

AJA 3G-AM-BNC 3G-SDI 8-Ch AES Embedder/Disembedder with BNC Cable

Video Input

SDI, 1x BNC

- HD SMPTE 292/296M
- SD SMPTE 259M
- 3G SMPTE 424/425M

Input Formats

1 x 3Gb SDI (level A or B)

- 2048x1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- 2048x1080psf 23.98, 24, 25, 29.97, 30
- 1920x1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- 1920x1080psf 23.98, 24, 25, 29.97, 30
- 1920x1080i 25, 29.97, 30
- 1280x720p 50, 59.94, 60

1 x 1.5Gb SDI

- 2048x1080p 23.98, 24, 25, 29.97, 30
- 2048x1080psf 23.98, 24, 25, 29.97, 30
- 1920x1080p 23.98, 24, 25, 29.97, 30
- 1920x1080psf 23.98, 24, 25, 29.97, 30
- 1920x1080i 25, 29.97, 30
- 1280x720p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60

1 x 270Mb SDI

- 525i
- 625i

Video Output

- SDI, 1x BNC

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):

- SD (270 Mb) = 17.2 usec
- HD (1.5 Gb) = 6.3 usec
- 3G level A = 3.2 usec
- 3G level B = 6.1 usec

Audio Inputs and Outputs

- AES PCM Audio, 1 x 25 pin D female connector on converter, 8 channels in, 8 channels out, selectable in pairs.
- Breakout cable provided with 1 x 25 pin D male connector:
 - 4 x XLR female input breakout connectors (AES3 110 ohm)
 - 4 x XLR male output breakout connectors (AES3 110 ohm)

Audio Data Formats

- AES3-2003
- SMPTE 337M

Digital Audio Converters

- 24-bit

Embedded Audio

- SMPTE 272M (SD): 20-bit, 48KHz synchronous
- SMPTE 299M (3G/HD): 24-bit, 48KHz synchronous
- Incoming embedded audio can be passed, removed, or overridden.
- Up to 16 channels supported.

NOTE: 2048x1080p/psf 29.97 and 30 formats support a maximum of 8 channels embedded audio. **Embed Path Audio Latency**

(time measured between audio input and video output connector):

- 1500 usec (SRC ON)
- 400 usec (SRC OFF)

Disembed Path Audio Latency

(time measured between video input and audio output connector):

- 210 usec

User Controls

- External DIP switch
- USB port used with MiniConfig software application to configure device via PC/Mac

Power

- +5-20VDC, 5 watts. Power Supply Required (included with purchase)

Size

- 5.8" x 3.1" x 1" (147 x 79 x 25 mm)

Environment

- *Operating Temperature:* 0 to 40 degrees C (32 to 104 degrees F)
- *Operating Relative Humidity:* 10-90% non-condensing
- *Operating Altitude:* <2,500 meters (<8,000 feet)
- *Safe Storage Temperature (Power OFF):* -40 to 60 degrees C (-40 to 140 degrees F)