



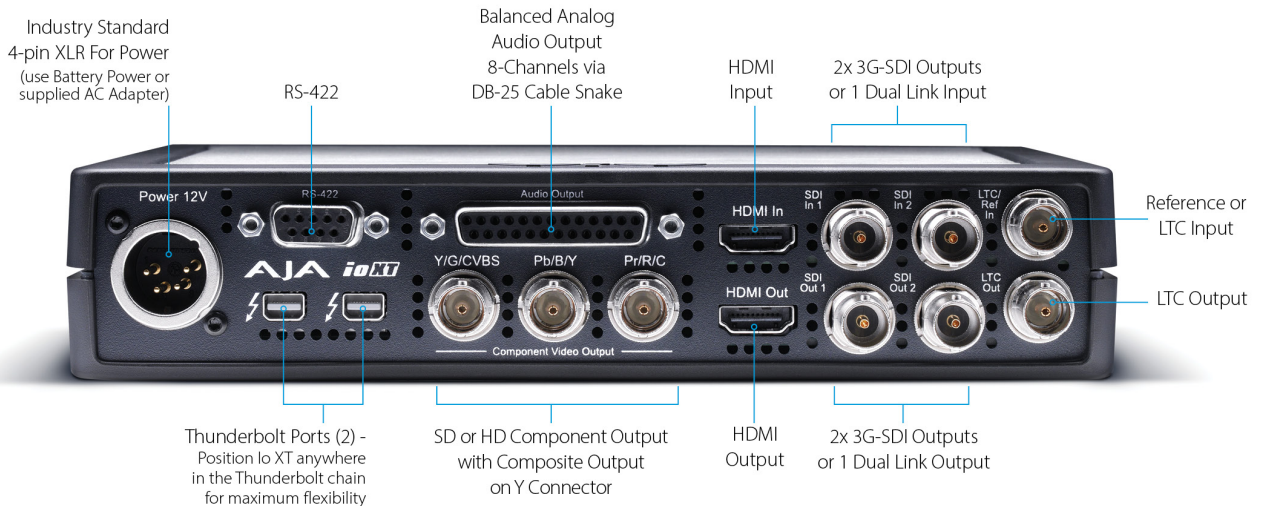
## io<sup>o</sup> XT

io XT is the ideal portable companion for lightning fast video capture and playback for professional post production and on set applications.

**\$1,495 US MSRP**

Compact, portable and powerful, io XT is loaded with high-end features including 3G/Dual Link/HD/SD-SDI, Component Analog, and HDMI connectivity, to bring true desktop level power to any Thunderbolt enabled system, with full uncompressed HD and SD 4:2:2 and 4:4:4 capable video and audio connectivity.

<https://www.aja.com/products/io-xt>



## Video Format

- (2K) 1080p 23.98, 24, 25
- (2K) 1080PsF 23.98, 24, 25
- (HD) 1080i 50, 59.94, 60
- (HD) 1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 720p 23.98\*, 24\*, 25\*, 29.97\*, 30\*, 50, 59.94, 60
- (SD) 625i 50
- (SD) 525i 23.98\*, 59.94

\*These formats are dependent on specific software functionality and are not normal over the wire formats

## Video Input Digital

- 3G-SDI, SMPTE-259/292/296/424, 10-bits
- Dual Link HD 4:4:4, (2x BNC)
- Single Link 4:2:2 or 4:4:4 (1x 3G BNC)
- HDMI v1.3
- 1D LUT Support (Mac and PC)

## Video Output Digital

- 3G-SDI, SMPTE-259/292/296/424
- Dual Link HD 4:4:4, (2x BNC)
- Single Link 4:2:2 or 4:4:4 (1x BNC)
- HDMI v1.4, 30/36 bits/pixel, RGB or YUV, 2.25 Gbps

## Video Output Analog

- Composite/S-Video (Y/C) (1x BNC/2x BNC+adapter)
- NTSC, NTSCJ, PAL
- Component (3x BNC)
- HD: YPbPr, RGB
- SD: YPbPr, RGB (component mode)
- SMPTE/EBU N10, Betacam 525 line, Betacam 525J, RGB
- 12-bit D/A, 8x oversampling
- +/- .2 dB to 5.0 MHz Y Frequency Response
- +/- .2 dB to 1 MHz C Frequency Response
- .5% 2T pulse response
- <1% Diff Phase
- <1% Diff Gain
- <1 ns Y/C delay inequity

## 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 Output Analog

- 8-Channel, 16 and 24-bit D/A analog audio, 48 kHz sample rate, balanced, using industry standard 8x XLR on DB-25 breakout cable (Breakout cable NOT included)
- +24 dBu Full Scale Digital (0 dbFS)
- +/- 0.2 dB 20 to 20 kHz frequency response

## Downstream Keyer

- Supports graphics with alpha channel over video, matte or framebuffer, or framebuffer content over incoming video or matte

## Up-Conversion

- Hardware 10-bit
- Anamorphic: fullscreen
- Pillarbox 4:3: results in a 4:3 image in center of screen with black sidebars
- Zoom 14:9: results in a 4:3 image zoomed slightly to fill a 14:9 image with black side bars
- ~~XXXXXX~~Zoom Letterbox: results in image zoomed to fill full screen
- Zoom Wide: results in a combination of zoom and horizontal stretch to fill a 16:9 screen; this setting can introduce a small aspect ratio change

## Down-Conversion

- Hardware 10-bit
- Anamorphic: fullscreen
- Letterbox: image is reduced with black top and bottom added to image area with the aspect ratio preserved
- Crop: image is cropped to fit new screen size

## Cross-Conversion

- Hardware 10-bit
- 1080i to 720p
- 720p to 1080i
- 720p to 1080PsF

## SD to SD Aspect Ratio Conversion

- Letterbox: This transforms SD anamorphic material to a letterboxed image
- H Crop: Will produce a horizontally stretched effect on the image; transforms anamorphic SD to full frame
- SD Pillarbox: Will produce an image in the center of the screen with black borders on the left and right sides and an anamorphized image in the center
- V Crop: Will transform SD letterbox material to an anamorphic image

## Reference Input or LTC Input

- 1x BNC assignable to Reference video or LTC input

## Reference

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

## Electrical Interface

- Thunderbolt 1 (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

---

- 1.8 lbs (0.8 kg)

## Power

---

- 10-20V, 18W typical, 22W 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)