

ACQUIRE

KiPRO

Production and Post – Unified



KiPRO



KiPROmini

Because it matters.

AJA[®]
VIDEO SYSTEMS

KiPRO

Post-production redefined...during production.

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 could record the same format and resolution? Solution—the AJA Ki Pro Family, consisting of the Ki Pro and Ki Pro Mini.

The AJA Ki Pro is a tapeless video recording device that records high-quality Apple ProRes 422 QuickTime files onto computer-friendly Storage Module media. Because it features HD/SD-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. Offering up/down/cross-conversion and a multitude of connections, integration with your other production gear is seamless.

The AJA Ki Pro Mini is similar to the Ki Pro, but instead of Storage Modules, it uses high-speed CompactFlash cards, emphasizing portability for roles where size matters and conversion and I/O option diversity aren't needed.

All Ki Pros are intuitive to operate. Alongside the camera, the familiar VTR-like buttons provide immediate controls for basic operation.

Ki Pro Family 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
- Extend client review capabilities
- Bridge production and post-production, eliminate log and capture
- Extend productive life of existing cameras

Ki Pro: End format chaos and embrace future workflows via powerful hardware up/down/cross-conversion. Offers ultimate control flexibility with Wireless/Ethernet and can be used as a basic VTR via RS422. Flexible storage.

Ki Pro Mini: Follows the camera everywhere, offering a tiny footprint, support for SDI & HDMI cameras, and simple CF card storage. Smaller than some battery packs, it mounts to virtually everything.

From a distance, use a web browser via ethernet to control operations from a laptop. The standard Ki Pro can even be controlled via Wireless 802.11 with an iPhone or computer.

A revolution in production and post

Eliminate the cost and inconvenience of logging and capturing footage. Ki Pro produces Apple ProRes 422 QuickTime files that are ready for immediate use within Final Cut Studio [(Apple ProRes 422, Apple ProRes (LT), Apple ProRes (Proxy) and Apple ProRes 422 (HQ) are supported]. Simply connect the media to a host computer and begin editing. Unify cameras and formats with one superior 10-bit full-raster codec—Apple ProRes 422. The standard Ki Pro features cross-conversion so you can have a 720p camera produce a 1080i recording to match your other camera... or vice versa. And if you've got high-quality SD cameras, it can even help you extend their use since it also up-converts SD camera signals to HD recordings. Connect Ki Pro Storage Modules to your Avid system and edit projects right away through AMA.

- **No more digitizing**
- **No more worrying about which camera to use**
- **High-quality ready-to-edit video**

Ki Pro in the field

All Ki Pros are portable and rugged; designed for production environments. Powered through an industry standard 4-pin XLR, you have flexible AC and battery options.

The Ki Pro Mini is ultra-compact, designed to fit battery accessory plates, hot-shoe adapters and other camera add-ons—especially when used with the optional mounting plate. The standard Ki Pro offers an optional exo-skeleton for use with your camera and tripod—complete with sliding baseplate and slots for 15mm rods.

Ki Pro connects

Capture the full quality of your camera by tapping the direct uncompressed camera output. Connect any digital camera via SDI or HDMI to Ki Pro recorders. Balanced audio connectors, LTC input/output, and even LANC, are provided. On the standard Ki Pro add component analog and unbalanced audio connections. By bypassing tape or media compression, Ki Pro can produce better picture quality than the camera does using its own recording media.

Ki Pro and Final Cut Studio

From acquisition to delivery, use the codec at the core of Apple's Final Cut Studio suite of applications. All Ki Pros support an Apple file-based workflow by recording standard Apple ProRes 422 QuickTime files on industry standard media. On Ki Pro Mini, record to standard Compact Flash (CF) cards. On the standard Ki Pro, record to a removable HDD Storage Module containing a hard disk drive (standard) or an optional SSD Storage Module with a solid state disk. When removed, the Storage Module functions as a standard bus-powered FireWire 800 drive. If bus power is not available, the Storage Module has a standard DC power connector for a user-supplied AC power adapter.

