

# Ki Pro® | ULTRA

4K/UltraHD and 2K/HD  
Recorder and Player



ProRes®

**AJA**  
VIDEO SYSTEMS

Because it matters.®

# Ki Pro<sup>®</sup> | ULTRA



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## 4K/UltraHD and 2K/HD Recorder and Player

Supports the latest technologies and workflows, including up to 4K 60p with 16-Channels of audio.

Ki Pro Ultra is a next generation 4K/UltraHD/2K/HD capable file based video recorder and player with broad support for video formats and frame rates (up to 4K 60p) and flexible input and output connectivity, including 3G-SDI, fiber and HDMI.

Only **\$3,995 US MSRP\***

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Ki Pro Ultra is a 4K/UltraHD/2K/HD file based video recorder and player, supporting the latest connectivity and large raster high framerate workflows, including 4K 60p.

3G-SDI, fiber and HDMI digital video connectivity and a wealth of analog and digital audio connectivity answers any project's demand for efficient, powerful and flexible workflows.

Designed to be either portable or rackmountable with half rack wide 2RU high dimensions, it's well suited for use in studio/truck environments in addition to on-set and even digital signage applications. The Ki Pro Ultra answers the growing demand for 4K and UltraHD capable recorder products with full support for current HD projects.

Ki Pro Ultra enables manageable large raster workflows with the efficiencies of Apple ProRes, supporting a broad range of video formats and frame rates recorded directly to AJA's proven and reliable Pak Media, offering the lowest cost per GB available today.

Next generation pristine UltraHD 60p and 4K 60p recording in Apple ProRes HQ is offered utilizing AJA Pak1000 SSD media, complete with full rollover capabilities from drive to drive. This ensures long recording times for the most demanding projects.

Smooth slow motion playback can be obtained easily with full control via the RS-422 serial connection or through the simple and intuitive on unit menu system and through the Ki Pro Ultra's web interface.

Menus and images are beautifully rendered on a new high resolution LCD display enabling detailed playback and monitoring in all environments.

Ki Pro Ultra, the ultimate next generation digital recorder and player.



## 10-bit, Full Raster Recording

Big on quality - but not on file size.

**ProRes** Ki Pro Ultra records to five quality levels of Apple ProRes including Apple ProRes 4444. This lets you choose the balance of image fidelity and file size that's right for each individual production as well as recording directly to native file formats that are understood by most major editing systems.

Next generation UltraHD 60p and 4K 60p recording is attainable all the way up to Apple ProRes HQ when using AJA Pak1000 SSD media.

By utilizing Apple ProRes, your project will have the best image quality available, with manageable and affordable file sizes.

## Reliable Storage Media

Ki Pro Ultra captures directly to AJA Pak SSD Media. Pak1000 is the perfect companion for Ki Pro Ultra offering 1TB of fast SSD media for up to 4K recording at 60p in ProRes HQ. Ki Pro Ultra also offers compatibility with Pak512 and Pak256 media, ideal for lower frame rate projects.

The twin media slots on the Ki Pro Ultra allow fast media changes and rollover recording; recording starts on one media module and continues onto the second module once the first is full.

Pak Media may also be used with the optional Pak Dock which features USB 3.0 and Thunderbolt™ connectors for lightning fast data transfers.

## Record to External Storage

Pak-Adapt-eSATA (sold separately) is a Pak Media sized adapter with an eSATA connector that allows the user to attach a qualified RAID or single volume storage via an eSATA cable so that it may be used as a recordable drive. eSATA connectivity provides the bandwidth needed for 4K 422 HQ at up to 30fps.

You can even connect two Pak-Adapt-eSATAs to the Ki Pro Ultra for more flexibility in the field. To find out more about using qualified external storage with Ki Pro Ultra and Pak-Adapt-eSATA, please visit our website.

