

io

Io XT and Io Express.
Power to go.



Because it matters.

AJA®
VIDEO SYSTEMS

Io XT and Io Express. Power to go.

Io XT and Io Express deliver powerful workflows in the most compact form, bringing flexible I/O and high performance to any compatible workstation.

The needs of video professionals are becoming more and more mobile. With more editorial and graphics being done on set and the ability to run full-featured software on laptop computers, the need for a compact video and audio I/O solution has rapidly increased. AJA Io XT and Io Express answer that call by providing desktop-level functionality in a portable form factor that's powerful enough to deliver in the edit suite, and sturdy enough to handle life in the field.

Housed in a rugged chassis, Io XT and Io Express are small and light enough to carry in a backpack along with a laptop, giving editors a fully-functional editing system to carry with them at all times without having to transport large racks of additional gear. For times when you need a rackmounted solution, both units are a standard 1RU high and only half the width of a standard 19" rack space. This allows two Io units to be mounted in a single rack space using the available rackmount kit.

With support for major editing and graphics software, the Io family can give you the mobility you need without compromising functionality or reliability. Io XT is a Thunderbolt™-enabled I/O device that takes full advantage of the blazing fast Thunderbolt™ connection to offer high quality capture and playback. Compatible with PC or Mac, Io Express can be connected via PCIe card or ExpressCard interfaces, offering the flexibility to work on any platform, in the software of your choice.

Built to the exacting standards of all AJA hardware, Io XT and Io Express are backed by our world-class support network, 3-year international warranty and advanced exchange service.

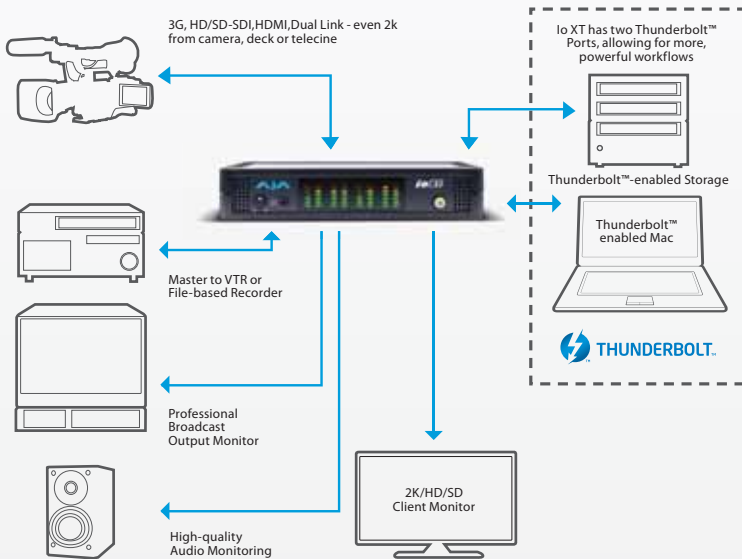


Portable I/O for any workflow.

