Ki Pro

Ki Pro enables cost-effective cameras to produce professional quality recordings in Apple ProRes 422 and Apple ProRes 422 (HQ).

Connect Ki Pro to a wide variety of professional HD cameras via component or HD-SDI. The Apple ProRes 422 recordings that Ki Pro produces rival the native recordings of many HD cameras. Apple ProRes 422 recordings are full raster video at 10-bit quality whereas typical camera recordings produce a variety of compressions, horizontal resolutions, file types, and are often only at 8-bit.

Use Ki Pro’s hardware-based conversion capabilities to unify the different formats employed by broadcast quality cameras (1080 or 720) so that all of your cameras can record in the same format and frame rate. You can even extend the life of your professional SD cameras with Ki Pro’s upconversion capability.
Everyone from broadcasters to indie filmmakers can probably agree on one thing: the possible choices for image acquisition are daunting. Different cameras, different formats, different recording media and different compression schemes. Wouldn’t it be nice if there was a way to simplify acquisition so that virtually any camera, digital or analog, could record the same format and resolution? Enter the AJA Ki Pro.

The AJA Ki Pro is a tapeless video recording device that records high-quality Apple ProRes 422 QuickTime files onto computer-friendly media. Because it features SD/HD-SDI, HDMI, and analog inputs, you can interface with virtually any type of camera you might own or rent. Enjoy monitoring flexibility through Ki Pro’s numerous simultaneous outputs, connecting to both professional and consumer monitors.

Ki Pro is portable and rugged; designed for real production environments. With the optional exo-skeleton it can sit below your camera—out of the way of your battery adapters, wireless mics and other accessories. Integration with your other production gear is seamless.

Ki Pro is intuitive to operate. Alongside the camera, the familiar VTR-like buttons provide immediate controls for basic operation. From a distance, use a web browser via ethernet or WiFi to control operations from a laptop or iPhone.

**Features**

- Simultaneously record to host camera and Ki Pro
- Bridge proprietary compression schemes by recording to Apple ProRes 422
- Bridge media complexity by recording to portable file-based storage
- Bridge format chaos via hardware up/down/cross-conversion
- Extend client review capabilities
- Bridge production and post-production, effectively eliminating log and capture
- Extend productive life of existing cameras
- Embrace future workflows with powerful conversion capabilities

**Acquire**

Ki Pro is post-ready production.

**Media**

Remove the Storage Module or ExpressCard 34 media from Ki Pro.

**Edit**

Connect this media to either your Apple MacBook Pro or Apple Mac Pro. Import the footage into Final Cut Pro. Edit. Simple.
**Specifications**

**Video Input**
- Digital: SD and HD-SDI (1x BNC), SMPTE-259/292/296
- HDMI

**Analog**
- SD/HD Component (1x BNC)
- SMPTE/EBU/N10, Betacam S52 line, Betacam S52L, RGB, YPbPr
- 12-bit A/D, 2x oversampling

**Video Output**
- SD and HD-SDI, SMPTE-259/292/296 (1x BNC)
- HDMI

**Audio Input**
- Composite (1x BNC)
- NTSC, PAL
- 12-bit D/A, 8x oversampling
- SD/HD-SDI Component (15x BNC)
- Betacam S52, RGB
- 12-bit D/A, 8x oversampling
- HD, YPbPr, RGB
- 12-bit D/A, 2x oversampling

**Audio Output**
- 24-bit SDI embedded audio, 8 channel, 48kHz
- HDMI embedded, 2 channel

**Analogue**
- 24-bit A/D, 2 channel balanced (2 XLR), 48kHz
- Input level: Line, Mic, Mic + phantom 48Vdc
- 2 channel unbalanced (2 RCA)

**Network**
- 10/100/1000 Ethernet (RJ45)
- MDI/MDIX
- Embedded webserver for remote control

**Panel User Interface**
- 2 x 20 character display, with dedicated buttons
- Timecode
- LTC timecode input and output via BNC
- Control
- LANC Loop (2 LANC connections)
- Lens Tap: connects to optional AJA Lens Tap intercept cable placed between camera body and lens for start/stop control
- IEEE 1394a/FireWire 400 for control and timecode data

**Machine Control**
- RS-422, 9-pin— for future use
- FireWire: IEEE 1394, FireWire™ 400Mb/s connects to Mac Pro or MacBook Pro (mount as harddrive)

**Audio Output**
- 12-bit A/D, 8x oversampling
- HD, YPbPr, RGB
- 12-bit D/A, 2x oversampling

**Hardware cross-conversion**
- 10-bit

**Crop**
- Image is cropped to fit new screen size

**Anamorphic**
- Full-screen

**Letterbox**
- Image is reduced with black top and bottom

**Zoom Wide**
- Combination of zoom and horizontal stretch to fill 16:9 screen; this setting can introduce a small aspect ratio change

**Zoom Letterbox**
- Image zoomed to fill screen slightly to fill a 14:9 image with black side bars

**Zoom 14:9**
- Results in a 4:3 image zoomed of screen with black side bars

**Pillar Box 4:3**
- Results in a 4:3 image in center

**Search Box**
- A/D: image is cropped to fit new screen size

**Zoom 720P to 1080PsF**
- 720P to 1080PsF

**Hard Drive Up-conversion**
- 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

**Hardware down-conversion**
- 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

**IEEE-1394a/FireWire 400 Mb/s connects to Mac Pro or MacBook Pro (mount as harddrive)**

**Camera Control**
- LTC timecode input and output via BNC

**User Interface**
- 2 x 20 character display, with dedicated buttons

**Sound Recording**
- Start/stop Ki Pro recording operations.

**Ki Pro SSD Storage Module**
- Although the Ki Pro comes standard with a removable HDD Storage Module, an optional SSD Storage Module is also available. The Ki Pro Solid State Storage Module (SSD) is recommended for mobile environments where shock-proof sturdiness may be needed. The Ki Pro SSD Storage Module offers the ultimate in media reliability.

**Ki Pro Rod Accessory Kit**
- This kit adds endplates to the Exo-skeleton so you can attach two user-supplied 15mm camera accessory rods. The endplates have knobs for adjusting the height of the rod brackets relative to the camera, as well as a set of knobs for securing the rods in the brackets.

**AJA Lens Tap Cable Accessory**
- This AJA proprietary cable allows Ki Pro to connect between the lens tap control connector on a lens and camera body, thereby intercepting the lens control signals for use in simple start/stop Ki Pro recording operations.

**Product includes**
- Ki Pro Recorder
- Ki Pro SSD Storage Module
- Ki Pro SSD Storage Module
- AC Adapter 110/220 with 4-pin XLR connector

**Product options**

**Exo-skeleton**
- Provides a surrounding chassis for the Ki Pro that can both mount to a tripod and provide a mount for camera on top; this combination allows convenient access to controls.

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**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, KONA and XENA desktop video products, 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](http://www.aja.com)

**Because it matters.**