## Familiar Controls and Operation

Anyone familiar with the operation of a tape deck will feel immediately comfortable when working with Ki Pro Ultra. Just like a traditional tape deck, Ki Pro Ultra features straightforward and dedicated transport buttons - record, play, stop, rewind, fast forward - making the device easy to operate with minimal training time. The current status of the system and key configuration information is clearly displayed on the beautiful built-in high resolution LCD screen. Additional operational information can be found in the STATUS menu which can be accessed even when recording or playing back.

The Ki Pro Ultra operating system offers users a logical menu structure that is easy to navigate with menu parameters presented in clear and understandable language.

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## exFAT and HFS+ Support

Ki Pro Ultra allows you to use the file system that suits your needs. Full flexibility is provided to format your recording media as either exFAT or HFS+ within Ki Pro Ultra itself or from your desktop computer.



## 16-Channel Audio Support

Ki Pro Ultra provides full 16-Channel audio support embedded over SDI or Fiber. Flexible routing options mean that 8-Channel only outputs like HDMI, Analog and Digital carry options for selecting the 8-Channel group required. Monitoring via the headphone jack on the front of the unit is split into easy 2-Channel groupings for on-set checks.



## Closed Caption Support

If you need to record or playback video with Closed Captioning embedded, Ki Pro Ultra is fully compatible with your needs.



## RS-422 Control

RS-422 control allows Ki Pro Ultra to integrate easily with supported editing systems and external controllers allowing it to fulfill several of the functions of a traditional VTR. Supported NLEs can even perform assemble edits directly to the Ki Pro Ultra.



## Fiber Connectivity

Ki Pro Ultra's fully integrated fiber inputs and outputs mean that it can be incorporated directly into a dedicated fiber network alongside many other fiber products. Fiber allows outgoing and incoming video signals to be transmitted as far as 10km away.



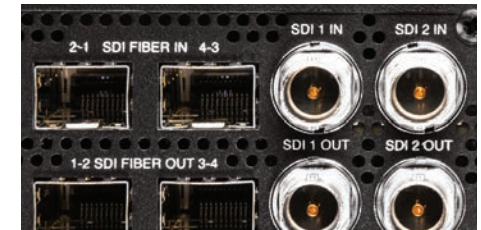
## Professional Connections

The video and audio connections on the rear panel of the Ki Pro Ultra offer next generation connectivity with 3G-SDI, fiber and HDMI inputs and outputs, AES and analog XLR balanced audio, LTC, RS-422 and LAN, plus headphone jack and unbalanced RCA analog audio out.



## 4K and HD Monitoring

Ki Pro Ultra provides full resolution outputs for 4K, UltraHD and HD over 3G-SDI, fiber and HDMI, including the latest affordable UltraHD monitors using HDMI for on-set quality checks. An additional dedicated 2K and HD-SDI monitor output can be fed to any affordable and existing HD-SDI display.



