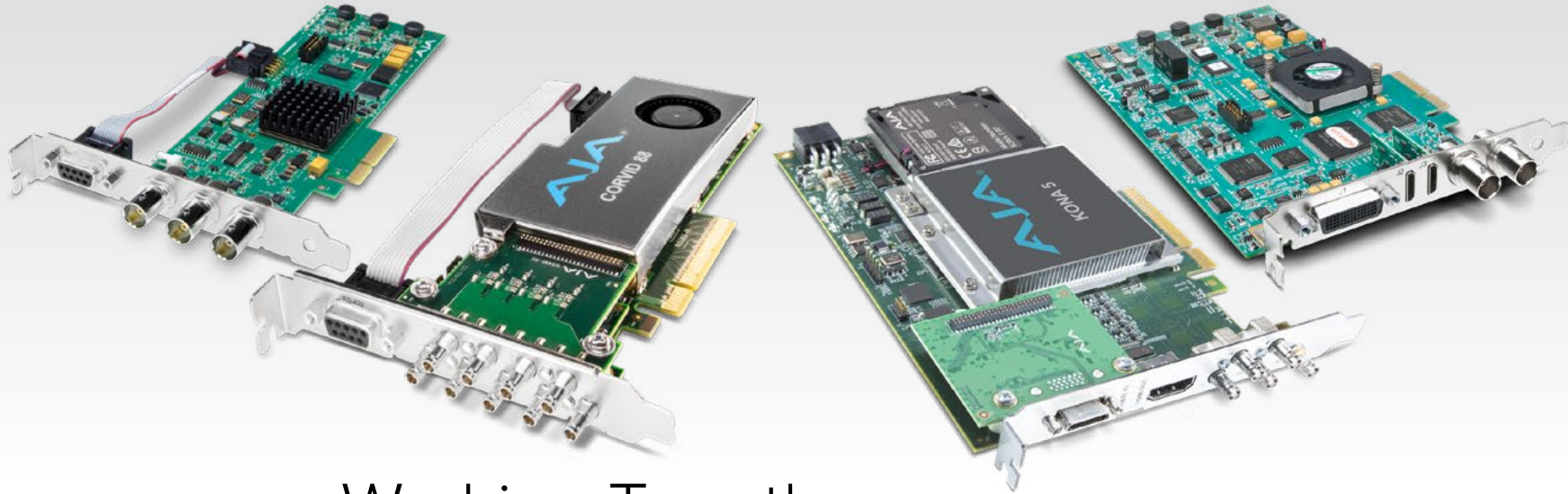


Developer Program

Spring 2019

AJA | Developer Program

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YEAR
WARRANTY



Working Together

AJA's Developer program allows partner companies to incorporate AJA products into their systems. By utilizing existing, proven video I/O devices, partners leverage AJA's expertise to develop and support these technologies, saving money and getting their integrated products to market more quickly.

AJA technology is at the core of many great products. Superior quality and a straightforward development kit makes AJA's Developer products easy to integrate into any Windows, macOS or Linux environment.

AJA has a long history of building high quality, reliable video devices for the video industry. The AJA Developer Program provides you with access to that pedigree for integration into your own products.

Many of AJA's retail products are available for developer use. Whether you need to incorporate conversion technology into a prebuilt package using one of our full range of Mini-Converters, or integrate a KONA video I/O card into a custom setup, you have access to all the power and quality of AJA.

For more specific applications, the Corvid family of products uses the same technology as the retail cards but provides alternate form factors that allow you to further customize your configuration.

From single channel I/O to multiple simultaneous I/O streams, broadcast IP, multichannel HDMI capture, optical fiber, or 12G-SDI I/O, there's a Developer product to fit every need.

AJA's comprehensive SDK and development tools will help you integrate into any environment with support for Windows®, macOS® and Linux®. As a developer partner, you will have direct access to AJA's technical support team, which is known throughout the industry for fast and effective response.



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Corvid 88 \$2,795

High Density Multi-Stream,
Multi-Format PCIe 2.0 I/O Card.

