Ki PRO rack

The ultimate in tape replacement.

The power of Ki Pro in a 1RU format, the perfect fit for broadcasters transitioning away from tape.

For video facilities transitioning from tape to file-based workflows for recording and playback, 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 (without the requirement for special converters) and record 10-bit Apple ProRes and Avid DNxHD files direct to removable hard disk or SSD Storage Modules, eliminating the need for time-consuming logging and capturing. The files can be used in most editing systems without the need for additional transcoding or importing processes.
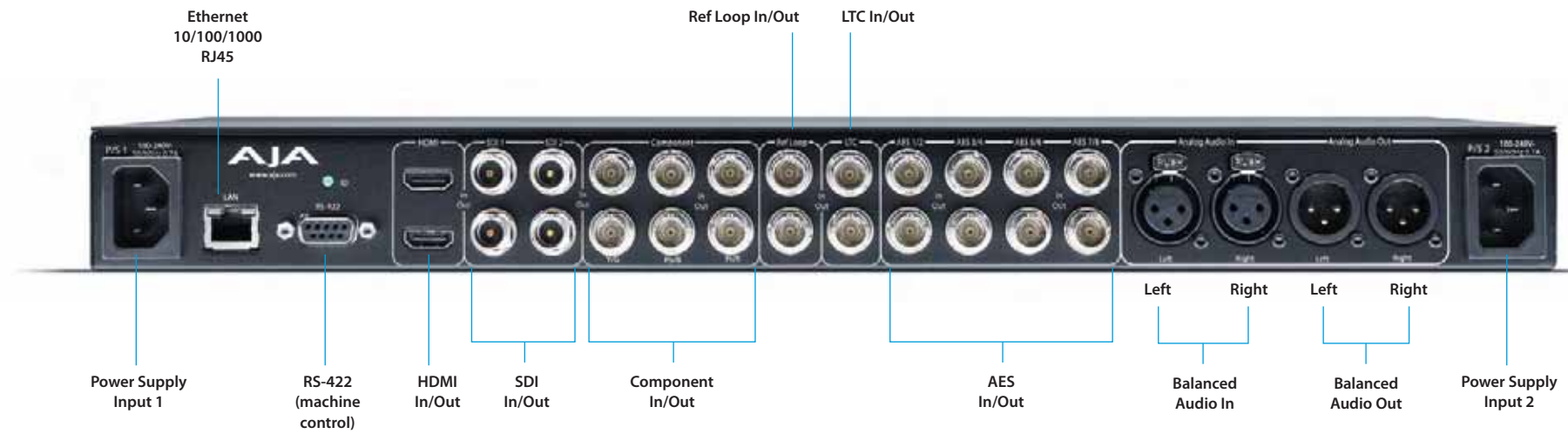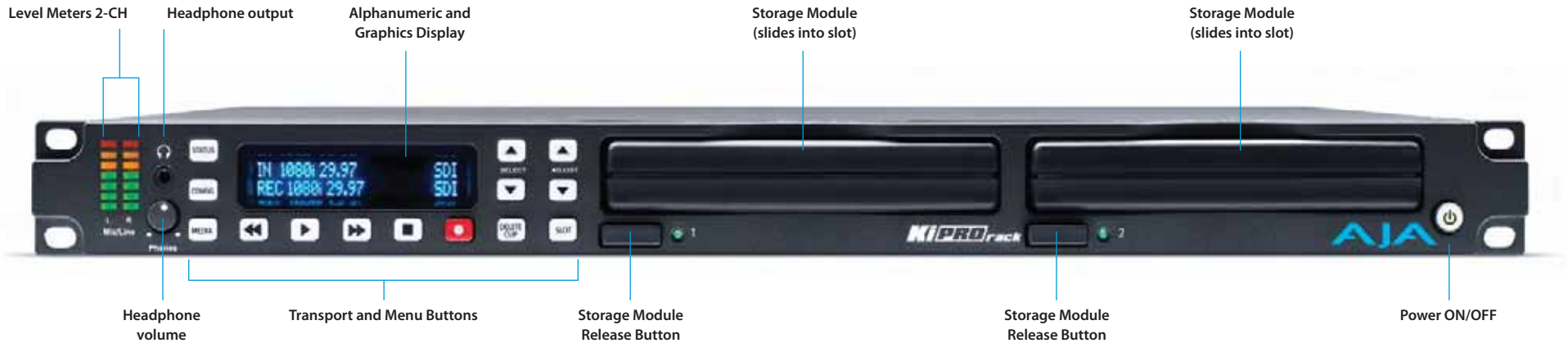
Like Ki Pro, Ki Pro Rack features AJA's industry leading conversion technology, enabling you to perform broadcast-quality up/down/cross conversion during recording or playback without the need for additional conversion hardware.

