

io4K

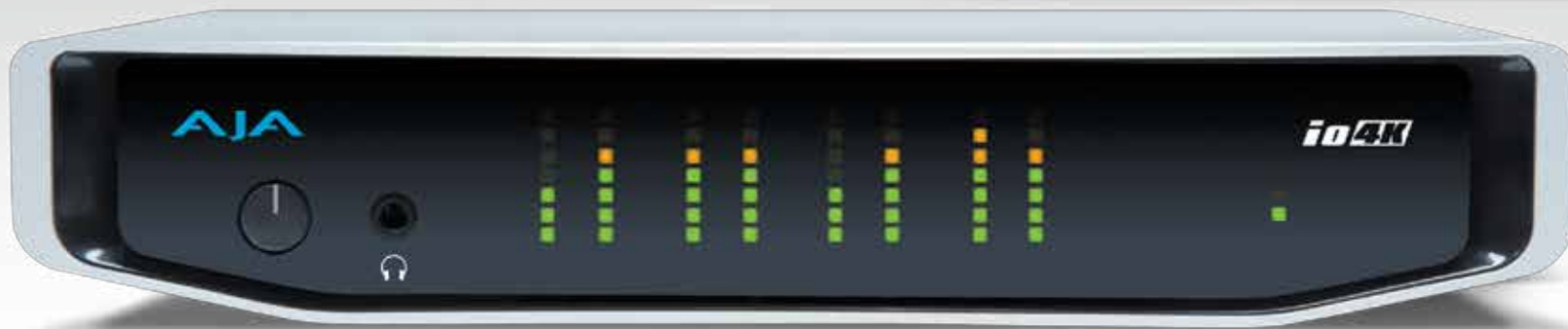


Maximum Thunderbolt™ 2 Performance



Because it matters.™

io4K



Extend your portable power with high quality 4K, 2K and HD I/O powered by Thunderbolt 2 technology.

Maximum Thunderbolt™ 2 Performance

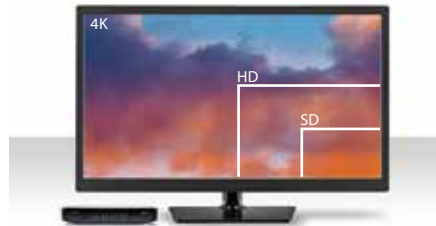
Portable 4K and HD I/O via SDI and HDMI

Io 4K is the evolution of AJA's popular devices for professional video I/O, now updated and customized for Thunderbolt™ 2 technology and 4K workflows. Io 4K connects to any Thunderbolt™ 2-enabled device such as the new Apple Mac Pro, and offers an additional Thunderbolt™ 2 port for daisy-chaining other peripherals such as high-resolution displays and high-capacity storage.

Io 4K offers a broad range of video and audio connectivity, supporting the latest 4K and UltraHD devices. AJA's proven conversion technology allows realtime high-quality scaling of 4K and UltraHD to HD. Io 4K also seamlessly integrates with leading post-production and delivery tools such as Apple Final Cut Pro X, Adobe Creative Cloud, AJA Control Room, Telestream Wirecast 5 and more.

Professional Connectivity

Whether you're working in an SDI-based workflow, utilizing cost-effective HDMI equipment or both, io 4K has you covered with a complete set of full-sized connections for video and audio as well as Reference, LTC and RS-422 control, making io 4K the choice for working professionals.



Futureproof

Take portable production and post to the next level with io 4K. Small enough to fit in a backpack but powerful enough for even the most demanding projects, io 4K can work with resolutions from SD up to 4K. Get the performance you need for current HD projects and move to UHD or 4K instantly when needed.