## Two Sample Interleave IO

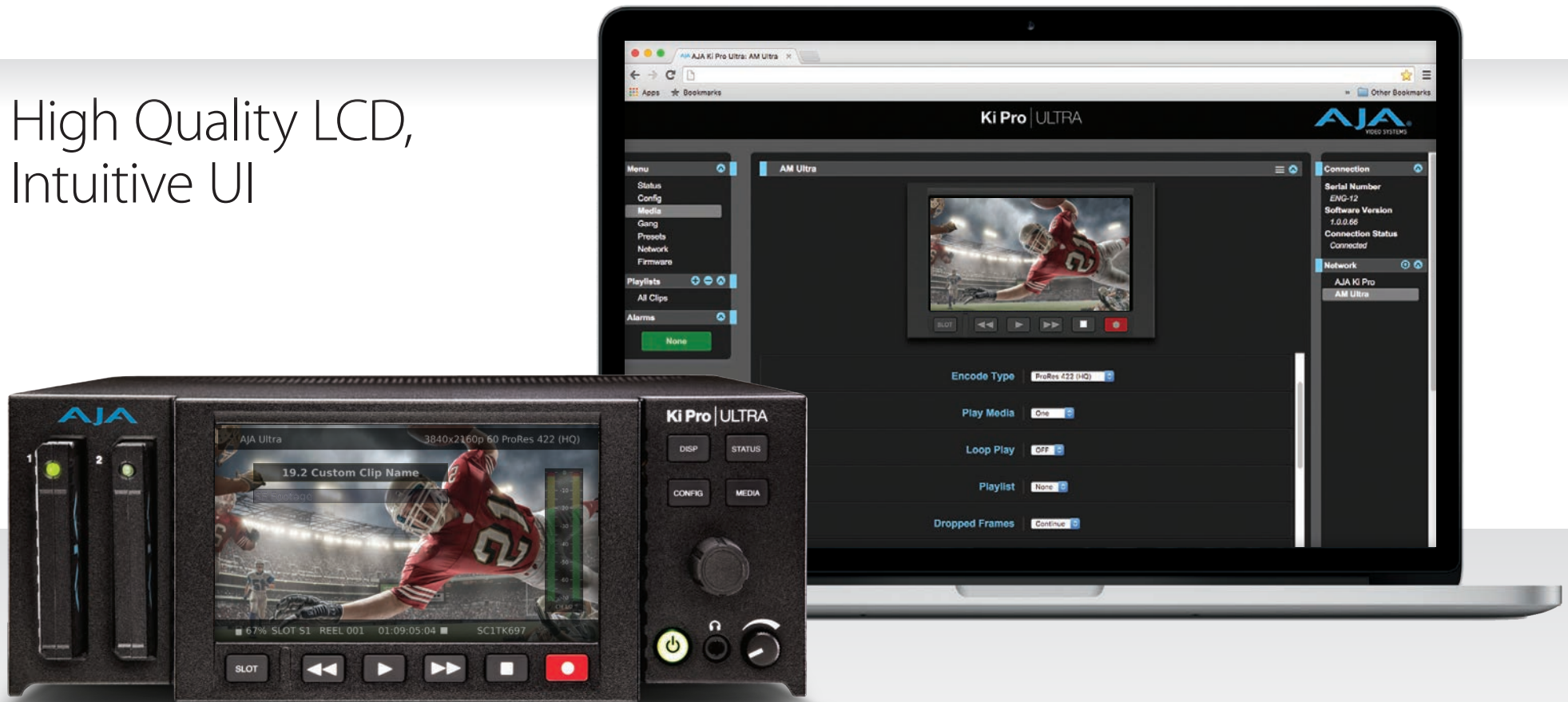
Ki Pro Ultra supports both Square Division Quad Split format and Two Sample Interleave giving a wide number of options to both record and playback 4K and UltraHD. Set up is easy, with Ki Pro Ultra sensing the format being delivered in its "Follow Input" mode. Ki Pro Ultra also allows you to select separate quad modes for both in and out, giving an additional conversion feature for when you need it.

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## Workflow



# High Quality LCD, Intuitive UI



## Interface with Ki Pro Ultra

Ki Pro Ultra features a beautiful high resolution HD display for pristine monitoring of your material, and serves as your interface to Ki Pro's familiar and intuitive menu system. The detailed overlay UI includes on-screen keyboard functionality and a clear view of the powerful yet simple to operate UI, all pristinely presented on the 4.8" 720p LCD display.

When remote from Ki Pro Ultra, utilize the fast LAN connectivity and access the internal web server UI from any web browser on any OS. Ki Pro Ultra's web interface allows firmware uploading, configuration of all settings, the ability to save presets and a simple pane for configuring gang recording when utilizing multiple units on a shoot.

## Choice, at your fingertips.

A rotary selection knob allows for quick and accurate adjustment of all configuration and settings options. Switch confidently between Status, Configuration and Media grouped settings with a touch of the clearly labeled buttons, and rotate the selection knob to choose the menu item for the parameter you wish to affect. The robust selection knob imparts confidence during selection through clear mechanical feedback. Then, once you found the setting you desire from a list within any menu item, simply click the rotary dial to set your preferred option.