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

The twin media drive bays on the Ki Pro Rack allow extremely fast media changes - you can switch drives and start recording straight away, without having to wait to eject the first one.

Because of its network connectivity, media can be copied to and from Ki Pro rack over an Ethernet connection, allowing fast file transfers without the need to physically remove the storage media. In larger facilities this cuts down dramatically on the number of people that have to enter the machine room and minimizes the risk of unintentional interference with equipment. Like all other Ki Pro's, multiple Ki Pro Racks can be networked together for control via a single interface.

Front and rear panels

Level Meters 2-CH   Headphone output   Alphanumeric and Graphics Display   Storage Module (slides into slot)   Storage Module (slides into slot)

IN 1080i 29.97   SDI
REC 1080i 29.97   SDI

Headphone volume   Transport and Menu Buttons   Storage Module Release Button   Storage Module Release Button   Power ON/OFF

Ethernet 10/100/1000 RJ45   Ref Loop In/Out   LTC In/Out

Left   Right   Left   Right

Power Supply Input 1   RS-422 (machine control)   HDMI In/Out   SDI In/Out   Component In/Out   AES In/Out   Balanced Audio In   Balanced Audio Out   Power Supply Input 2

Tech specs

Ki Pro Rack tech specs

Video Input
Digital:
  1 Channel, selectable input
  SD and HD-SDI (2xBNC), SMPTE-259/292/296
  HDMI
Analog:
  SD/HD Component (3xBNCS):
    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 (1xBNC)
  HDMI
Analog:
  Composite (1xBNC):
    NTSC, NTSCJ, PAL
    12-bit D/A, 8x oversampling
  SD/HD Component (3xBNCs):
    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:
  AES 24-bit, 8 channel, 48kHz (4xBNC)
  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
Audio Output
Digital:
  AES 24-bit, 8 channel, 48kHz (4xBNC)
  24-bit SDI embedded audio, 8 channel, 48kHz
  HDMI embedded, 2 channel

Analog:
  24-bit D/A, 2 channel balanced XLR, 48kHz
Network
  10/100/1000 Ethernet (RJ45)
  Embedded webserver for remote control
Panel User Interface
2 x 20 character display, with dedicated buttons
Timecode
LTC timecode input and output via BNC
SDI embedded RP188 timecode
On-screen timecode display on SDI 2 output
Serial Port
RS-422 (slave pinout), 9-pin (available beginning
  with version 2.0 firmware),
Connector pinout is as follows:
1 GND
2 TX -
3 RX +
4 GND
5 No Connection
6 GND
7 TX +
8 RX -
9 GND
Shell GND
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
Storage Module drive bays
2 (each with eject button and select LED)
Physical
Height: 1.75" (4.45cm)
Width: 19" (48.26cm)
Depth: 12.5" front panel to the back of the deepest
  connector (37.75cm)
Temperature
Operating Temperature Range: 5C to 40C
Safe Storage Temperature Range (power OFF):
  -20C to 60C
Power
Voltage: 100-240 VAC
Typical operating power: 40W