed Path Audio Latency, time measured between audio input and video output connector:
 - 1100 usec
- Disembed Path Audio Latency, time measured between video input and audio output connector:
 - 1200 usec
- Analog Audio Levels
 - Configured via Dashboard software:
 - Pro 1: 0 dBfs = +24 dBu

- Pro 2: 0 dBfs = +18 dBu
- Pro 3: 0 dBfs = +15 dBu
- Consumer 1: 0 dBfs = +12 dBu

User Controls

- External DIP switch
- openGear DashBoard network control software via Windows, macOS or Linux

Size (w x d x h)

- openGear standard form factor, front slot and rear card. Two slots required for each card.

Weight

- 0.5 lb (0.3 kg)

Power

- openGear frame compatible, 5.0 watts max per card

Environment

- 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)