

KONA

Solid performance and powerful features.
Unparalleled reliability. Built for video professionals by video professionals.

KONA Connects.

KONA capture, display and mastering solutions for SD, HD, 3G, Dual Link HD, 2K and 4K on a Mac or PC, provide the engine for your post-production process.

The working professional—whether non-linear editor, compositor, motion graphics or 3D artist—needs to connect their software with a range of hardware.

KONA cards installed in your Mac or PC bring the world to you and your creativity to the world.

Ingest from Analog or Digital sources, such as Decks and Cameras.

Display your work in action on Broadcast Monitors, Plasmas and Projectors—all the way to 4K.

Monitor your multi-track audio through your Mixers and Speakers

Master your project in HD and SD simultaneously to Digital or Analog devices.

It's in the hardware.

Master all formats with KON

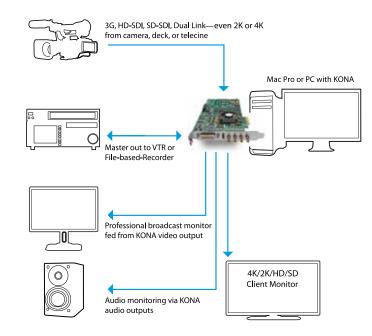
In a world of myriad HD standards, SD, 2K and 4K, and even 3D stereoscopic workflows, KONA cards offer maximum connectivity like 3G/HD/SD SDI, Component, and HDMI—along with the flexibility of superior conversion capability.

Unburden your CPU.

Within supported applications, KONA's Hardware Scalar Acceleration takes a portion of codec processing load off the CPU, allowing your computer to concentrate on what you care about, more Realtime effects.

No more rendering for vaster resizing. KONA's superior "always-on" 10-bit hardware-based Up/Cross/ Down conversion offers you the ability to ingest to the standard of your project while displaying and mastering live simultaneously to HD and SD as your needs require.

INGEST, EDIT, MONITOR and MASTER



Connect your digital sources via SD/HD-SDI or HDMI to KONA 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.



The KONA Family

KONA capture cards are available in three distinct models to meet your workflow needs. AJA's reputation for Quality, Reliability and Support is evident in each and every KONA, with advanced features built in for your specific needs—and no shortcuts taken.





KONA features	KONA 3G	KONA LHI	KONA LHe Plus
SD (NTSC and PAL)	yes	yes	yes
HD (720p, 1080i, 1080sf)	yes	yes	yes
2K (2048 x 1556, 2048 x 1080) Dual-Link HD, 2K HSDL, 4:4:4 RGB	yes	2K x 1080 video at 4:2:2, non-RGB	-
4K (YCbCr and RGB colorspaces—rasters listed later under specifications)	yes (capture and playout)		-
3G SDI	yes	yes	•
HDMI	HDMI 1.4a output	HDMI 1.3a input/output	-
HD to SD Down-conversion (10-bit, in hardware)	yes	yes	yes
SD to HD Up-conversion (10-bit in hardware)	yes	yes	-
HD to HD Cross-conversion (1080 to/from 720, 10-bit, in hardware)	yes	yes	-
12-bit Analog Video (component, composite, and Y/C)	output SD/HD	input/output SD/HD	input/output SD/HD
10-bit SDI Digital Video (BNC)	input/output SD/HD/3G	input/output SD/HD/3G	input/output SD/HD
HD Video+Key	yes	yes	-
Analog Audio (balanced XLR)		input/output 2-channel	input/output 2-channel
AES Digital Audio	8-ch I/O w/cable, 16-ch I/O w/K3G-Box	input/output 2-channel	input/output 2-channel
Embedded SDI Audio (via ENC)	input/output 16-channel	input/output 8-channel	input/output 8-channel
Professional Genlock	yes	yes	yes
LTC Input/Output	yes	LTC input (shared with reference BNC)	-
RS-422 Machine Control	yes	yes	yes
1RÚ Breakout Box (optional)	yes	yes	yes
3-year AJA Warranty with Advanced Exchange	yes, included	yes, included	yes, included

KONA for Mac Software

AJA KONA for Mac drivers are optimized for use on OS X, with applications and advanced AJA hardware capabilities controlled easily at-a-glance in the application you're using. KONA for Mac software integrates within the native environment where used—whether Avid Media Composer, Apple Final Cut Pro, Adobe Creative Suite, Autodesk Smoke for Mac, or a wide array of other Mac applications.