Ingest, Edit, Monitor and Master

ioXT

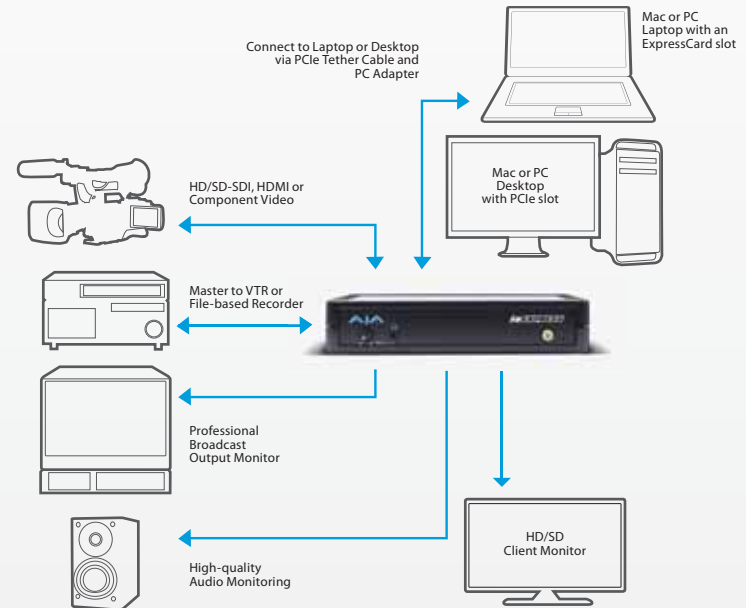
Thunderbolt™-enabled workflow



Ingest, Edit, Monitor and Master

ioEXPRESS

Cross-platform, laptop or desktop workflow



Connect your digital sources via SD/HD-SDI or HDMI for capture and editing via a wide variety of formats. Master to any Digital or Analog device through high-quality professional SDI, HDMI or Component outputs.

Harness the power of Thunderbolt™.



Turn any Thunderbolt™-enabled system into a professional editing station for uncompressed HD and SD 4:2:2 and 4:4:4 workflows.



The newest generation of computers feature powerful Thunderbolt™ interfaces, offering a mind-blowing 10Gbps available bandwidth. Taking advantage of this new interface, io XT is the ideal portable companion for lightning-fast video capture and playback for professional post production and on set applications.

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.

io XT connects with a single Thunderbolt™ cable and provides a second Thunderbolt™ connector for daisy-chaining other Thunderbolt™-enabled devices, such as storage, making it perfect for on set, or in the edit suite.

Designed for today's workflows, io XT provides complete compatibility with the most popular NLE programs, the newest codecs, video formats, stereoscopic 3D workflows, and more. io XT also includes AJA's industry-best OS X drivers and application plug-ins for integrated workflows with software from Apple, Avid, Adobe, Autodesk, and many more.

[Click here](#) ▶

For full product specifications visit www.aja.com/io-xt/techspecs

Features

Uncompromised compact power

In combination with a Thunderbolt™-enabled system, io XT creates a powerful workstation, for ingest, edit, monitoring and mastering.

With a full compliment of 3G/HD/SD- SDI and HDMI I/O, HD/SD analog video output, reference and LTC inputs, and digital and analog audio, io XT has all the power of a desktop device in a portable form factor. This opens up new possibilities for what can be considered a professional editing system. No longer confined to desktide tower systems, the combination of io XT and smaller systems such as an iMac or Mac mini has all the capability and power of a larger system that can be easily transported as needed.



Thunderbolt™ “daisy-chaining”

io XT connects with a single Thunderbolt™ cable and provides a second Thunderbolt™ connector for daisy-chaining other devices, such as storage or displays, making it perfect for on set, or in the edit suite.

Disconnecting a device in the middle of a Thunderbolt™ chain will disconnect all devices that come after it. On some jobs, the drive array may be moved frequently, so it would be best to have that at the end of the chain, while other times it may be a monitor that is being removed periodically. io XT’s dual Thunderbolt™ ports ensure that no matter what configuration you need, the system can continue to operate without interruption.



Integrated AJA hardware conversion

io XT utilizes AJA’s high-quality up/down/cross-conversion hardware, the same found in our flagship FS2 converter. Conversion can be done either on capture or on output. On capture, this allows you to take mismatched source media and bring it all to a common resolution so individual shots don’t have to be scaled in the edit. Likewise, io XT can perform conversions during output to adapt to different monitoring or layoff configurations without having to change the native editorial timeline.

Uniquely, the io XT can cross-convert 720p 23.98 to 1080PsF 23.98, which is particularly valuable in today’s multi-format HD post environment.