Acquire



Ki Pro is post-ready production.

Media

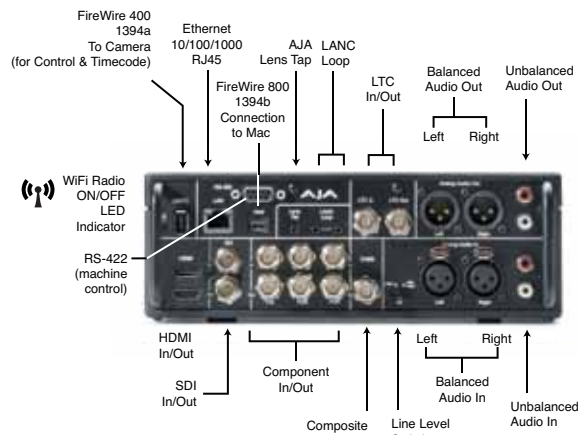


Remove the Storage Module media from Ki Pro.

Edit



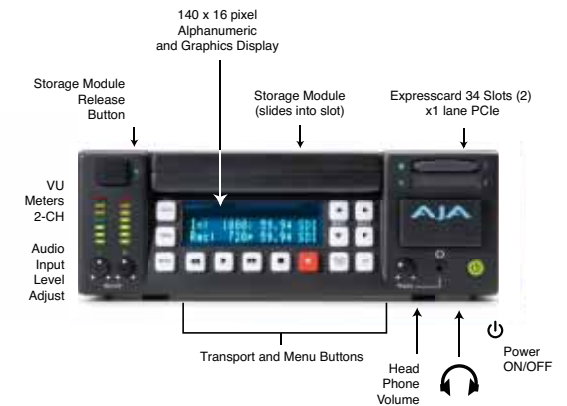
Connect this media to either your Apple MacBook Pro or Apple Mac Pro. Import the footage into Final Cut Pro. Edit. *Simple.*



Connector Side



Rear



Operator Side

Prosumer

Professional

Broadcast



Connect prosumer HDV and AVCHD camcorders via HDMI to 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. Use multiple Ki Pros for multi-camera shoots.

KiPROmini

Ki Pro Mini is the smallest and simplest way of connecting production and post, anywhere shooting takes you. With a miniature form factor that makes for the smallest camera and recorder package available, Ki Pro Mini is powerful, supporting all four types of Apple ProRes 422 (including HQ, LT and Proxy). The newest member of the award winning Ki Pro family, Ki Pro Mini simplifies the link between production and post by unobtrusively fitting in small spaces and acquiring on the best codec for use with Apple Final Cut Studio, from any SDI or HDMI camera, regardless of format. With its high quality digital connectivity, you've got the perfect solution for portable on-set digital capture.

- **Extreme Portability for any shooting environment**
- **10-bit full raster recording to Apple ProRes 422 SD and HD formats**
- **Apple ProRes 422 (HQ)**
Apple ProRes 422
Apple ProRes (LT)
Apple ProRes (Proxy)
- **Record Edit-Ready SD/HD files from any camera to Compact Flash (CF) cards**
- **Skip log and capture with instant mounting of native OSX media**
- **Professional connectivity through SD/HD SDI and HDMI I/O**