- Up to eight independent channels* 3G-SDI I/O
- All 4K/UltraHD/2K/HD/SD video formats
- 3G-SDI input/output for High Frame Rate (HFR) support
- 8 or 10-bit YCbCr and 12-bit RGB frame buffer formats
- 4x independent Mixer/Keyer widgets.
- 8x independent 16-ch 48 kHz SDI embedded audio I/O engines
- 8-lane PCIe 2.0
- Analog Color Black or HD Tri-Level Sync

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Other models available: Corvid 88 Fanless, Corvid 88 Low Profile and Corvid 88 Fanless Low Profile



Corvid 44 12G

Compact 12G-SDI Power

- 12G-SDI I/O for 8K, UltraHD2, 4K, UltraHD, 2K, HD and SD with HFR support up to 8K 60p at YUV 10-bit 4:2:2 and support for RGB 12-bit 4:4:4 up to 8K 30p
- 4x bidirectional 12G-SDI ports and 1x Reference In
- Choose either robust HD-BNC connectors, with HD-BNC to full-sized BNC cables included, or a full-size BNC model of the card
- 16-channel embedded SDI audio
- 10-bit downstream keyer in hardware, supporting up to 4K resolution
- Multi-channel 4K I/O to enable the heavy lifting required by facility-level 4K technology
- RS-422 serial control via PCIe bracket, or header on card
- Active or passive heatsink

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Other models available: Corvid 44 12G Fanless, Corvid 44 12G Low Profile and Corvid 44-12G BNC



Corvid 44 \$1,895

Flexible Multi-Format I/O

- Up to four independent bidirectional channels*
- 3G-SDI input/output for High Frame Rate (HFR) support
- All 4K/UltraHD/2K/HD/SD video formats
- 8 or 10-bit YCbCr and 12-bit RGB frame buffer formats
- 2x independent Mixer/Keyer widgets
- 4x independent 16-ch 48 kHz SDI embedded audio I/O engines
- Switchable LTC/Reference input connection
- Analog Color Black or HD Tri-level Sync
- 8-lane PCIe 2.0 interface
- Full height and half height models
- RS-422 on internal header or bracket (on full height model)
- LTC input on internal header

Other models available: Corvid 44 Fanless, Corvid 44 Low Profile and Corvid 44 Fanless Low Profile



Corvid 44 BNC \$1,895

Flexible Multi-format I/O

- 4x 3G-SDI full-size BNC connectors
- Up to four independent bidirectional channels*
- 3G-SDI input/output for High Frame Rate (HFR) support
- All 4K/UltraHD/2K/HD/SD video formats
- 8 or 10-bit YCbCr and 12-bit RGB frame buffer formats
- 2x independent Mixer/Keyer widgets.
- 4x independent 16-ch 48 kHz SDI embedded audio I/O engines
- Switchable LTC/Reference input connection
- Analog Color Black or HD Tri-level Sync
- 8-lane PCIe 2.0 interface
- RS-422 on internal header
- LTC input on internal header

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*Output channels must use the same master clock (e.g. 29.97 & 59.94).

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Corvid 24 \$1,895

8 or 10-bit with a Single 4K or
4 Channels I/O Digital 3G-SDI I/O

- Failover bypass relays with Watchdog timers (2-in/2-out mode only)
- 4-lane PCIe 2.0 card
- 4x independent channels* 3G-SDI I/O
- All 4K/UltraHD/2K/HD/SD video formats
- 3G-SDI Input/Output for 1080p50/60 and Video/Key (Dual Link not supported)
- 8 or 10-bit YCbCr and RGB frame buffer formats
- 2x Mixer/Keyer widgets. This allows output of two simultaneous video/key pairs over 3G-SDI. It also allows for up to two simultaneous downstream keyers.
- 4x independent 16-ch 48 kHz SDI embedded audio I/O engines
- Analog Color Black or HD Tri-level Sync