Within Avid® Media Composer® 6.0, Symphony® 6.0, and NewsCutter® 10.0.

- Advanced AJA Open I/O Plug-ins supports control of KONA capture, monitoring and output, accessible from within Avid software
- Reliable, broadcast-quality dependable AJA KONA drivers that support the Avid 6.0 product family
- Support for Avid codecs and capabilities







Within Apple Final Cut Pro X, KONA offers:

• The new Final Cut Pro X is supported by KONA models with AJA KONA X Beta drivers. Stay tuned to www.aja.com for evolving support for this important new platform.



Within Adobe Creative Suite

- Advanced AJA Plug-ins support offering control of KONA using familiar controls and appearance within Adobe CS applications including Adobe Premiere Pro, Photoshop, and After Effects.
- Photoshop broadcast video output to broadcast monitors.
- Realtime RAM preview monitoring from within After Effects.
- Save software rendering time with hardware-based KONA Up/Cross/Down Conversion.
- Native capture support for file per frame formats such as DPX, Cineon, TIFF, TGA and BMP.

Within Autodesk Smoke® for Mac

Autodesk® Smoke® for Mac OS® X software supports the AJA KONA 3G for capture, display, and output, from SD to 2K in stereoscopic 3D or mono projects.

All Mac Applications benefit

The KONA Desktop feature allows broadcast design elements to be viewed with the proper aspect ratio and color depth on a broadcast monitor via the KONA card. KONA Desktop is available on the entire range of KONA cards, supporting Adobe After Effects, Photoshop, Apple Motion, Autodesk Smoke for Mac and more.

Powerful AJA utilities, Easy Setups, and plug-ins round out the Mac environment providing support for all popular Mac application workflows.













KONA for PC Software



KONA for PC software allows Windows to access the hardware power of your KONA within major editing and graphics applications. Other software vendors have also provided integrated support for KONA in their own PC applications through direct collaboration with AJA.

Choose the right KONA card to playback HD/SD or SD-only video and audio data from disk—even 2K—in any format you choose, including DPX, Cineon, TGA, TIFF, BMP, AVI and QuickTime. You can playback and master material, at a variety of frame rates, on a high-resolution wide-screen monitor or digital projector. Custom AJA software allows full control over your playback parameters are clearly laid out, including provisions for choosing a user-specified LUT.

Supplied AJA plug-ins integrate your KONA card into a variety of graphics/visual-effects software applications to make operations even easier to use. Using AJA plug-ins, sophisticated features appear as if they were native to the software application user interfaces. Directly supported applications include:

- Avid® Media Composer, Symphony and NewsCutter
- Adobe Premiere® Pro
- Adobe After Effects®
- Adobe Photoshop®
- Sony Vegas
- Eyeon Fusion®







This huge feature set makes KONA an invaluable tool for film and video professionals, for virtually any PC workflow.

AJA Control Room for Mac and PC

KONA software for Mac and PC includes a stand-alone powerful capture, conversion, playback, and output application—AJA Control Room™—that includes full VTR machine control with access to any and all KONA supported file formats and video standards, presented in a very cool and easy-to-use interface. Files captured from AJA Control Room can be imported into virtually any software package that supports these file formats, such as compositing programs, 3D animation programs, audio editing programs and much more. Exported files from your applications can be seamlessly played out to the video and audio equipment of your choice. A separate Control Panel supplies powerful at-a-glance configuration and control.