Powerful

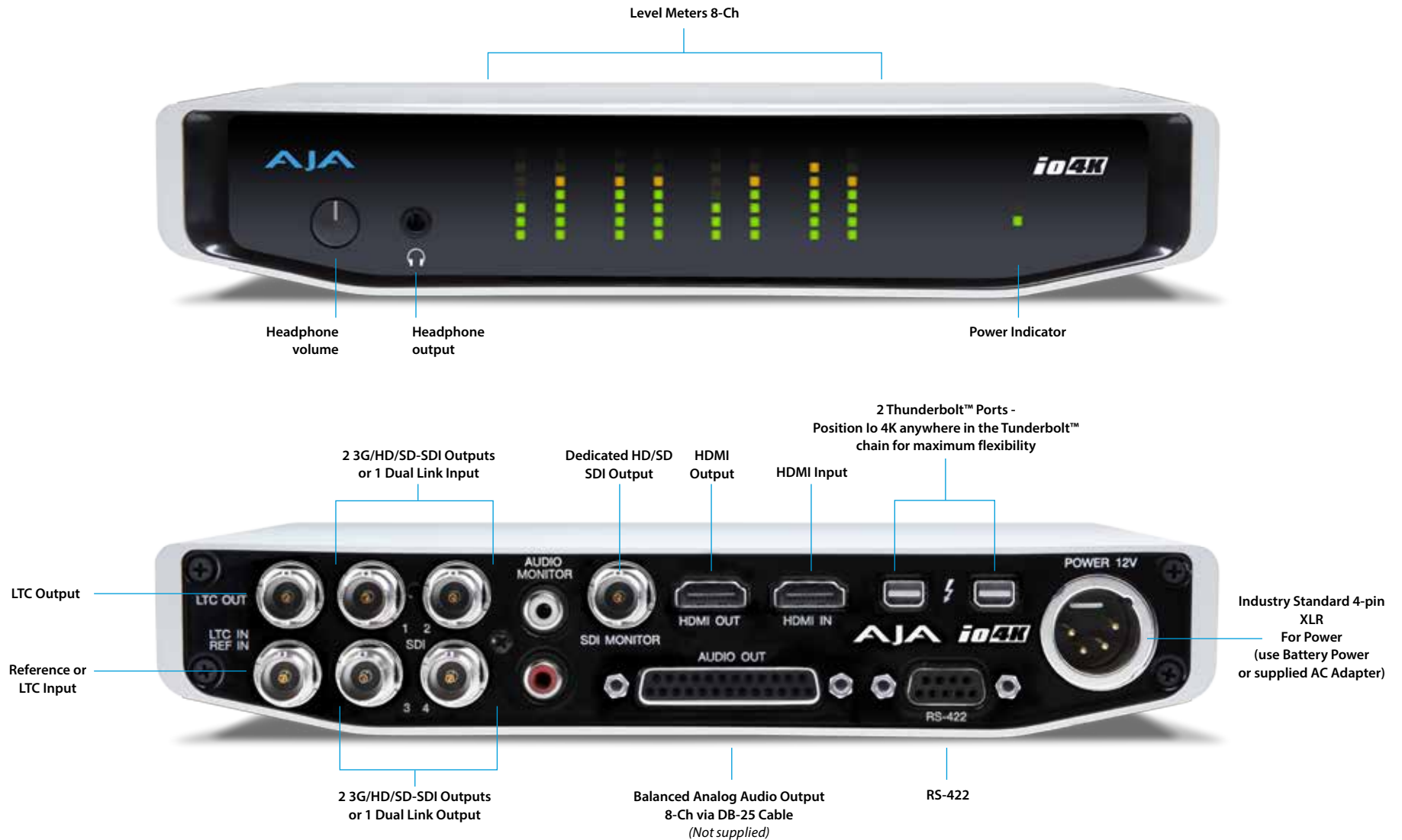
Thunderbolt 2 connectivity provides maximum throughput on set or in the studio. When working on 4K projects, the built-in downconverter and dedicated HD-SDI output let you use any HD monitor in conjunction with full-resolution SDI and HDMI outputs.