Front and rear panels



Case study

Xite Network Delivers Broadcast Television Programming with AJA Io XT

Amsterdam-based broadcaster Xite delivers music programming and video on-demand via cable and IPTV networks throughout most of Holland and the Dutch-speaking region of Belgium. Every week, Xite also produces about three hours of original programming including a Friday show that highlights the best performing videos, concert specials, festival reviews, artist interviews, and more, and plans to further expand their content delivery in the future. Despite the volume of programming broadcast, Xite runs a relatively small operation, with a broadcast technology infrastructure that entails a Mac Mini running ToolsOnAir's software with AJA Video System's Io XT portable I/O device connected via Thunderbolt with SDI out to deliver the signal.

"With our previous production pipeline, we were using a more traditional setup with storage and play-out software," said Xite Product Manager Luc Vleugels. "As hard as we tried to make it a cross-media publishing platform, it wasn't working, so we rebuilt our pipeline from the ground up. Now, we have our own asset management system and can play-out running with just the Mac Mini and Io XT."

Xite's relatively small team of 10 employees combined with their portable setup make the broadcaster agile, enabling them to set up pretty much wherever they can connect to a broadcast network. Their flexible technology infrastructure not only takes up a much smaller footprint but connecting a new channel can now be completed in mere days. "I can fit a broadcast channel in my suitcase with Io XT and a Mac Mini," continued Vleugels.

"Before switching to Io XT, we were using an Ultrastudio 3D—we were always concerned with the reliability of that device because it would get really hot. After broadcasting for a couple of weeks with the Io XT we noticed several additional improvements, including more precise operation of the internal clock which is really important when we're having two systems sync to one another and the performance is great, Vleugels said. "We can serve more channel customers and still take up a very small footprint. The Mac Mini and Io XT are combined in a single rackmount and that's all we need to run our network. Right now, we have two active channels and two redundant systems as backup only taking up four rack units."



TV - direct from Io XT

Xite's software pipeline includes broadcast server solution ToolsOnAir just: Broadcast suite, which easily integrates with Io XT. Their custom built content management system delivers info to well organized folders on the Mac Mini hard drive, which is scheduled via ToolsOnAir on the timeline, and then Io XT sends the signal to the broadcaster. Xite also developed a fully automated Quartz file that generates the now/next/news and promotional graphics on screen.

"ToolsOnAir and the Io XT are really fun to produce with and more importantly, it all just works," concluded Vleugels.

Cross-platform monitoring and mastering.

Io Express delivers compact, powerful I/O for PC or Mac, laptop or desktop.



Io Express is the perfect Mac or PC interface for anyone who needs a quality portable monitoring and mastering solution when working with Final Cut Pro X, Avid Media Composer/Symphony/Newscutter, Adobe Creative Suite, and more.

Featuring full 10-bit, broadcast-quality HD to SD hardware down-conversion and automatic HD/SD 12-bit component analog output, Io Express offers conversion flexibility all the time - during ingest or playback. If you work with a wide variety of formats, frame rates and video/audio sources, Io Express provides the connectivity you need. With its small footprint it offers big features, like 10 or 8-bit uncompressed video, HDMI I/O, HD/SD-SDI I/O with 8 channels of embedded audio, analog component video (SD/HD) or composite output, 2-channel unbalanced audio output, and broadcast quality hardware-based down-conversion for flexible post production. The HDMI I/O is v1.3a at 30 bits per pixel, providing ideal support for the very latest 10-bit monitors.

Io Express integrates with other equipment and software easily, regardless of platform. The same Io Express unit can be used with PC or Mac, desktop or laptop - giving users the flexibility to choose how they want to work in each scenario. A rear panel PCIe connector enables use with laptops via an ExpressCard, or with a Mac Pro or Windows workstation via a PCIe card.

Regardless of your software of choice; from Apple Final Cut Pro X, Avid Media Composer, Newscutter or Symphony, to Adobe Creative Suite, Io Express is the ideal cross-platform solution for uncompressed capture and file-based support.

Features

Powerful connectivity

Io Express provides exactly what you need in a compact I/O unit. For digital video, the box features HDMI 1.3a I/O plus 3G/HD/SD-SDI I/O. In addition there are connections for Genlock or LTC input and a loop-through output, and component SD/HD analog video output. The high-quality deep color HDMI input and output provides complete color representation when you need it, while allowing you to interface with HDMI camcorders and HD monitors.