AJA Control Room has great desktop preview features allowing you to preview your files full screen on your desktop display, creating an alternative for frame by frame viewing when no additional monitor is available. When you're ready and you want to lay off to tape, an Output mode allows you to edit to tape using a wide variety of VTRs.



AJA Control Room™ for Capture, Preview, and Output to Tape (Mac and PC)

It's in the software

AJA uniquely offers not only the driver software support, optimized platform compatibility and plug-ins you expect for leading editing and graphics applications on a Mac or PC—but also a range of additional standalone software applications that extend your power and capability.

In addition to AJA Control Room, already discussed, the following utilities and applications are also provided:



AJA DataCalc (DataRate Calculator)

Calculate your storage needs before digitizing even begins and keep your team on track



AJA System Test

Tune your system to the same high standards that developers do for the best performance.



AJA QTToDPXTranslator and AJA DPXToQTTranslator



Take a 2K or HD 10-bit RGB QuickTime movie captured with your KONA 3G and translate it to file-per-frame DPX or accomplish the opposite. Work in realtime with DPX source files within Final Cut Studio. Only AJA makes it possible

It's the Compatibility

Visual artists have a range of software applications and platforms they prefer and need to work with. No other manufacturer can match the breadth of application support and needs of the working professional. Pick your application of choice and KONA connects it to your world.

Cross-Platform Power

When looking for a cross-platform hardware solution, KONA is an excellent fit. KONA can be used interchangeably in either Mac OSX or Windows; with the new AJA Control Room software, KONA will even run on Linux. KONA allows users the freedom to use applications on different platforms, or collaborate with users on apposite platforms and pass assets between each other without having to render each time. KONA supports QuickTime ingest and playback on both OSX and Windows, allowing seamless and elegant file interchange between operating systems.

Software Compatibility

	KONA 3G	KONA LHi	KONA LHe Plus
Apple Final Cut Pro 7*	Mac	Mac	Mac
Apple Color	Mac	Mac	Мас
Apple Motion	Mac	Mac	Мас
Apple Soundtrack	Mac	Mac	Mac
Apple Logic	Mac	Mac	Мас
Ádobe Premiere Pro	Mac/PC	Mac/PC	Mac/PC
Adobe After Effects	Mac/PC	Mac/PC	Mac/PC
Adobe Photoshop	Mac/PC	Mac/PC	Mac/PC
Avid Media Composer 6	Mac/PC	Mac/PC	Mac/PC
Avid Symphony 6	Mac/PC	Mac/PC	Mac/PC
Avid NewsCutter 10	Mac/PC	Mac/PC	Mac/PC
MacCaption/Caption Maker	Mac/PC	Mac/PC	Mac/PC
AJA Control Room	Mac/PC	Mac/PC	Mac/PC
AJA Data Rate Calculator	Mac/PC	Mac/PC	Mac/PC
AJA System Test	Mac/PC	Mac/PC	Mac/PC
Autodesk Smoke On Mac	Mac		
Autodesk Combustion	PC	PC	PC
Drastic Media NXS	PC	PC	PC
Sony Vegas	PC	PC	PC
Eyeon Fusion 64 bit	PC	PC	PC
CineForm Neo HD	Mac/PC	Mac/PC	Mac/PC
CineForm Neo 3D	Mac/PC	Mac/PC	
CineForm Neo 4K	Mac/PC	Mac/PC	
The Foundry Nuke	Mac/PC	Mac/PC	Mac/PC
Media 100	Mac	Mac	Mac
Softron	Mac	Mac	Mac
Gallery	Mac	Mac	Mac
Building4Media	Mac	Mac	Mac
Bug.tv	Mac	Mac	Mac
ToolsOnAir	Mac	Mac	Mac

^{*} At the time of publishing, Final Cut Pro X is supported by KONA beta drivers





KONA 3G has the unparalleled features top of the line video professionals expect from AJA Desktop solutions.