To preserve your choices, Ki Pro Ultra offers the ability to save and reload presets, ensuring consistency throughout a project.

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## Connections (front panel)



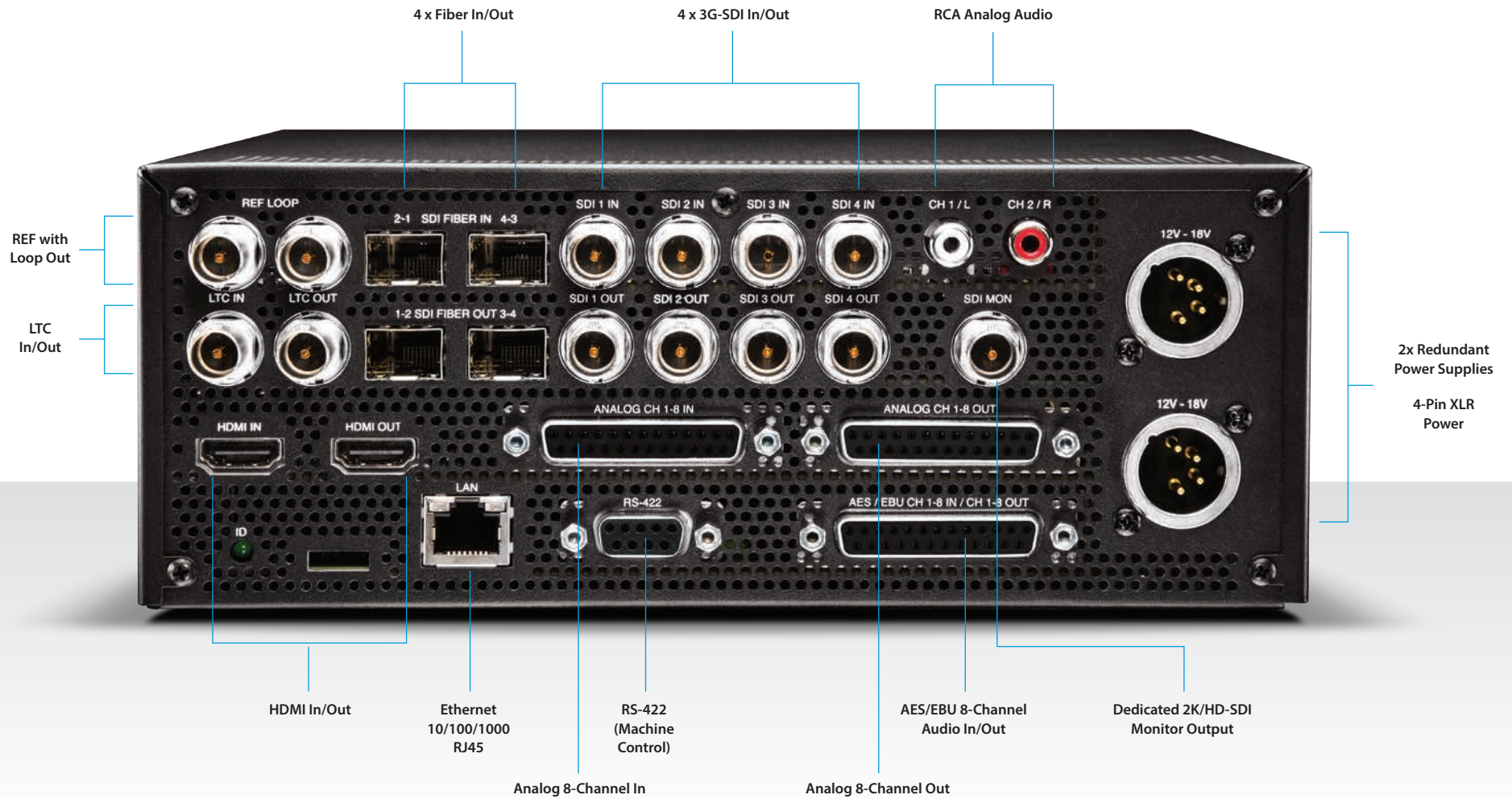
[Click here](#)