Compatible

io 4K utilizes AJA's proven driver and plug-in technology for compatibility with a wide range of editing and graphics software packages. Capture and monitor directly within your application of choice for a seamless workflow solution.

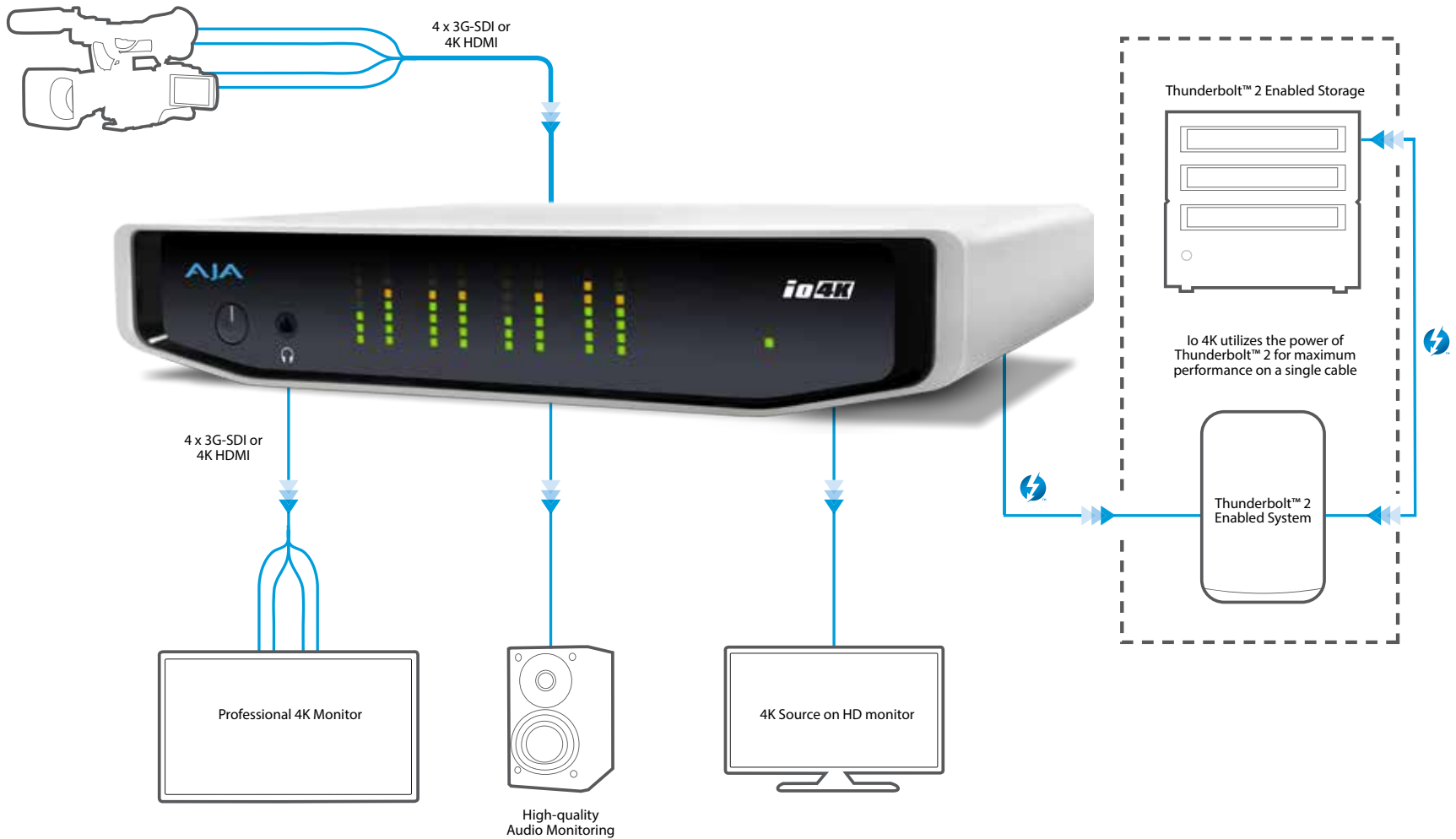
Connections



[Click here](http://www.aja.com/en/products/io-4k/#techspecs) For the most recent product specifications visit www.aja.com/en/products/io-4k/#techspecs

