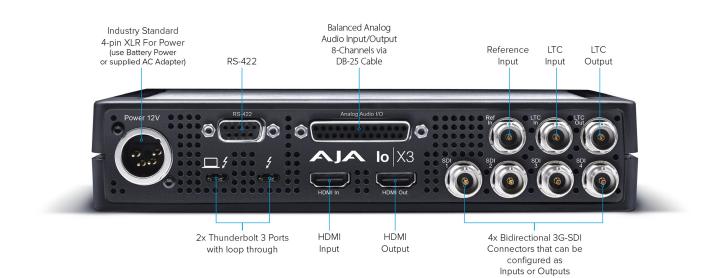




https://www.aja.com/products/io-x3

#### \$1599 US MSRP



## Video Formats

- (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60
- (2K) 2048 x 1080PsF 23.98, 24, 25
- (HD) 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1080i 50, 59.94, 60
- (HD) 720p 50, 59.94, 60
- (SD) 625i 50

• (SD) 525i 59.94

**Note**: High Frame Rate support is dependent on Thunderbolt speed and system performance. Not all host systems will support all frame rates.

#### Video Input Digital

3G-SDI, SMPTE 425
 RGB 4:4:4 12-bit\*, YCbCr 4:2:2 10-bit



- 1.5G-SDI, SMPTE 292M
   Single Link UD SDIVCh
- Single Link HD-SDI YCbCr 4:2:2 10-bit270 Mbps SDI, SMPTE 259M-C
- YCbCr 4:2:2 10-bit, 8-bit
- HDMI v1.4b
- 30/36-bits/pixel, RGB or YUV, 2.25 Gbps
  - 2K, HD, and SD

\*Bit depth support is application dependent. Check with your software manufacturer for compatibility.

# Video Output Digital

- 3G-SDI, SMPTE 425
- RGB 4:4:4 12-bit\*, YCbCr 4:2:2 10-bit
  1.5G-SDI, SMPTE 292M
- Single Link HD-SDI YCbCr 4:2:2 10-bit
- 270 Mbps SDI, SMPTE 259M-C
- YCbCr 4:2:2 10-bit, 8-bit
- HDMI v1.4b
  - 30/36-bits/pixel, RGB or YUV, 2.25 Gbps
    - o 2K, HD, and SD with HFR support up to 60p (4:2:2), 10-bit

\*Bit depth support is application dependent. Check with your software manufacturer for compatibility.

### HDR

- SDI: VPID signaling for SDR/HDR Transfer Characteristics
- HDMI: HDR10 Support HDR Infoframe metadata, compatible with HDMI 2.0a/CTA-861.3
- HDMI: HLG Support compatible with HDMI 2.0b/CTA-861-G

**Note:** HDR support is application dependent. Check with your software manufacturer for compatibility.

## Audio Input Digital

- 16-channel, 16 and 24-bit SMPTE-259 SDI embedded audio, 48 kHz sample rate, synchronous
- 8-channel, 16 and 24-bit HDMI embedded audio, 48 kHz sample rate, synchronous

# Audio Output Digital

- 16-channel, 16 and 24-bit SMPTE-259 SDI embedded audio, 48 kHz sample rate, synchronous
- 8-channel, 16 and 24-bit HDMI embedded audio, 48 kHz sample rate, synchronous

## Audio Input Analog

- 8-channel, 24 and 16-bit D/A analog audio, 48 kHz sample rate, balanced, using industry standard 8x XLR on DB-25 breakout cable (cable not included)
- +24 dBu full scale digital (0 dBFS)
- +/- 0.2 dB 20 to 20 kHz frequency response
- Input supported across Ch 1-8, Ch 1-4, or Ch 5-8 depending on configuration chosen

## Audio Output Analog

- 8-channel, 24-bit D/A analog audio, 48 kHz sample rate, balanced, using industry standard 8x XLR on DB-25 breakout cable (cable not included)
- +24 dBu full scale digital (0 dBFS)
- +/- 0.2 dB 20 to 20 kHz frequency response
- Output supported across Ch 1-8, Ch 1-4, or Ch 5-8 depending on

configuration chosen

- 2-channel, 18-bit D/A analog audio, 48 kHz sample rate, unbalanced, using standard 3.5mm jack
  - 1.2V RMS full scale digital output level (0 dBFS)

### Downstream Keyer

• Supports graphics up to 2K/HD with alpha channel over video, matte or framebuffer, or framebuffer content over incoming video or matte

### LTC

- 1x BNC LTC input (dedicated)
- 1x BNC LTC output (dedicated)

#### Reference

- 1x BNC (dedicated)
- Analog Color Black (1V) or Composite Sync (2 or 4V)
- Nonterminating

# Electrical Interface

• Thunderbolt 3 (2x)

### Machine Control

- RS-422, Sony 9-pin protocol
- 9-pin D-connector pinout is as follows:

1	GND
2	RX-
3	TX+
4	GND
5	No Connection
6	GND
7	RX+
8	TX-
9	GND
Shell	GND

## Size (w x d x h)

• 8.74" x 7.09" x 1.65" (222.0 x 180.09 x 41.91 mm)

### Weight

• 3.1 lbs. (1.5 kg)

#### Power

• 10-20V, 23W typical, 28W max

### Environment

- Safe Operating Temperature Range: 0 to 35 C (32 to 95 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)