KONA 3G features 10-bit Uncompressed video I/O, up to 4K capture and output, the newest HDMI 1.4a support for 3D workflows, 16-channel SDI embedded audio I/O, and up to 16-channel AES digital audio I/O (8 with breakout cable or 16 with optional K3G-Box). Add to that realtime hardware-based up/down/cross conversion for efficiently working with a wide variety of SD and HD, 3G, dual-link HD, 2K and 4K formats, a hardware downstream keyer for compositing graphics without rendering, and so much more.

Broadcast-quality conversions

KONA 3G features full 10-bit, broadcast-quality, motion-adaptive SD to HD up-conversion, HD to HD cross-conversion, HD to SD down-conversion, and automatic HD/SD 12-bit component analog output. Since all conversion functionality on the KONA 3G is hardware-based, it's available all the time on ingest or playback.

Uniquely, the KONA 3G can cross-convert 720p 23.98 to 1080PsF 23.98. Cross-conversion is particularly valuable in today's multiformat HD post environment where producing pristine 720p or 1080i signals at-will helps streamline dailies and deliverables.

Internal SD/HD hardware downstream keyer

The AJA KONA 3G features a powerful hardware downstream keyer that can place graphic files with an alpha channel over the video being input to the board—or a selectable color matte, or the contents of the card's framebuffer. The downstream keyer can also key a QuickTime video clip that has an alpha channel by playing it in realtime, over live video coming into the card.

Connectivity

For SDI video, the card features two 3G/HD/SD-SDI inputs and two outputs—or for 4K all four SDI connectors can be used for capture and output—HDMI 1.4a monitoring output, LTC input and output, one connection for Genlock input, and configurable 3x BNC HD/SD analog video output.

Also included is a 9-pin connector for RS-422 machine control. If you're using a Digital Betacam, DVCPro50, HDCAM, DVCPRO HD, D5, or HDCAM SR VTR—or any other professional device—you'll have the proper connections.

3D Stereoscopic flexibility

KONA 3G offers you the most affordable and simplest path through 3D Stereoscopic workflows. Through SDI, you can output Discrete Left and Right Eye feeds with a simple Stereo button choice in the AJA Control Panel.

In addition, all the muxed feeds for SDI stereo monitoring are accessible through tight integration with 3rd-party application timelines for Side by Side and Top Bottom.

Through HDMI 1.4a, you can utilize more affordable 3D monitors for Side by Side and Top Bottom needs.

Dual link HD support

KONA 3G supports Dual Link 4:4:4 HD-SDI, with full bandwidth 4:4:4 RGB at 10-bits for 1080i, 1080p, 1080PsF and 720p formats. KONA 3G can also convert between 4:4:4 and 4:2:2 formats for single link HD-SDI monitoring and output.

2K and 4K support

Leading the way for quality 4K capture, monitoring and output, KONA 3G offers 4K in both YCbCr and RGB. When 4K mode is selected, the four SDI connectors are remapped as I/O for handling the four quadrants of a 4K picture. A large number of 4K formats are supported for this emerging workflow.

As the most capable 2K card for the Mac, you can ingest from 3G or HSDL (high speed data link) equipped sources and record at full frame rate or record simultaneous 2K DPX files and 2K QuickTime reference movies using the AJA Control Room application. You can also work with existing 2K material, like sequential DPX or Cineon files, by using AJA's DPXToQT Translator application to create QuickTime files for a wide variety of applications. RED Epic and ARRI Alexa workflows are eased by KONA 3G, with true realtime 2K playback and LUT support.

On a PC, KONA 3G can connect to a 2K telecine saving time and steps by directly creating 2K DPX, QuickTime, Cineon, AVI, TGA, TIFF or BMP files. Users can capture directly into the format they need and move files immediately into their editing/compositing environment of choice. These same files can be played out at 2K via 3G or High Speed Data Link (HSDL), offering further synergy with other 2K products already in use in the market.

