

# AJA ROI-HDMI ROI DVI to SDI Mini-Converter

## Video Input Formats

- **Computer Signals:**
- WUXGA (1920 x 1200) 60 Hz max
- VGA (640 x 480) minimum
- Note: Frame rates limited by the 166 MHz max pixel rate of the HDMI receiver.
- **Video Signals:**
- (HD) 1920 x 1080i 25, 29.97
- (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1280 x 720p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (SD) 625i, 525i
- (SD) 580p, 480p

## Video Output Formats

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

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

## Video Outputs

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

## HDCP

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

## Audio Inputs

- 1 x Analog 3.5mm TRS, 2-Channel
- HDMI embedded audio, 24-bit, 8-Channel

## Audio Output

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

## User Controls

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

## Size (w x d x h)

- 5.765" x 4.02" x 0.9" (146.431mm x 102.108mm x 22.86mm)

## Power

- Uses AJA power supply model DWP-U-R1, included with purchase
- 100-240V, 50/60 Hz Universal input

- +5 to 20V DC regulated, 9 watts max

## **Environment**

- Safe Operating Temperature: 0 to 40 degrees C (32 to 104 degrees F)
- Safe Storage Temperature (Power OFF): -40 to 60 degrees C (-40 to 140 degrees F)
- Operating Relative Humidity: 10-90% noncondensing
- Operating Altitude: <3,000 meters (<10,000 feet)