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Corvid 22 \$1395

8 or 10-bit Uncompressed
w/2 Channels I/O Digital 3G-SDI I/O

- 4-lane PCIe 1.0 Card
- 2-channels 3G-SDI Input, 2-channels 3G-SDI Output
- All 2K/HD/SD Video Formats
- 3G-SDI Input/Output for 1080p50/60 and Video/Key (Dual Link not supported)
- 8 or 10-bit YCbCr and RGB frame buffer formats
- 2x Mixer/Keyer widgets. This allows output of two simultaneous video/key pairs over 3G-SDI. It also allows for up to two simultaneous downstream keyers.
- 2x Independent 16-ch 48 kHz SDI embedded audio I/O engines
- Analog Color Black or HD Tri-level Sync



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Corvid HEVC \$4,995

4K and Multi-Channel HEVC Encoding

- Real time 4K/UltraHD/HD/SD HEVC hardware based encoding
- 8-lane PCIe 2.0 full height card
- Low power consumption
- Supports HEVC Main and Main10 profiles
- Supports 4:2:0 and 4:2:2 at 8- or 10-bits
- Supports bit rates for streaming and contribution quality
- Supported HEVC streams:
 - Single 4K/UltraHD stream up to 60 fps
 - As many as 4 streams at 1080p HD up to 60 fps
- 4x 3G-SDI inputs
- 1x LTC input
- 16-Channel embedded audio support per stream
- ANC data support
- Supports file to file encoding
- Built on AJA's powerful cross-platform NTV2 SDK for Windows and Linux



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Corvid HB-R \$995

4-lane PCIe 2.0 Card for HDBaseT Integration
of 4K/UltraHD/2K/HD/SD Video, Audio, Power,
and RS-232 Control

- HDBaseT receiver
- Video, audio, RS-232, and power over a single Cat 5e/6 cable
- Supports up to 4K/60p 8-bit 4:2:0 video
- 8-channel HDMI embedded audio I/O
- HDMI 1.4b full time looped output
- Supports 2-ch discrete mic audio when used with RovoCam
- Bidirectional VISCA/RS-232 control over HDBaseT
- Up to 18W power and video with a single cable over HDBaseT
- 4-lane PCIe 2.0
- Supports Linux V4L2 drivers

**Output channels must use the same master clock (e.g. 29.97 & 59.94).*

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KONA 5 \$2,995

Ultimate performance

- 12G-SDI with 10-bit 4K/UltraHD/2K/HD/SD up to 50/60 fps
- Supports 8K ingest or output
- 12-bit color support (supported by some software vendors)
- Supports 4:4:4 and 4:2:2 workflows
- Real time up, down, cross-conversion
- macOS, Windows and Linux support via AJA's Developer SDK
- HDMI 2.0 (4K/UltraHD 50/60p, 10-bit, 4:2:2)
- HLG Support - in accordance with HDMI 2.0b/CTA-861-G
- HDR10+ Support - HDR Infoframe metadata, in accordance with HDMI 2.0a/CTA-861.3
- Dolby Vision support for Dolby Vision licensed applications
- 8-ch AES/EBU, 8-ch embedded HDMI, and 16-ch embedded SDI digital audio I/O
- Reference in connector on the card
- Expand connectivity with KONA 5 breakout cable

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Connectivity on KONA 5 Breakout Cable



KONA 4 \$1,995

Powerful HFR Capabilities up to 4K 50/60p

- 3G-SDI with 10-bit 4K/UltraHD/2K/HD/SD up to 50/60 fps
- Real time up, down, cross-conversion
- 12-bit color support (supported by some software vendors)
- Supports 444 and 422 workflows
- macOS, Windows and Linux support via AJA's Developer SDK
- HDMI 1.4b (UltraHD 50/60p 8-bit 4:2:0)
- HDR10+ support (open standard with dynamic tone mapping)
- HLG Support - in accordance with HDMI 2.0b/CTA-861-G
- HDR10 Support - HDR Infoframe metadata, in accordance with HDMI 2.0a/CTA-861.3
- Dolby Vision support for Dolby Vision licensed applications
- 8-ch AES/EBU, 8-ch embedded HDMI, and 16-ch embedded SDI digital audio I/O
- Extend external connectivity with K3G-BOX breakout box