Workflow

Thunderbolt™-enabled workflow



Tech Specs

Video Formats

- SD
 - 480p
 - 525i 29.97
 - 625i 25
- HD
 - 720P 50, 59.94, 60
 - 1080i 50, 59.94, 60
 - 1080PsF 23.98, 24, 25, 29.97, 30
 - 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- 2K
 - 2048 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
 - 2048 x 1080PsF 23.98, 24, 25, 29.97, 30
- 4K
 - 3840 x 2160P 23.98, 24, 25, 29.97, 30
 - 3840 x 2160PsF 23.98, 24, 25
 - 4096 x 2160P 23.98, 24, 25, 29.97, 30
 - 4096 x 2160PsF 23.98, 24, 25

Video Inputs

- 3G/SD/HD SDI, SMPTE-259/292/296/424, 8 -or 10-bits
- Single Link 4:2:2 or 4:4:4 (1 x BNC)
- Dual Link HD 4:4:4 (2 x BNC)
- 2K HSDL (High Speed Data Link) 4:4:4, (2 x BNC)
- 4K/QuadHD 4:4:4 (4 x BNC)
- HDMI v1.4
 - 30/36 bits/pixel, RGB or YUV, 2.25Gbps.
 - SD, HD, 1080p-50/60, 4K, 2K and stereoscopic HD support

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Audio Inputs Digital

- 16-channel, 24-bit SDI embedded audio, 48kHz sample rate, Synchronous
- 8-channel, 24-bit HDMI embedded audio, 48kHz sample rate, Synchronous

Audio Output Digital

- 16-channel, 24-bit SDI embedded audio, 48kHz sample rate, Synchronous
- 8-channel, 24-bit HDMI embedded audio, 48kHz sample rate, Synchronous

Audio Output Analog

- 8-channel, 24-bit D/A analog audio, 48kHz sample rate, balanced (via 8x XLR on DB-25 breakout cable)
- +24 dBu Full Scale Digital (0 dBFS)
- +/- 0.2 bB 20Hz to 20kHz Frequency Response

Downstream Keyer

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

4K to HD Down-Conversion

- Real time, always-on dedicated down-conversion output (1 x BNC)
- 4K to 2K down-conversion
- UltraHD/QuadHD to HD down-conversion

Reference Input or LTC Input

- 1x BNC LTC Output
 - 1 x BNC assignable to Reference video or LTC input
- Reference:
- Analog Color Black (1V) or Composite Sync (2 or 4V)
 - Non-terminating

Physical

- Interface: Thunderbolt 2 (2 x)
- Power: 10-20V, 30-60W*

** Note: Nominal power is 30W. However, multiple connected Thunderbolt devices may place additional power demands on io4K, which could increase the power draw to 60W.*

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

[Click here](#)



For the most recent product specifications visit www.aja.com/en/products/io-4k/#techspecs

Incredible 3-year warranty

AJA Video warrants that its products will be free from defects in materials and workmanship for a period of three years from the date of purchase.

About AJA Video Systems, Inc.

Since 1993, AJA Video has been a leading manufacturer of video interface and conversion solutions, bringing high-quality, cost-effective digital video products to the professional broadcast and post-production markets.

AJA offers the Io and KONA desktop video products, Ki Pro family of recorders, miniature standalone converters, and a complete line of rack mount interface and conversion cards and frames. With a headquarters and design center located in Grass Valley, California, AJA Video offers its products through an extensive sales channel of dealers and systems integrators around the world. For further information, please see our website at www.aja.com

B e c a u s e i t m a t t e r s .[™]

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