KONA 3G also allows 2K files to be viewed with a user selected crop function on HD 1080PsF supported video monitors. This functionality helps lower the price barrier for viewing 2K material.

KONA^{3G}

Audio

Tie the KONA 3G to a digital audio mixer or DAW output with 8-channel 24-bit 48kHz or 96kHz AES audio via BNC connections on the supplied breakout cable or get the optional K3G-Box to output an even larger 16-channels of ALS audio.

KONA 3G's high-quality input sample-rate conversion on AES inputs eliminates the need for audio source synchronization.

For multi-channel audio mastering, 16-channel SDI embedded 24-bit 48kHz audio provides the power you need to integrate into any audio environment.

Extend your Connectivity with K3G-Box for KONA 3G

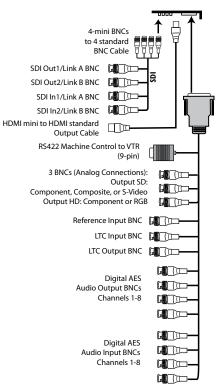
The optional K3G-Box simplifies connectivity in professional post-production environments by offering a 19-inch, 1RU rack-mountable breakout box that attaches to the KONA 3G via an included multi-pin cable and two cables supplied with the KONA 3G. Additional K3G-Box functionality over the standard breakout cable comes in the form of 8 additional AES audio channels, 2-channel RCA analog audio monitoring jacks, and looping BNC Genlock reference connectors.



AES/EBU Audio In AES/EBU Audio In RS422 Channels 1 through 8 Channels 9 through 16 Machine Control **AES/EBU Audio Out** AES/EBU Audio Out SDI Input/Output HDMI Component/ External LTC Analog Audio Channels 1 through 8 Channels 9 through 16 1.4 Composite Reference Input/ Output Video Output (loop) Output All AES/EBU audio connectors have two channels

K3G-Box for KONA 3G (Optional)

KONA 3G breakout cable (supplied)





The KONA LHi bridges the gap between legacy analog devices and the latest 3G SDI and HDMI enabled products providing editing, monitoring and mastering of professional quality video in an affordable, powerful, easy to use product.

Connectivity

If your post-production facility works with a wide variety of formats, frame rates and audio/video sources, the KONA LHi provides the connectivity you need.

Connect everything from an HDMI enabled camera to an HD-SDI VTR to KONA LHI. Connecting to any of your legacy analog video signals is also possible through configurable component, composite, or s-video. Via an Input PassThrough mode, you can even configure the card to act as a converter within your computer.

KONA LHi offers a full host of no-compromise features: 10-bit or 8-bit uncompressed video, 2-channel AES digital audio and 8-channel SDI embedded digital audio, analog composite or s-video or SD/HD component video I/O, 2-channel balanced analog audio I/O, and broadcast-quality hardware-based up/down/cross-conversion for flexible SD and HD post production.

KONA LHi's HDMI 1.3a support allows you to feed a "deep color" monitor with quality 10-bit video, banishing video banding and preserving your gradients and rich color palate.

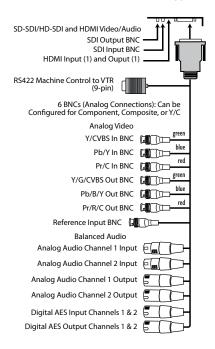
Broadcast-quality conversions

Like the KONA 3G, the KONA LHi features full 10-bit, broadcast-quality, motion-adaptive SD to HD up-conversion, HD to HD crossconversion, HD to SD down-conversion, and automatic HD/SD 12-bit component analog output. Since KONA LHi's conversions are hardware-based, they are available all the time - during ingest or playback. Outputs can be configured independently allowing you to have simultaneous HD and SD output —or two different types of HD: 720 or 1080—output at the same time via cross-conversion.

Extend your Connectivity with KLHi-Box

The optional KLHi-Box provides all the standard features of a cable for 1RU rack mounted I/O convenience and added connectivity in the form of additional BNC digital AES/EBU connectors and RCA audio monitoring jacks.