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KONA IP \$2,495

Multi-Channel 10 GigE I/O for IP Video/Audio

- 4K/UltraHD Input or Output, and 2K/HD/SD I/O, 10-bit up to 50/60p
- SMPTE ST 2110 up to 4K/UltraHD, ST 2022-6 up to 2K/HD and ST 2022-7 support up to 2K/HD
- HDMI 1.4b output for local monitoring with 8-ch audio
- HDR10+ support (open standard with dynamic tone mapping)
- HLG Support - in accordance with HDMI 2.0b/CTA-861-G
- HDR10 Support - HDR Infoframe metadata along HDMI
- Dolby Vision support for Dolby Vision licensed applications
- 16-ch 48kHz 16 and 24-bit embedded audio
- Mac, Windows and Linux support via AJA's Developer SDK
- 8-lane PCIe 2.0 video and audio desktop I/O card
- Supports 4:4:4 and 4:2:2 workflows
- Reference/LTC Input

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KONA HDMI \$895

HDMI Capture for Multi-Channel HD or Dual Channel UltraHD

- Simultaneously ingest or switch:
 - up to 2x 4K/UltraHD 60p streams
 - up to 4x 2K/HD 60p streams
 - 1x 4K/UltraHD p60 stream plus up to 2x 2K/HD 60p streams
- Ingest 4K/UltraHD 60p sources on Port 1 and / or Port 2
- Ingest 2K/HD 60p on any source Port 1 through 4
- 8-lane PCIe 2.0
- Embedded HDMI audio in: Up to 8 per channel (for a total of 32 possible audio channels)
- Capture stunning HDR from games and more
- Video4Linux (V4L2) and DirectShow support

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KONA LHi \$1,495

Multi-Format Analog and Digital I/O

- Supports 2K and HD ingest and output at frame rates up to 50/60 fps
- Real time up, down and cross-conversion for HD and SD with pristine 10-bit quality
- 3G-SDI with 2K/HD/SD, 8 or 10-bits I/O
- HDMI 1.3 (30 bits/pixel, RGB or YUV) I/O
- Analog composite or S-video or SD/HD component video I/O
- 2-ch AES/EBU, 8-ch embedded HDMI, and 8-ch embedded SDI digital audio I/O
- Supports 444 and 422 workflows
- Extend external connectivity with KLHI-BOX breakout box option



*Optional Breakout Box:
Utilize the KLHI-BOX Breakout Box
to easily integrate KONA LHi
into rackmount environments.*



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KONA LHe Plus \$995

HD/SD Analog and Digital Capture and Output

- Supports HD-SDI and SD-SDI ingest and output at frame rates up to 50/60 fps
- Real time down-conversion with pristine 10-bit quality
- SD/HD, 422, 8 or 10-bits I/O
- Analog composite or S-video or SD/HD component video I/O
- 2-ch AES/EBU, 8-ch embedded SDI digital, 2-ch analog audio I/O
- Extend external connectivity with KL-BOX-LH breakout box option



*Optional Breakout Box:
Utilize the KL-BOX-LH Breakout Box
to easily integrate KONA LHe Plus into
rackmount environments.*



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KONA 1 \$595

Powerful and Cost Effective 3G-SDI I/O

- 3G-SDI and 1.5G-SDI formats supported
- PCIe 2.0 form factor
- Embedded SDI audio I/O 16-Ch.
- Color Space Conversion
- Genlock with reference input
- LTC input
- ANC capture and processing
- Retail and SDK support (Including AJA Control Panel Audio Mixer)
- RS-422 (for SDK developers there is also an option for low profile PCIe without external RS422 header)

