



OG-ROI-DVI

AJA's OG-ROI-DVI is an openGear card that allows exceptionally high-quality conversion of computer and DVI signals to 3G-SDI baseband video. With incredible region-of-interest image scaling as well as aspect and frame rate conversion, OG-ROI-DVI fulfills the growing need to properly incorporate computer signals into the video world without sacrificing budget or space.

<https://www.aja.com/products/og-roi-dvi>

Video Input Formats

- Computer Signals:
 - WUXGA (1920 x 1200) 60 Hz max
 - VGA (640 x 480) minimum
- Video Signals:
 - (HD) 1920 x 1080i 50, 59.94
 - (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
 - (HD) 1280 x 720p 50, 59.94, 60
 - (SD) 625i, 525i
 - (SD) 580p, 480p

Note: Frame rates limited by the 166 mHz max pixel rate of the DVI receiver.

Video Output Formats

- (HD) 1920 x 1080p 50, 59.94, 60, SMPTE 425-1 Level A mapping structure 1 (4:2:2 10-bit YCbCr)
- (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30
- (HD) 1920 x 1080i 50, 59.94, 60
- (HD) 1280 x 720p 50, 59.94, 60
- (SD) 625i 25
- (SD) 525i 29.97

Color Range

- Full
- SMPTE

Reference Source

- Free Run
- Card Ext Ref
- OG Frame Ref 1

- OG Frame Ref 2

Reference Input

- Supported reference video inputs include:
 - 1080i tri-level sync
 - 1080p tri-level sync
 - 720p tri-level sync
 - 625i Color Black
 - 525i Color Black
- 75 ohm terminating

Video Input

- 1x DVI input connector (with embedded audio, up to 8-channels)

Video Outputs

- DVI
 - 1x HDMI loop through connector (with embedded audio, up to 8-channels)
- SDI
 - 3G-SDI, SMPTE-259/292/424, 1x BNC

Audio Inputs

- 2-channel balanced analog audio inputs, 2x 3-pin terminal blocks connectors

Audio Output

- SDI embedded audio, 24-bit, 2-channel or 8-channel

User Interface



- 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, 12.0 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)