Coming soon: support for Avid DNxHD®

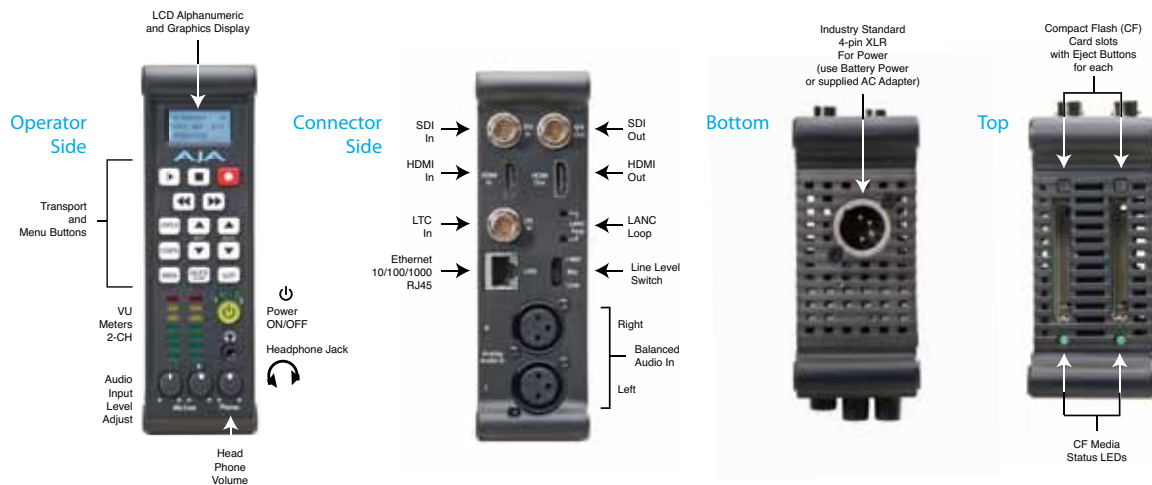
AJA's Ki Pro Mini was designed as a miniature field recorder for creating "ready-to-edit" professional digital video. Ki Pro Mini supports an Apple "file-based" workflow by recording standard Apple ProRes 422 QuickTime files on industry standard Compact Flash (CF) media. When removed, Compact Flash cards function as standard HFS drives when connected to a Mac computer via any standard off-the-shelf Compact Flash reader.

Ki Pro Mini's multi-purpose mechanical design and small form factor allow flexibility in mounting to the camera or tripod using industry standard mounting plates or shoe adapters. An optional Ki Pro Mini mounting plate offers a wide variety of hole-patterns for mating either side of the unit with virtually any camera accessory bracket.

Like AJA's famous Ki Pro, KONA and Io HD desktop products, Ki Pro Mini offers unparalleled I/O quality. Within its portable and rugged form factor, Ki Pro Mini offers broadcast quality SD/HD digital I/O including SDI, HD-SDI and HDMI, two channels of balanced audio (2 XLRs) with switch selectable line/mic levels, and LTC timecode input.

Control options are flexible, with front panel and web browser interfaces provided (Ethernet 10/100/1000 via an RJ45 connector).

Lens to Post...in a Flash. The Highly Portable 10-bit 4:2:2 Flash Disk Recorder.



Acquire



Ki Pro Mini is tiny and can be used almost anywhere onset with a camera. Use with optional mounting plate to attach to hot shoes, battery plates and more.

Media



After recording clips, remove the CF Card from Ki Pro Mini and you're ready to begin editing. No log and capture required.

Edit



Insert CF media into a 3rd-party reader and attach to an Apple MacBook Pro or Apple Mac Pro. Copy media to Mac and import footage into Final Cut Pro. Edit. *Simple.*

Specifications Ki Pro

Video Input

Digital:
SD and HD-SDI (1x8NC), SMPTE-259/292/296
HDMI

Analog:

SD/HD Component (3x8NCs):
SMPTE/EBU N10, Betacam 525 line,
Betacam 525J, YPbPr

12-bit A/D, 2x oversampling

Video Output (all simultaneously active)

Digital:
SD and HD-SDI, SMPTE-259/292/296 (1x8NC)
HDMI

Analog:

Composite (1x8NC):
NTSC, NTSCJ, PAL
12-bit D/A, 8x oversampling
SD/HD Component (3x8NCs):
SD: SMPTE/EBU N10, Betacam 525 line,
Betacam 525J, RGB
12-bit D/A, 8x oversampling
HD: YPbPr, RGB
12-bit D/A, 2x oversampling

Audio Input

Digital:
24-bit SDI embedded audio, 8 channel, 48kHz
HDMI embedded, 2 channel

Analog:

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

Audio Output

Digital:
24-bit SDI embedded audio, 8 channel, 48kHz
HDMI embedded, 8 channel

Analog:

24-bit D/A, 2 channel balanced XLR, 48kHz
2 channel unbalanced (2 RCA)

Network

10/100/1000 Ethernet (RJ45)
802.11 Wireless
Embedded webserver for remote control

Panel User Interface

2 x 20 character display, with dedicated buttons

Timecode

SDI RP188, LTC timecode input and output via BNC

Control

LANC Loop (2 LANC connectors)
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
(future feature)

Machine Control

RS-422, 9-pin

FireWire

IEEE-1394b, FireWire™ 800Mb/s connects to Mac Pro or
MacBook Pro (future feature)

Hardware up-conversion - 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: image zoomed to fill screen
Zoom Wide: combination of zoom and horizontal
stretch to fill 16:9 screen; this setting can introduce a
small aspect ratio change

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

Hardware cross-conversion - 10-bit

1080i to 720P
720P to 1080i
720P to 1080PsF

SD to SD aspect ratio conversion

Letterbox: transforms SD anamorphic to a letterboxed
image.

H Crop: produces a horizontally stretched effect on the
image; transforms anamorphic SD to full frame.

SD Pillarbox: produces image in screen center with
black borders on left and right sides and an
anamorphized image in the center.

V Crop: transforms SD letterbox material to an
anamorphic image.

Power

100-240 VAC (to supplied AC Adapter)
12Vdc to power connector input on side of chassis

Network

10/100/1000 Ethernet (RJ45)
Embedded webserver for remote control

Panel User Interface

3-line character display with dedicated buttons

Timecode

SDI RP188, LTC timecode input via BNC

Control

LANC Loop (2 LANC connectors)

Power

100-240 VAC (to supplied AC Adapter);
12Vdc to power connector input on bottom of chassis

Ki Pro Product includes:

- Ki Pro
- Ki Pro HDD Storage Module
- AC Adapter 110/220 with 4-pin XLR connector

Ki Pro 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.

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 Hard Drive Storage Module – although Ki Pro comes with one
removable HDD Storage Module standard, you can buy extras and simply
swap them as needed.

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 – 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.

Ki Pro Mini includes:

- Ki Pro Mini
- AC Adapter 110/220 with 4-pin XLR connector

Ki Pro Mini Options

Mini Mount – This option plate allows you to mount Ki Pro Mini to
3rd-party devices. The plate can be attached to the Ki Pro mini via 4
supplied screws; plates can be attached to either or both sides of Ki Pro
Mini. A large number of screw holes in the plate allows you to mate Ki Pro
Mini to 3rd-Party battery plates, hot-shoe adapters and other mounting
applications.

Mini Stand and Adapter Cable – This stand securely holds the Ki Pro Mini
upright on a desk, shelf, or any flat surface. A right angle power cable is
provided for easy connection between the power supply and the Ki Pro
Mini.

Ki Pro Mini Rod Accessory Plate – this option provides an accessory plate
that can attach to a Ki Pro Mini Mounting Plate (sold separately) so you
can attach Ki Pro Mini to user-supplied 15mm camera accessory rods. The
accessory plate has knobs for adjusting the height of the rods relative to
the Ki Pro Mini Mounting Plate.

Exo-skeleton



Storage Module
(HDD or SSD)



Rod Accessory kit
installed on
Exo-skeleton



Two Mounting Plates
shown attached to a
Ki Pro Mini



Ki Pro Mini mounted
in optional Mini
Stand with power
adapter cable



Rod Accessory
Plate installed on
Mini Mount (sold
separately)



HDMI[™]
HIGH DEFINITION MULTIMEDIA INTERFACE

ProRes

Incredible 3 Year Warranty

AJA Video warrants that Ki Pro products, except for Storage Modules, will be free from defects in materials and workmanship for a period of three years from the date of purchase. Storage Modules are warranted for 1 year.

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 and 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 world. For further information, please see our website at www.aja.com

B e c a u s e i t m a t t e r s .



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