



OG-ROI-SDI

AJA's OG-ROI-SDI is an openGear card that allows exceptionally high-quality scan conversion of SDI inputs to 3G-SDI and HDMI baseband video out. With incredible region-of-interest image scaling as well as aspect ratio and frame rate conversion, OG-ROI-SDI fulfills the growing need to properly incorporate extractions from 3G-SDI sources into 3G-SDI and HDMI feeds without sacrificing budget or space.

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

Video Input Formats

- Video Signals:
 - (HD) 1920x1080i 50, 59.94
 - (HD) 1920x1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
 - (HD) 1280x720p 50, 59.94, 60
 - (SD) 625i, 50
 - (SD) 525i, 59.94

Video Output Formats

- (HD) 1920x1080p 50, 59.94, 60, SMPTE 425-1 Level A mapping structure 1 (4:2:2 10-bit YCbCr)
- (HD) 1920x1080p 23.98, 24, 25, 29.97, 30
- (HD) 1920x1080i 50, 59.94, 60
- (HD) 1280x720p 50, 59.94, 60
- (SD) 625i 50
- (SD) 525i 59.94

Color Range

- Full
- SMPTE

Reference Source

- Free Run
- Ext Ref

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

Video Outputs

- 1x 3G-SDI BNC, loop through
- 1x 3G-SDI BNC, SMPTE-259/292/424
- 1x HDMI Type A, HDMI v1.4

Audio I/O

- 24-bit, 16-channel embedded SDI audio input
- 24-bit, 16-channel embedded SDI audio output
- 24-bit, 8-channel HDMI audio output
- Balanced analog audio outputs, 2x 3-Pin terminal block connectors

User Interface

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

Size

- 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, 7.0 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)