KONA LHi breakout cable (supplied)

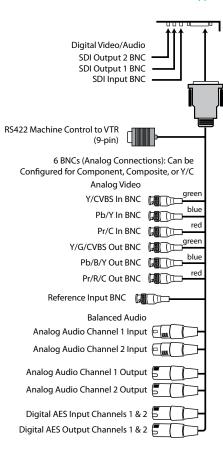




KLHi-BOX for KONA LHi (Optional)



KONA LHe Plus breakout cable (supplied)





Specifications

KONA 3G Specifications Video Inputs Dual-rate (SD or HD) 3G SD and HD-SDI, SMPTE-259/292/296/424, 10-bits Single Link 4:2:2 Dual-link HD 4:4:4 2K HSDL (High Speed Data Link) 4:4:4 4K Mode (4 BNCs remapped for capture or playout) 1D LUT Support (Mac and PC) Video Formats 525i 23.98 (intermediate format only) 525i 29.97 625i 25 720P 23.98 (intermediate format only)* 720p 24 * 720p 25 * 720p 29.97* 720p 30 * 4K Video Formats 720P 50 3840x2160P 24 720P 59 94 3840x2160P 23.98 720P 60 3840x2160P 25 1080i 25 4096x2160P 24 1080i 29 97 4096x2160P 23.98 1080i 30 4096x2160P 25 1080PsF 23.98 1080PsF 24 3840x2160PsF 24 3840x2160PsF 23.98 1080PsF 25 1080PsF 29.97 3840x2160PsF 25 1080PsF 30 4096x2160PsF 24 4096x2160PsF 23.98 1080p 23.98 4096x2160PsF 25 1080P 24 1080P 25 1080P 29.97 1080P 30 1080P 50 1080P 59.94 1080P 60 2048 x 1080P 23.98, 24, 25, 29.97, 30, 50 and 2048 x 1080PsF 23.98 2048 x 1080PsF 24 2048 x 1556p 15 2048 x 1556PsF 14.98 2048 x 1556PsF 15 2048 x 1556psf 23.98 2048 x 1556PsF 24 Video Output Digital: 3G SD and H Dual-link HD 4:4:4 a 4K playout via HDMI v1.4, 30/36

Analog:

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Downstream Keyer:
Will output graphics with alpha channel over video, matte
or framebuffer, or framebuffer content over incoming
video or matte
Audio
24-bit SDI embedded audio.
  16 channel, 48kHz
24-bit AES audio, 8 channel w/breakout cable
  channel with optional K3G-Box, 96kHz or 48l
  24- or 16-bit capable
Up-Conversion
Hardware 10-bit
Anamorphic: full-screen
Pillar box 4:3: results in a 4:3 image
  with black sidebars
Zoom 14:9: results in a 4:3 image zoomed slightly to fill a
  14:9 image with blac
Zoom Letterbox: resu
Zoom Wide:
  horizontal
Down-Conversion
Anamorphic: fl
Letterbox: imag
Crop: image i
Cross-Conversion
SD to SD Aspect Ratio Conversion
Letterbox: This transforms SD anamorphic material to a
                uce a horizontally stretched effect on the
                   s anamorphic SD to full frame
                 produce an image in the center of the
              black borders on the left and right sides
           namorphized image in the center
V Crop: Will transform SD letterbox material to an
      morphic image.
Reference Input
Analog Color Black (1V) or Composite Sync (2 or 4V)
 Non terminating, Looping, 75 ohm on K3G-Box,
  terminated on supplied breakout cable
Input and Output, 2 BNCs
Machine Control
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Analog: Composite/S-Video (Y/C): sampling ponent: 12-bit A/D, 2x oversampling HD Component: D LUT Support (PC) Video Formats 23.98* 20p 24* 720p 25 * 720p 29.97 * 720p 30 * 720p 50 720p 59.94 720p 60 1080i 25 1080i 29.97 1080PsF 23.98 1080PsF 24 1080PsF 25 1080PsF 29.97 1080PsF 30 1080P 23.98 1080P 24 1080P 25 1080P 29.97 1080P 30 1080P 50 1080P 59.94 1080P 60 Video Output Digital: 3G SD and HD-SDI, SMPTE-259/292/296/424 HDMI v1.3, 30/36 bits/pixel, RGB or YUV, 2,25Gbps, SD. HD, 1080p50/60 Analog:

12-bit D/A, 2x oversampling Audio Digital: 24-bit SDI embedded audio. 8 channel, 48kHz 24-bit AES audio, 2 channel, 48kHz 16-bit capable Analog: 24-bit A/D and D/A, 2 channel balanced XLR, 48kHz +24dbu Full Scale Digital +/- 0.2db 20 to 20kHz frequency response Un-Conversion Hardware 10-bit Anamorphic: full-screen Pillar box 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 Zoom Letterbox: results in image zoomed to fill full 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: full-screen 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.

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

terminating, Looping, 75 ohm on KLHi-Box, terminated

on supplied breakout cable, BNC assignable as LTC input

Reference Input

or Reference Input

Machine Control

RS-422, Sony 9-pin protocol

HD Component:

Video Input SD and HD-SDI, SMPTE-259/292/296, 10-bits Analog: Composite/S-Video (Y/C): NTSC, NTSCJ, PAL 12-bit A/D, 2x oversampling 3 line adaptive comb filter decoding SD Component: SMPTE/EBU N10, Betacam 525 line, Betacam 525J, RGB 12-bit A/D 2x oversampling HD Component: 12-bit A/D Video Formats Video Output Digital: 625i 25 SD-SDI, SMPTE, 259M, 10-bits, BNC 720p 23.98 * HD-SDI SMPTE, 292/296, 10-bits, BNC 720p 24* Analog: 720p 25 * Composite/S-Video (Y/C): 720p 29.97 * NTSC, NTSCJ, PAL 720p 30 *720p 50 12-bit D/A, 8x oversampling 720p 59.94 SD Component: 720p 60 SMPTE/EBU N10, Betacam 525 line, 1080i 25 Betacam 525J, RGB 1080i 29.97 12-bit D/A, 8x oversampling 1080i 30 1080PsF 23.98 HD Component: YPbPr, RGB 1080PsF 24 1080p 24 12-bit D/A, 2x oversampling 1080p 25 1080p 29.97 1080p 30 Audio Digital: 24-bit SDI embedded audio, 8 channel, 48kHz 24-bit AES audio, 2 channel, 48kHz,16-bit capable Analog: 24-bit A/D and D/A, 2 channel balanced XLR, 48kHz +24dbu Full Scale Digital

+/- 0.2db 20 to 20kHz frequency response

Crop: image is cropped to fit new screen size

terminated on supplied breakout cable

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

Non terminating, Looping, 75 ohm on KL-Box-LH,

Letterbox: image is reduced with black top & bottom added to

image area with the aspect ratio preserved top & bottom

Down-Conversion

Reference Input

Machine Control

RS-422, Sony 9-pin protocol

Hardware 10-bit output

Anamorphic: full-screen

KONA LHe Plus Specifications

RS-422, Sony 9-pin protocol

www.aja.com

Composite/S-Video (Y/C):

12-bit D/A, 8x oversampling

12-bit D/A, 8x oversampling

SMPTE/EBU N10, Betacam 525 line,

NTSC, NTSCJ, PAL

SD Component:

Betacam 525J, RGB

^{*} Note: Formats marked with an asterisk are non "over-the-wire" VFR formats

Incredible 3 Year Warranty

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

About AJA Video Systems, In

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 loand KONA desktop video products, Ki Pro family of recorders, miniature stand-alone 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 worlds. For further information, please see our website at





AJA Video Systems Inc. Grass Valley, California www.aja.com • sales@aja.com • support@aja.com