**AJA IO XT**
- Dual Thunderbolt™ ports
- Two 3G/HD/SDI inputs and outputs
- Single link 4:2:2 support, single and dual-link SDI 4:4:4 support
- HDMI input and output (including support for 3D)
- Analog HD/SD component and composite output, 10-bit
- Video Up, Down and Cross conversion (hardware-based, 10-bit)
- 8-channel embedded SDI audio I/O and balanced analog audio output (using an optional DB-25 type cable)
- Front panel LED VU meters
- Headphone output with level control
- Reference In/LTC In (selectable), LTC output and RS-422
- 5-pin XLR Power (AC adapter included)
- Thunderbolt™ cables not included

**AJA KONA LHI**
- HDMI ST/SD/SDI input/output
- HDMI v1.3a with Deep Color at 30 bits per pixel input/output
- 12-bit HD analog component input/output
- 12-bit HD analog component, composite or S-Video input/output
- 10-bit Hardware-based realtime up/down/cross-conversions
- DVCPro HD hardware acceleration
- Dynamic RT hardware acceleration
- 2-channel balanced XLR AES digital audio and 2-channel balanced XLR analog audio input/output
- 8-channel SDI-embedded audio input/output
- HD/SD genlock and RS422 machine control
- LTC input (on Reference input)
- Support for Final Cut Pro, Adobe applications and more
- Breakout cables standard, affordable breakout box optional

**AJA IOHD**
- Apple ProRes 422/HQ Codec
- SD, HD 720/1080, full-raster
- 10-bit 4:2:2, realtime, in hardware
- 10-bit 4:2:0, realtime, in hardware
- SD-SDI and HD-SDI I/O (2)
- Component (SD and HD) and S-video I/O
- HD/SD video with 2-channel audio I/O
- Embedded SDI 8-channel audio I/O
- AES/EBU 8-channel unbalanced audio I/O
- Analog 4-channel balanced audio output (XLR)
- Analog 2-channel unbalanced audio output (RCA)
- Genlock with loopthrough, RS-422 machine control, LTC Timecode I/O
- Connects to Mac via a single FireWire 800 cable

**AJA KONA LHE PLUS**
- HD-SDI, analog HD/SD
- 12-bit HD analog component I/O
- 12-bit SD analog component or composite S-Video I/O
- 18-bit hardware HD to SD down conversion
- HD-SDI input and SD-HD-SDI outputs
- 2-channel balanced XLR AES and 2-channel balanced XLR analog audio I/O
- 8-channel SDI embedded audio I/O
- HD/SD Genlock and RS-422 machine control
- Final Cut Pro, Motion, After Effects, Combustion and more
- KONA LHE Plus Breakout Cables supplied

**Blackmagic Design**
- **DECKLINK STUDIO AND SDI**
  - SDI solution, perfect for use with SDI decks/routers
  - Incredible quality HD-SDI capture and playback
  - 10-bit SD video card
  - Works in both SD and HD
  - Includes blackburst, tri-sync reference input
  - HD-SDI input and output, reference-in, and deck control RS-422 connections
  - 8 channels of SDI embedded audio and RS422 deck control
  - Studio version adds analog component, composite, S-Video, 4-channel balanced audio, 2 channels AES/EBU, 2 channels RCA audio
  - Studio version also adds built-in hardware down conversion (down converter always outputs to SD-SDI, Composite and S-Video outputs when working in HD video formats)
  - Windows or Intel-based Mac Pro compatible

**BLACKMAGIC DESIGN DECKLINK 4K EXTREME**
- Work in SD, HD and Ultra HD 4K
- Get 4 times the resolution of 1080 HD
- Ultra HD 4K capture and playback using 6G-SDI and HDMI 4K support
- Single and dual channel SDI connections
- Also has analog component, composite, S-video connections
- Genlock, deck control, broadcast quality up, down and cross conversion, plus built-in SD/HD internal keyer
- AES and analog balanced audio & 16 channel SDI audio
- Includes Deck Speed Test, LowKey, Blackmagic driver

**NEW!**
- DECKLINK-HD-EXT-4K
  - PCIe capture card, playback Dual Link SDI, HDMI, Analog, 4:4:4, 3D
  - 945.25

**DECKLINK-SDI**
- SDI solution, perfect for use with SDI decks/routers
- Incredible quality HD-SDI capture and playback
- 10-bit SD video card
- Works in both SD and HD
- Includes blackburst, tri-sync reference input
- HD-SDI input and output, reference-in, and deck control RS-422 connections
- 8 channels of SDI embedded audio and RS422 deck control
- Studio version adds analog component, composite, S-Video, 4-channel balanced audio, 2 channels AES/EBU, 2 channels RCA audio
- Studio version also adds built-in hardware down conversion (down converter always outputs to SD-SDI, Composite and S-Video outputs when working in HD video formats)
- Windows or Intel-based Mac Pro compatible