For full product specifications visit [www.aja.com/en/products/ki-pro-ultra/#techspecs](http://www.aja.com/en/products/ki-pro-ultra/#techspecs)



# Connections

(rear panel)



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## Accessories



**Pak Media**

Pak Media is a high capacity solid state drive encased in a protective housing with rugged connection engineered to handle the rigors of repeated use in the field. Available in 1TB, 512GB and 256GB capacities.



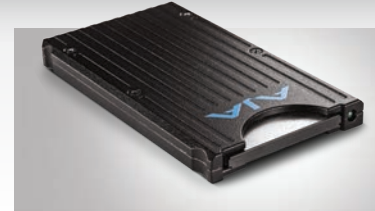
**Pak Dock**

External Pak Dock with Thunderbolt and USB 3.0 connections for fast transfer of media to a host computer.



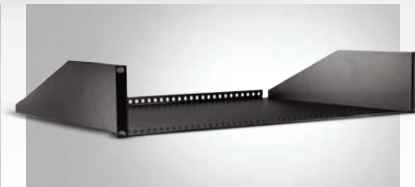
**Pak-Adapt-eSATA**

Pak-Adapt-eSATA is a Pak Media sized adapter with an eSATA connector that allows the user to attach a qualified RAID or single volume storage via an eSATA cable so that it may be used as a recordable drive.



**Pak-Adapt-CFast**

Pak-Adapt-CFast enables the use of qualified CFast cards in Ki Pro Ultra for recording and playback.



**KPU-Shelf**

Ki Pro Ultra features a small footprint for desk top use or can be mounted side by side using the additional KPU-Shelf for rackmount applications.

## Tech Specs

### Video Formats

- (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (UltraHD) 3840 x 2160p 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
- (HD) 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1080i 25, 29.97, 30
- (HD) 1080PsF 23.98, 24, 25\*, 29.97\*
- (HD) 720p 50, 59.94, 60

\*NOTE: 25 and 29.97 requires Record Type>PsF selection

### Codec Support

- Apple ProRes 4444\*
- Apple ProRes 422 (HQ)
- Apple ProRes 422
- Apple ProRes 422 (LT)
- Apple ProRes 422 (Proxy)

\*NOTE: Apple ProRes 4444 4K/UltraHD/2K/HD up to 30 fps

### Closed Captioning Support

- CEA 708, CEA 608

### File System Support

- HFS+, exFAT

### Removable Storage

- 2 x slots, AJA Pak SSD media Pak256, Pak512, Pak1000\*
- Pak-Adapt-eSATA\*\*, Pak-Adapt-CFast\*\*

\*NOTE: 4K/UltraHD 50, 59.94, 60 ProRes 422 (HQ) recording requires genuine AJA Pak1000 media

\*\*NOTE: Only with AJA qualified media

### Video Input Digital

- 4 x 3G-SDI, SMPTE-292/296/424, 10-bit (12-bit input supported)
- 4K/UltraHD 4:2:2 or 4:4:4 (4 x BNC)
- 4K/UltraHD LFR 3.0Gb/s 2SI (2 x BNC)
- 4K/UltraHD LFR 1.5Gb/s 2SI (4 x BNC)
- 4K/UltraHD HFR 3.0Gb/s Level A 2SI (4 x BNC)
- 4K/UltraHD HFR 3.0Gb/s Level B 2SI (4 x BNC)
- Dual Link 4:2:2, 4:4:4 (2 x BNC)
- Single Link 4:2:2, 4:4:4 (1 x BNC)
- HDMI v2.0 compatible, YCbCr, 4:2:0 only at 4K/UltraHD 50, 59.94, 60
- HDMI v1.4b, RGB or YCbCr
- 1 x HDMI Standard Type A connector
- Dual Channel Fiber Input (2 x Ports) SFPs required (not supplied)