*Other models available:
KONA 1 Low Profile*

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Io IP \$2,495

Video and Audio I/O over IP for Thunderbolt™ 3

- 4K/UltraHD Input or Output, and 2K/HD/SD I/O, 10-bit up to 50/60p
- SMPTE ST 2110 up to 4K/UltraHD, ST 2022-6 up to 2K/HD and ST 2022-7 support up to 2K/HD
- Two Thunderbolt 3 ports with loop through
- 2x 10 GigE SFP connections for multi-channel I/O
- 4:2:2, 4:4:4 and High Frame Rate workflow support
- HDMI 2.0 output for local monitoring with 8-Channel audio
- 16-channel 48 kHz 16 and 24-bit embedded audio on SDI
- HLG Support - in accordance with HDMI 2.0b/CTA-861-G
- HDR10+ Support - HDR Infoframe metadata, in accordance with HDMI 2.0a/CTA-861.3
- Dolby Vision support for Dolby Vision licensed applications
- Reference/LTC Input
- DB-25 analog audio I/O connector (Tascam DA-88 pinout) cable not included.
- XLR 12V power for battery or AC use
- Headphone jack and level control for mobile environments



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Io 4K Plus \$2,495

Thunderbolt 3 Performance from 4K to SD

- 4K/UltraHD/2K/HD/SD 10-bit I/O up to 50/60p
- 4x bidirectional 12G-SDI with 16-channel embedded audio
- 4K/UltraHD HDMI v2.0 I/O with 8-channel embedded audio
- Two Thunderbolt 3 ports with loop through
- 4:2:2, 4:4:4 and High Frame Rate workflow support
- HLG Support - in accordance with HDMI 2.0b/CTA-861-G
- HDR10+ Support - HDR Infoframe metadata, in accordance with HDMI 2.0a/CTA-861.3
- Dolby Vision support for Dolby Vision licensed applications
- DB-25 analog audio I/O connector (Tascam DA-88 pinout) cable not included.
- Analog Audio flexibility with a choice of 8-channel In or 8-channel Out or 4-channel In and 4-channel out
- XLR 12V power for battery or AC use
- RS-422 VTR control, Reference, LTC Input
- Headphone jack and level control for mobile environments



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Io 4K \$1,995

Harness Thunderbolt 2 Power in 4K, HD and SD

- 4K/UltraHD/2K/HD/SD 10-bit I/O up to 50/60p
- 4x bidirectional 3G-SDI with 16-channel embedded audio
- 4K/UltraHD HDMI v 1.4b I/O with 8-channel embedded audio
- Two Thunderbolt 2 ports with loop through
- 4:2:2, 4:4:4 and High Frame Rate workflow support
- HDR10+ support (open standard with dynamic tone mapping)
- HLG Support - in accordance with HDMI 2.0b/CTA-861-G
- HDR10 Support - HDR Infoframe metadata, in accordance with HDMI 2.0a/CTA-861.3
- Dolby Vision support for Dolby Vision licensed applications
- DB-25 analog audio output connector (Tascam DA-88 pinout) not included.
- XLR 12V power for battery or AC use
- RS-422 VTR control, Reference, LTC Input
- Headphone jack and level control for mobile environments



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Io XT \$1,495

Thunderbolt Power for Professional I/O

- 2x 3G-SDI inputs
- 2x 3G-SDI outputs
- Simultaneous SDI and HDMI outputs
- Component analog video output
- 10-bit high quality 4:2:2, 4:4:4 workflow support
- Two Thunderbolt ports with loop-through
- 16-channel embedded audio on SDI
- 8-channel embedded audio on HDMI
- DB-25 analog audio output connector (Tascam DA-88 pinout) not included.
- XLR 12V power for battery or AC use
- RS-422 VTR control, Reference, LTC Input
- Headphone jack and level control for mobile environments

Three Year Warranty

AJA Video warrants that Developer 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 postproduction markets.

AJA products are designed and manufactured at our facilities in Grass Valley, California, and sold through an extensive sales channel of resellers and systems integrators around the world. For further information, please see our website at www.aja.com

AJA Video Systems, Inc.

Grass Valley, California

www.aja.com • sales@aja.com • support@aja.com