**DECKLINK-SI HD/SD-SDI capture and playback PCIe card**
- 280.25

**DECKLINK-DUO HD/SD-SDI capture and playback PCIe card**
- 470.25

**DECKLINK-OPT-FIBER As Decklink SDI with optical fiber I/O**
- 470.25

**DECKLINK-STUDIO-II HD/SD-SDI/SD-3G/HD-SDI capture and playback PCIe card**
- 660.25

**DECKLINK-HD-EXT-4K PCIe capture card, playback Dual Link SDI, HDMI, Analog, 4:4:4, 3D**
- 189.05

**DECKLINK-HD-EXT-SDI PCIe capture card, playback Dual Link SDI, HDMI, Analog, 4:4:4, 3D**
- 1995.00

**DECKLINK-SI HD/SD-SDI capture and playback PCIe card**
- 280.25

**DECKLINK-DUO HD/SD-SDI capture and playback PCIe card**
- 470.25

**DECKLINK-OPT-FIBER As Decklink SDI with optical fiber I/O**
- 470.25

**DECKLINK-STUDIO-II HD/SD-SDI/SD-3G/HD-SDI capture and playback PCIe card**
- 660.25

**BLACKMAGIC DESIGN INTENSITY PRO**
- HDMI digital video and audio I/O
- Capture direct from HDV cameras bypassing HDV compression chips
- Capture true 1920x1080 uncompressed
- Supports 525 NTSC, 525 PAL, 720HD, 1080HD switchable
- Real-time effect processing
- PCI Express architecture
- Includes On-Air 2.0 software (Mac only)
- Analog video component, NTSC, PAL or S-Video I/O
- 2 channels RCA audio I/O and S/PDIF output
- Will NOT capture from copy protected HDMI sources

**DECKLINK-HD-EXT-4K PCIe capture card, playback Dual Link SDI, HDMI, Analog, 4:4:4, 3D**
- 189.05

**DECKLINK-HD-EXT-SDI PCIe capture card, playback Dual Link SDI, HDMI, Analog, 4:4:4, 3D**
- 1995.00

**DECKLINK-SI HD/SD-SDI capture and playback PCIe card**
- 280.25

**DECKLINK-DUO HD/SD-SDI capture and playback PCIe card**
- 470.25

**DECKLINK-OPT-FIBER As Decklink SDI with optical fiber I/O**
- 470.25

**DECKLINK-STUDIO-II HD/SD-SDI/SD-3G/HD-SDI capture and playback PCIe card**
- 660.25
**Blackmagic Design ULTRAUDIO-3D**

- Thunderbolt™ technology at 10 GB/s data rate
- 10-bit 3GHD/SDI input/output, supports 3G and HD formats up to 1080p60 and 2K
- Supports uncompressed and compressed video capture and playback
- SDI, HDMI, AV/CHD, un compressed, and more
- Supports Final Cut Studio, Avid Media Composer, Premiere Pro, Photoshop, After Effects, DaVinci Resolve and more

**Blackmagic Design ULTRAUDIO STUDIO PRO**

- Broadcast-quality 3GHD capture and playback solution
- USB 3.0 connection
- High-speed editing with 3Gbps bandwidth
- Fast video processor for 10-bit quality hardware up, down and cross conversion.
- Connections include SDI built-in and HDMI, analog component, composite, S-Video, 4-channel analog audio, 3-channel AES, EBU audio via 7 breakout cables (included)
- Standard definition digital internal keyers
- Includes Black Magic Media Express software

**Blackmagic Design ULTRAUDIO-3D**

- Thunderbolt™ interface with 3D support

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**Blackmagic Design H Dolink**

- Thunderbolt™ technology at 10 GB/s data rate
- 3GSDI (3 Gbps) SDI in and out, supports HD, SD up to 1080p60 and 2K
- SDI inputs include full SDI re-clocking for capture from poor quality SDI sources
- HDMI I fixes in and out, supports SD and HD formats up to 1080p60 and frame packing 3D
- Ethernet based 10-bit Up, Down and Cross conversion
- Component, S-Video and composite in and out
- Component analog switches to S-Video and composite
- 2-channel balanced analog and AES/EBU unbalanced audio in and out
- Genlock/sync input and RS-422 control
- Supports uncompressed, compressed, 6- and 10-bit video capture and playback
- Supports SD, HD, SDI Capture and playback high-definition video via HDMI
- Works with Mac and PC, laptops and desktops

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**Blackmagic Design MXO2 LE**

- HD/SDI HDMI analog component, Y, and composite inputs and outputs
- 10-bit HDMI input, output and monitoring with calibration controls including blue-only and 10-bit real-time hardware updown/cross conversion on capture and output
- Genlock – SD analog black burst (bi-level) or HD tri-level sync
- Up to five user-selectable simultaneous video outputs – HD/SD and HDMI, analog, SDI, analog
- File-based workflow support – XDCAM, XDCAM HD, XDCAM EX, P2, P2HD
- RS-422 machine control
- HD-SDI closed captioning support
- Use with Industry Standard NLE Software
- Works with Final Cut Pro, Adobe Premiere Pro, Apple Color, Adobe After Effects and all QuickTime applications that support the Y component
- Some models include MAX H264 encoder and/or Thunderbolt™ high-speed I/O technology

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**Blackmagic Design MXO2 COMPLETE I/O**

- HDSDI, HDSDI analog component, Y, and composite inputs and outputs
- HDMI input, output, and monitoring with calibration controls including blue-only
- Genlock – SD analog black burst (bi-level) or HD tri-level sync
- 10-bit real-time hardware updown/cross conversion
- 5 selectable simultaneous video outputs – HD and/or SD on HDMI, SDI, analog
- Professional audio inputs and outputs with S and T1 surround sound monitoring
- RS422 machine control
- Frame-accurate capture and print-to-tape
- Supports file-based workflows
- Works with Apple Pro Applications and Adobe
- After Effects, Premiere Pro and Encore and all QuickTime applications that support the Y component
- Includes PCI Express and ExpressCard/34 adapters
- Some models available with MAX H264 encoding and/or Thunderbolt™ technology

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**Blackmagic Design ULTRASTUDIO EXPRESS**

- Thunderbolt™ technology at 10 GB/s data rate
- 10-bit 3GHD/SDI input/output, supports 3G and HD formats up to 1080p60, and cross conversion
- Component, S-Video and composite input/output
- 2-channel balanced analog and unbalanced AES/EBU input/output
- Genlock/sync input and RS-422 control
- Supports uncompressed/compressed SD and HD video capture and playback
- Supports Final Cut Studio, Avid Media Composer, Premiere Pro, Photoshop, After Effects, DaVinci Resolve and more

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**Blackmagic Design INTENSITY SHUTTLE**

- Capture and playback HDMI and component analog video in 3D and HD
- USB 3.0 connection
- 4Gbps, handles 10-bit uncompressed 1080p video
- Connect to cameras and digital set top boxes via HDMI
- Independent connections for component, composite, and S-Video
- Dual rate support allows HDMI and Analog Component to switch between HD and SD
- Thunderbolt™ model available, powered over Thunderbolt cable

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**MATrox MXO2 MINI**

- High definition HDMI and analog I/O
- Works with Mac and PC, laptops and desktops
- Small, lightweight, external box that’s easily connected to your cameras and monitors
- Capture and playback high-definition video via HDMI and analog component; or NTSC and PAL via analog component
- Moves your favorite applications including Final Cut Pro, Adobe Premiere Pro, Apple Color, Adobe After Effects and all QuickTime applications that support the Y component
- Available with Matrox MXO2 HDMI24 encoding and/or Thunderbolt™ high-speed I/O technology

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**MATrox MXO2 LE**

- HDSDI, HDSDI analog component, Y, and composite inputs and outputs
- HDMI input, output, and monitoring with calibration controls including blue-only and 10-bit real-time hardware updown/cross conversion
- Genlock – SD analog black burst (bi-level) or HD tri-level sync
- Up to five user-selectable simultaneous video outputs – HD and/or SD on HDMI, SDI, analog
- Professional audio inputs and outputs with S and T1 surround sound monitoring
- RS422 machine control
- Frame-accurate capture and print-to-tape
- Supports file-based workflows
- Works with Apple Pro Applications and Adobe
- After Effects, Premiere Pro and Encore and all QuickTime applications that support the Y component
- Includes PCI Express and ExpressCard/34 adapters
- Some models available with MAX H264 encoding and/or Thunderbolt™ technology

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**MATrox MXO2 COMPLETE I/O**

- HDSDI, HDSDI analog component, Y, and composite inputs and outputs
- HDMI input, output, and monitoring with calibration controls including blue-only
- Genlock – SD analog black burst (bi-level) or HD tri-level sync
- 10-bit real-time hardware updown/cross conversion
- 5 selectable simultaneous video outputs – HD and/or SD on HDMI, SDI, analog
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- Small, lightweight, external box that’s easily connected to your cameras and monitors
- Capture and playback high-definition video via HDMI and analog component; or NTSC and PAL via analog component
- Moves your favorite applications including Final Cut Pro, Adobe Premiere Pro, Apple Color, Adobe After Effects and all QuickTime applications that support the Y component
- Available with Matrox MXO2 HDMI24 encoding and/or Thunderbolt™ high-speed I/O technology
Blackmagic Design ATEM Television Studio

This live production switcher combines a professional switcher with a broadcast-quality H.264 encoder. With a user-intuitive software control panel, you can control the ATEM from a Mac or PC laptop. The ATEM features 10-bit digital design for high quality video with a low processing delay. It also has an upstream keyer with chroma, pattern, and linear keying and a built-in multi-view allowing 16 channels of video to be displayed on one HDMI monitor. Connections include (4) SDI video inputs (10-bit SD/HD), (4) HDMI video inputs, (1) AES/EBU, (1) USB 2.0 and Ethernet.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEM-TV-STUDIO</td>
<td>Pro switcher with H.264 encoder</td>
<td>945.25</td>
</tr>
</tbody>
</table>

Blackmagic Design ATEM Production Switchers

Both the 1 M/E and 2 M/E are compact, portable production switchers. Control the switchers with the software control panel via a Mac or PC laptop or the dedicated broadcast panels. The 1 M/E has (4) SDI inputs, (4) HDMI inputs, analog input, USB 3.0, frame resynchronizer, DVE transitions, 6 keys, multiview and more. The 2 M/E has (12) SDI inputs, (4) HDMI inputs, analog input and USB 3.0. Other features of the 2 M/E include SuperSource multi-layering, composite engine, 2 multiview outputs and a second M/E row.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
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<tbody>
<tr>
<td>ATEM-1-ME-PRODSWITCH</td>
<td>ATEM 1 M/E switcher, 2RU</td>
<td>2370.25</td>
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<tr>
<td>ATEM-2-ME-PRODSWITCH</td>
<td>ATEM 2 M/E switcher, 3RU</td>
<td>4745.25</td>
</tr>
</tbody>
</table>

Blackmagic Design ATEM Production Studio 4K and Broadcast Panels

The ATEM Production Studio 4K lets you connect up to 8 SD, HD or UltraHD 4K video cameras, disk recorders and computers. It includes chroma key, transitions, media pool, downstream keys, audio mixer, multi-view and the world’s first 6G-SDI and HDMI 4K video connections. Gain greater control of your ATEM switcher with the ATEM broadcast panels. The compact 1 M/E panel fits within a rack width and controls sources, transitions, keys, DVE control and more. It has 10 direct cross points and one fader bar. The 2 M/E panel is designed for complex live broadcast events and features 20 direct cross points, 2 faders and a second M/E row. Both panels connect via Ethernet and have a loop thru for a computer.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>ATEM-PROD-Studio-4K</td>
<td>UltraHD 4K live production switcher</td>
<td>1995.00</td>
</tr>
<tr>
<td>ATEM-1-ME-BROADPANEL</td>
<td>1 M/E broadcast panel</td>
<td>4745.25</td>
</tr>
<tr>
<td>ATEM-2-ME-BROADPANEL</td>
<td>2 M/E broadcast panel</td>
<td>CALL</td>
</tr>
</tbody>
</table>

Datavideo SE-500 Analog Video Mixer/Switcher

A 4-channel mixer featuring S-video (Y/C) and composite video inputs. Features include dissolve, fade, wipes, splits, PIP and color processor. Channels are internally synced via a built-in dual-channel TBC 4:2:2 frame synchronizer. Has component (YUV) via breakout cable, S-video (Y/C) or composite video output. The SE-500 displays all 4 input sources via a single quad output so only 2 video monitors are needed — one for all inputs, one for output. The input display will also automatically change to preview the next transition if selected. Unit can be manually operated or via RS232 interface. The HS-500 is a mobile studio that pairs the SE-500 mixer/switcher with the TLM-702 dual 7”-16:9 widescreen monitor unit in a lightweight suitcase with rear access for cables.

<table>
<thead>
<tr>
<th>ITEM</th>
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<tbody>
<tr>
<td>SE-500</td>
<td>4-channel video mixer</td>
<td>960.00</td>
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<tr>
<td>TLM702</td>
<td>Dual 7&quot; 16:9 widescreen monitor unit</td>
<td>816.00</td>
</tr>
<tr>
<td>HS-500</td>
<td>Hand-carried studio with SE-500 switcher and TLM-702 monitor unit</td>
<td>2112.00</td>
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<tr>
<td>SE-500-KIT</td>
<td>4-channel video mixer with (2) TLM-702 monitors</td>
<td>1968.00</td>
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<tr>
<td>SE-500-DNKNIT-NTSC</td>
<td>4-channel video mixer with TLM-702 monitor,</td>
<td>3408.00</td>
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<tr>
<td></td>
<td>DN-501 recorder/player, RMK-572 monitor holder</td>
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</table>