### Video Output Digital

- 4 x 3G-SDI, SMPTE-292/296/424, 10-bit
- 4K/UltraHD 4:2:2 or 4:4:4 (4 x BNC)
- 4K/UltraHD LFR 3.0Gb/s 2SI (2 x BNC)
- 4K/UltraHD LFR 1.5Gb/s 2SI (4 x BNC)
- 4K/UltraHD HFR 3.0Gb/s Level A 2SI (4 x BNC)
- 4K/UltraHD HFR 3.0Gb/s Level B 2SI (4 x BNC)
- Dual Link 4:2:2 or 4:4:4 (2 x BNC)
- Single Link 4:2:2 or 4:4:4 (1 x BNC)
- 1 x HD-SDI monitor output with support for up to 2048 x 1080 4:2:2
- HDMI v2.0 compatible, YCbCr, 4:2:0 only at 4K/UltraHD 50, 59.94, 60
- HDMI v1.4b, RGB or YCbCr
- 1 x HDMI Standard Type A connector
- Dual Channel fiber output – (2 x Ports) SFPs required (not supplied)

### Audio Input Digital

- 16-Channel, 24-bit SDI/Fiber embedded audio, 48 kHz sample rate, synchronous
- 8-Channel, 24-bit HDMI embedded audio, 48 kHz sample rate, synchronous
- 8-Channel, AES/EBU (1/2 x DB-25 TASCAM pinout)

### Audio Input Analog

- 8-Channel, 24-bit A/D analog audio, 48 kHz sample rate (1 x DB-25 TASCAM Pinout)
- +24 dBu full scale digital
- +/- 0.2 dB 20 Hz to 20 kHz frequency response

### Audio Output Digital

- 16-Channel, 24-bit SDI/Fiber embedded audio, 48 kHz sample rate, synchronous
- 8-Channel, 24-bit HDMI embedded audio, 48 kHz sample rate, synchronous
- 8-Channel, AES/EBU via (1/2 x DB-25 TASCAM pinout)

### Audio Output Analog

- Stereo unbalanced headphone jack (1 x 3.5mm jack) with volume control
- 8-Channel, 24-bit D/A analog audio, 48 kHz sample rate (1 x DB-25 TASCAM pinout)
- 2-Channel unbalanced 2 x RCA connectors

### Timecode

- SDI RP188/SMPTE 12M via SDI BNC
- LTC input (1 x BNC)
- LTC output (1 x BNC)

### Reference Input

- Reference Loop (2 x BNC)

### Network Interface

- 10/100/1000 Ethernet (RJ-45)
- Embedded web server for remote control via REST
- Video Confidence Monitor via Web Interface
- Clip upload/download via Web Interface in DATA-LAN mode
- Configuration and Transport Control via Web Interface

### RS-422

- 1 x DB-9 female connector, SONY 9-pin serial protocol

### User Interface

- Rotary selector knob
- Dedicated, backlit transport controls and menu buttons
- Large 1280 x 720 TFT LCD display with Video Monitor and Menu/Status Overlays

### Size (w x d x h)

- 8.64" x 9.34" x 3.31" (219.46mm x 237.24mm x 84.08mm)

### Weight

- 5.6 lbs (2.6 kg)

### Power

- Dual redundant, 5.4A max, 35W-60W typical-65W Max
  - 100-240 VAC 50/60 Hz (adapter)
  - 12-18Vdc 4-pin XLR (chassis)

### Environment

- Operating Temperature: 0 to 40 degrees C (32 to 104 degrees F)
- Operating Relative Humidity: 10-90% noncondensing
- Operating Altitude: <3,000 meters (<10,000 feet)
- Safe Storage Temperature (Power OFF): -40 to 60 degrees C (-40 to 140 degrees F)

### 3 Year Warranty

AJA Video warrants that Ki Pro Ultra 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](http://www.aja.com)