



Ki Pro Rack

File Based 1RU Recorder & Player



10-bit, Full Raster Recording



RS-422 Control



Familiar Controls and Operation



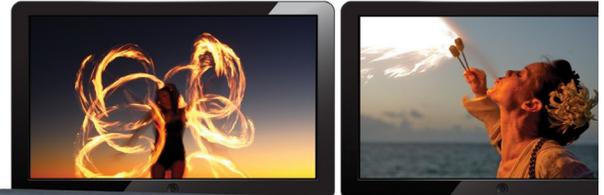
Closed Captioning Support



Reliable Storage Media



Ethernet Connectivity



Professional Connections



File Based 1RU Recorder and Player

The power of Ki Pro in a 1RU format, the perfect fit for your file based workflow.

Ki Pro Rack offers high quality, 'ready-to-edit' file capture, designed to get material from source to editorial as quickly as possible.

With a wealth of professional connections, Ki Pro Rack will fit right into your existing cabling and routing system. Ki Pro Rack records Apple ProRes and Avid DNxHD files at your choice of quality level direct to removable hard disk or SSD KiStor storage modules, eliminating the need for time consuming logging and capturing.

Like Ki Pro, Ki Pro Rack features AJA's industry leading conversion technology, enabling you to perform broadcast quality up, down, cross-conversion during recording or playback without the need for additional conversion hardware.

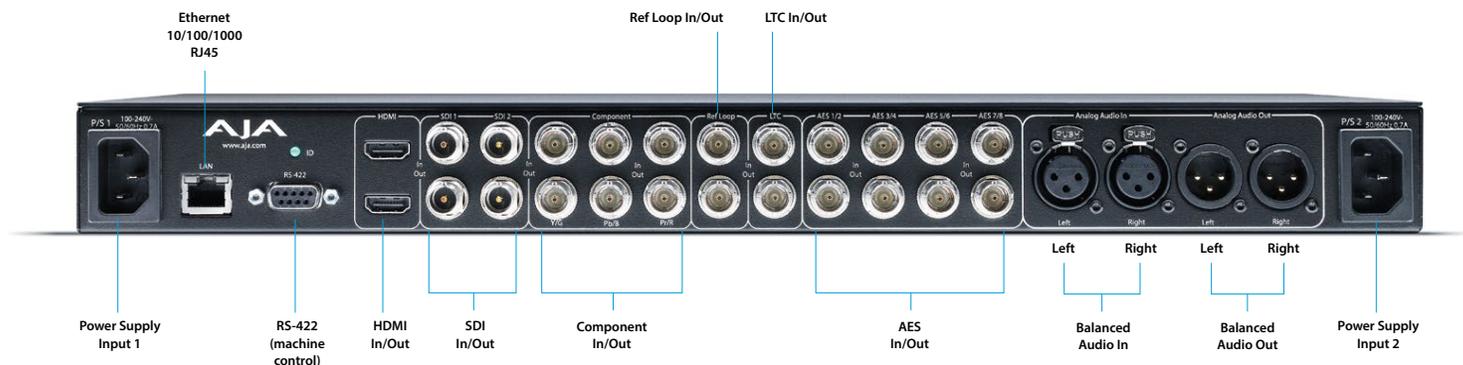
Anyone familiar with the operation of a tape deck will feel immediately at home with Ki Pro Rack's tactile controls, while the onscreen menu structure ensures quick setup and a rapid learning curve.

Utilizing the rollover recording capability with the dual media drive bays, recording can start on one media module and seamlessly continue onto the second module once the first has reached capacity. This makes Ki Pro Rack ideal for long-form recording needs while maintaining incredibly image high quality.

Ki Pro Rack's network connectivity opens up new methods for integrating into your facility. The built-in web UI allows centralized setup or remote operation of all Ki Pro units simultaneously. Configure settings, control playback and manage content using any web browser connected to the network. Mounted KiStor drives can be accessed via the web UI, allowing files to be transferred to and from Ki Pro Rack without having to remove the storage media.

Ki Pro Rack

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Tech Specs

Video Formats

- 25i 29.97
- 625i 25
- 720p 23.98*, 25*, 29.97*, 50, 59.94, 60
- * Note: These formats require a valid camera source and the use of the Record Type>VFR selection
- 1080i 25, 29.97, 30
- 1080PsF 23.98, 24, 25*, 29.97*
- * Note: These formats require a valid camera source and the use of the Record Type>PsF selection
- 1080p 23.98, 24, 25, 29.97

Codec Support

- Apple ProRes 422
- Apple ProRes 422 (HQ)
- Apple ProRes 422 (LT)
- Apple ProRes 422 (Proxy)
- Avid DNxHD 36
- Avid DNxHD 145
- Avid DNxHD 220
- Note: Avid codecs are as indicated on Ki Pro Rack. Actual data rates will vary with frame rate.

Removable Storage

- AJA KiStor modules – 2 slots with rollover recording

Video Input Digital

- SD/HD SDI, SMPTE-259/292/296, 10-bit
- Single Link 4:2:2 (2 x BNC, input selection in software)
- HDMI v1.3

Video Input Analog

- SD/HD component (3 x BNC)
- SMPTE/EBU N10, Betacam 525 line, Betacam 525J
- 12-bit A/D, 2x oversampling
- +/- .25 dB to 5.5 MHz Y frequency response
- +/- .25 dB to 2.5 MHz C frequency response
- 0.5% 2T pulse response
- <2 ns Y/C delay inequity or Composite (1 x BNC – CVBS on Y)

Video Output Digital

- SD/HD SDI, SMPTE-259/292/296, 10-bit
- Single Link 4:2:2 (2 x BNC)
- HDMI v1.3
- Note: HDMI requires 1080i, 720p or 1080p to be active; HDMI does not provide support for PsF

Video Output Analog

- Component (3 x BNC)
- HD: YPbPr, RGB
- SD: YPbPr, RGB (component mode)
- SMPTE/EBU N10, Betacam 525 line, Betacam 525J, RGB
- 12-bit D/A, 8x oversampling
- +/- .2 dB to 5.5 MHz Y frequency response
- +/- .2 dB to 2.5 MHz C frequency response
- 0.5% 2T pulse response
- <1 ns Y/C delay inequity or Composite (1 x BNC – CVBS on Y)
- NTSC, NTSCJ, PAL
- 12-bit D/A, 8x oversampling
- +/- .2 dB to 5.0 MHz Y frequency response
- +/- .2 dB to 1 MHz C frequency response
- 0.5% 2T pulse response
- <1% Diff Phase
- <1% Diff Gain

Audio Input Digital

- 2-Channel or 8-Channel user selectable
- 8-Channel, 24-bit SDI embedded audio, 48 kHz sample rate, synchronous
- 2-Channel, 24-bit HDMI embedded audio, 48 kHz sample rate, synchronous
- 8-Channel, 24-bit AES/EBU audio, 48 kHz sample rate, synchronous or non-synchronous, internal sample rate conversion (4 x BNC)

Audio Input Analog

- 2-Channel, 24-bit A/D analog audio, 48 kHz sample rate, balanced (2 x XLR)
- +24 dBu full scale digital
- +/- 0.2 dB 20Hz to 20kHz frequency response
- Note: Line or mic selection via CONFIG menu parameters

Audio Output Digital

- 8-Channel, 24-bit SDI embedded audio, 48 kHz sample rate, synchronous
- 8-Channel, 24-bit HDMI embedded audio, 48 kHz sample rate, synchronous
- 8-Channel, 24-bit AES/EBU audio, synchronous or non-synchronous, internal sample rate conversion (4 x BNC)

Audio Output Analog

- 2-Channel, 24-bit D/A analog audio, 48 kHz sample rate, balanced (2 x XLR)
- +24 dBu full scale digital
- +/- 0.2 dB 20 Hz to 20 kHz frequency response
- Stereo unbalanced headphone (1 x 3.5mm mini jack)

Up Conversion

- Hardware 10-bit
- Anamorphic: fullscreen
- Pillar box 4:3: results in a 4:3 image in the center of the 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 screen
- 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: fullscreen
- Letterbox: image is reduced with black top and bottom bars added to the 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

Timecode

- SDI RP188/SMPTE 12M via SDI BNC
- HDMI (when used with compatible cameras)
- LTC input (1 x BNC)
- LTC output (1x BNC) (Note: active during playback not during record or EE)

Reference Input

- Analog Color Black (1V) or Composite Sync (2 or 4V)
- Looping, nonterminating.

Network Interface

- 10/100/1000 Ethernet (RJ-45)
- Embedded web server for remote control

User Interface

- 2 x 20 character display, with dedicated buttons

Closed Captioning Support

- CEA-708, CEA-608