



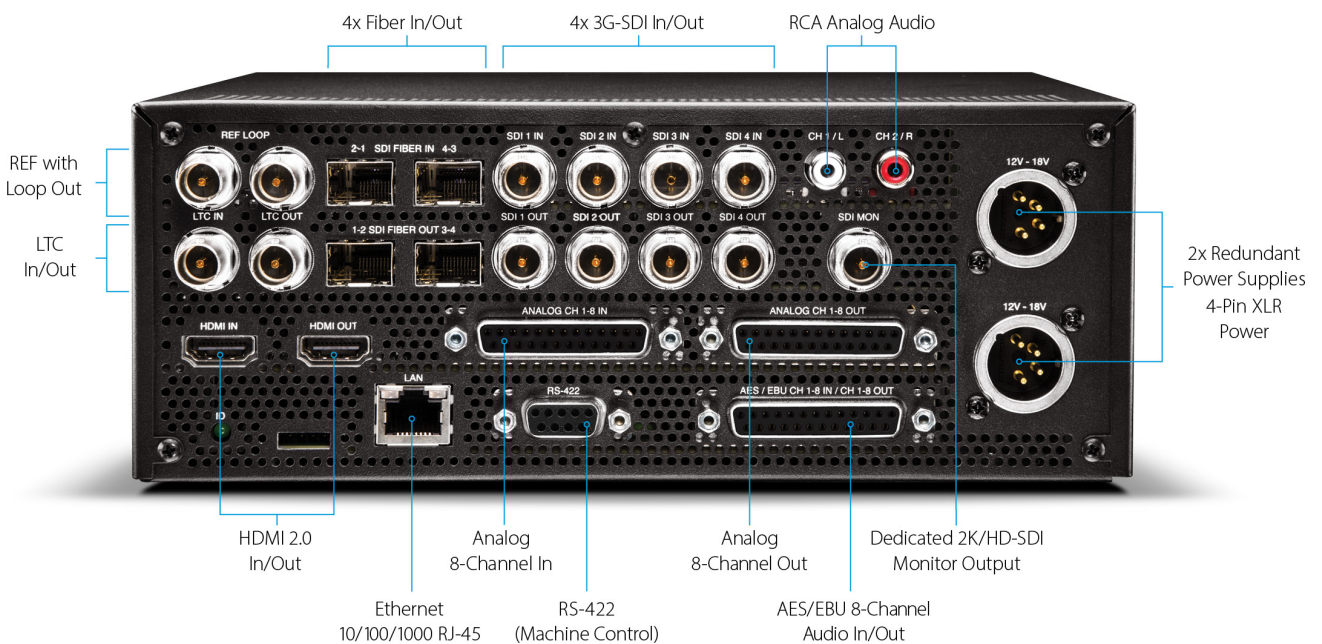
## Ki Pro Ultra Plus

Ki Pro Ultra Plus is a multi-channel Apple ProRes® recorder offering up to 4-Channels of simultaneous HD recording, or in Single-Channel mode a 4K/UltraHD/2K/HD Apple ProRes, Avid DNxHR® MXF for 4K/UltraHD or Avid DNxHD® MXF recorder and player. Ki Pro Ultra Plus supports the latest large raster high frame rate workflows, up to 4K 60p with HDR payout and recording.

3G-SDI, fiber and full HDMI 2.0 digital video connectivity plus 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 any environment.

<https://www.aja.com/products/ki-pro-ultra-plus>



## Video Formats

- Single Channel Mode:
  - (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
  - (4K) 4096 x 2160PsF 23.98, 24, 25, 29.97\*
  - (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
  - (UltraHD) 3840 x 2160PsF 23.98, 24, 25, 29.97\*
  - (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
- Multi-Channel Mode:
  - (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

\*Only 4x 1.5G-SDI, 10-bit 4:2:2 YCbCr, Square Division

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

## Codec Support

- Single Channel Mode:
  - Apple ProRes 4444 XQ, up to 2K/60 fps
  - Apple ProRes 4444, up to 30 fps
  - Apple ProRes 422 (HQ)
  - Apple ProRes 422
  - Apple ProRes 422 (LT)
  - Apple ProRes 422 (Proxy)
  - Avid DNxHD HQX (220x)\*
  - Avid DNxHD SQ (145)\*
  - Avid DNxHD LB (36)\*\*
  - Avid DNxHR HQX up to 4K/30 fps
  - Avid DNxHR SQ up to 4K/30 fps
  - Avid DNxHR LB up to 4K/30 fps
- Multi-Channel Mode:
  - Apple ProRes 4444, up to 30 fps
  - Apple ProRes 422 (HQ)
  - Apple ProRes 422
  - Apple ProRes 422 (LT)
  - Apple ProRes 422 (Proxy)

\*Avid DNxHD only supported for 1080 and 720 resolutions

\*\*Avid DNxHD 36 only supported for 1080p

## Codec Container

- Apple ProRes .MOV
- AVID DNx MXF or .MOV

## Removable Storage

- 2x slots, AJA SSD media Pak 256, Pak 512, Pak 1000, Pak 2000
  - Pak-Adapt-eSATA\*, Pak-Adapt-CFast\*

\*Only with AJA qualified media

## Video Input Digital

- 4x 3G-SDI, SMPTE-292/296/424, 10-bit (12-bit input supported)
- 4x Fiber LC\*, 3G-SDI, SMPTE-297, 10-bit
- 4K/UltraHD 4:2:2 or 4:4:4 (4x BNC or Fiber LC\*)
- Dual Link 4:2:2, 4:4:4 (2x BNC or Fiber LC\*)
- Single Link 4:2:2, 4:4:4 (1x BNC or Fiber LC\*)
- 1x HDMI standard type A connector
- HDMI v2.0
  - 4:4:4 RGB 8/10/12-bit (deep color)

- 4:2:2 YCbCr 8/10/12-bit
- 4:2:0 YCbCr 8-bit

\*Optional SFP Modules

## Video Output Digital

- 4x 3G-SDI, SMPTE-292/296/424, 10-bit
- 4x Fiber LC\* 3G-SDI, SMPTE-297, 10-bit
- 4K/UltraHD 4:2:2 or 4:4:4 (4x BNC or Fiber LC\*)
- Dual Link 4:2:2 or 4:4:4 (2x BNC or Fiber LC\*)
- Single Link 4:2:2 or 4:4:4 (1x BNC or Fiber LC\*)
- 1x HDMI standard type A connector
- HDMI v2.0
  - 4:4:4 RGB 8/10/12-bit (deep color)
  - 4:2:2 YCbCr 8/10/12-bit
  - 4:2:0 YCbCr 8-bit
- HDR Infoframe generation as defined in CTA-861.3 and HDMI v2.0a

\*Optional SFP Modules

## 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 via (1/2x DB-25 TASCAM pinout)

## Audio Input Analog

- 8-Channel, mappable, 24-bit A/D analog audio, 48 kHz sample rate (1x 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 (1/2x DB-25 TASCAM pinout)

## Audio Output Analog

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

## Recording Mode

- Multi-channel HD Apple ProRes recording (Pak 2000, Pak 1000, Pak 512 (R1), Pak 256 (R1) (R2))
- Single channel 4K/UltraHD/2K/HD recording

## Playback Mode

- One channel of 4K/UltraHD/2K/HD at a time

## Timecode

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

## