



ROI-DP

AJA's ROI-DP Mini-Converter allows exceptionally high quality conversion of computer DisplayPort outputs to baseband video over SDI at an affordable price and a very portable size. With extensive audio functionality, incredible image scaling as well as aspect and frame rate conversion, ROI fulfills the growing need to properly incorporate computer signals into the video world without sacrificing budget or space.

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

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 DP 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 Input

- Supported reference video inputs include:
 - 1080i tri-level sync
 - 1080p tri-level sync
 - 720p tri-level sync
 - PAL 625 bi-level sync
 - NTSC 525 bi-level sync

Video Input

- 1x DisplayPort 1.1a input connector

Video Outputs

- DisplayPort
 - 1x DisplayPort pass through connector
- SDI
 - 3G-SDI, SMPTE-259/292/424, 1 x BNC

HDCP

- ROI-DP does not encode the DisplayPort output with HDCP encryption
- ROI-DP does not accept HDCP input

Audio Inputs

- 1x Analog 3.5mm TRS, 2-channel
- DisplayPort embedded audio, 24-bit, 8-channel

Audio Outputs

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

User Interface

- USB port used with supplied cable and Mini-Config software application to configure device via Mac or Windows

Size (w x d x h)

- 5.77" x 4.02" x 0.9" (146.5 x 102.2 x 22.9 mm)

Weight

- 0.5 lb (0.3 kg)

Power

- Uses AJA power supply model DWP-U-R1 (included with purchase)
- 100-240V, 50/60 Hz Universal Input
- +5 to 20V DC regulated, 7 watts max



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)