Io Express offers support for both 8-channel HDMI and SDI embedded digital audio or 2 channels of unbalanced analog audio via two RCA connectors. For multi-channel audio mastering, the 8-channel SDI embedded 24-bit 48kHz audio provides pristine quality.



Cross-platform flexibility

However you choose to work, PC or Mac, laptop or desktop, Io Express can integrate seamlessly with your workflow.

Io Express can connect to laptops via an ExpressCard\34 slot or to tower systems via a PCIe card. Because the same Io Express unit works with either Mac or Windows, you are never locked to one platform.

With the ability to rack mount two Io Express units in a single 1RU space, you can have a secure setup while still having the mobility to change locations quickly.



Software compatibility

Io Express gives creative professionals the freedom to work with the software of their choice. Just some of the supported applications include:

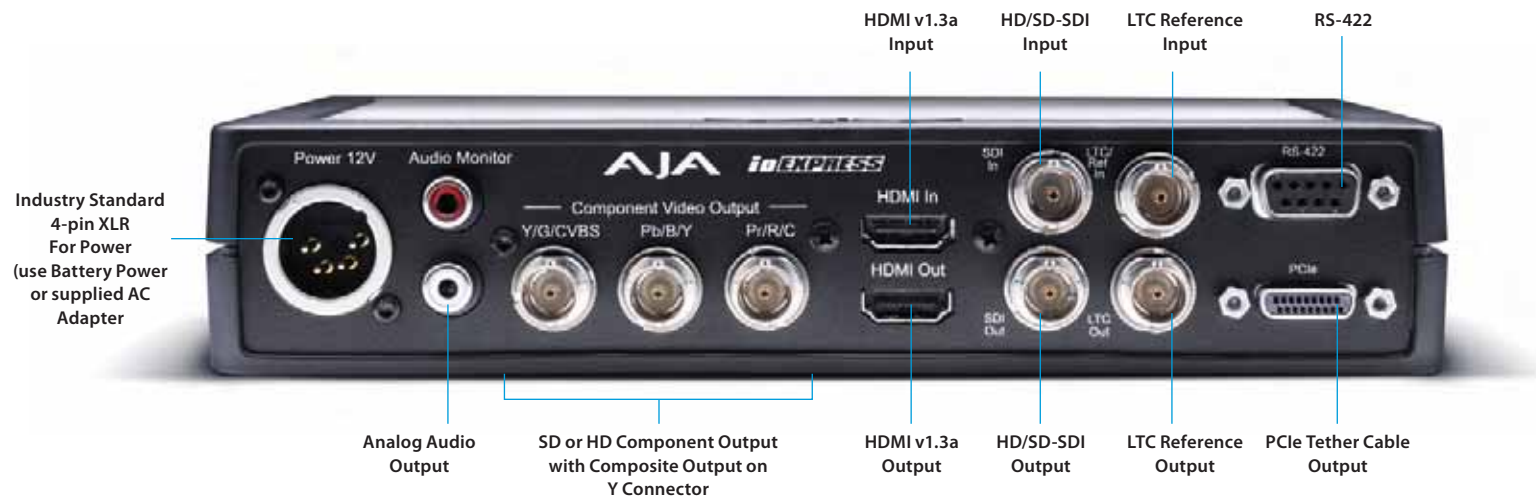
Mac OSX: Apple Final Cut Pro X, Avid Media Composer, Adobe Premiere Pro*, Adobe After Effects*, Adobe Photoshop* and more.

Windows 7: Adobe Premiere Pro*, Avid Media Composer, Adobe After Effects*, CineForm New 3D, Adobe Photoshop*, CineForm Neo HD, Sony Vegas, Eyeon Fusion 64 bit, Autodesk Combustion

**via AJA plug-in*



Front and rear panels



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

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B e c a u s e i t m a t t e r s .

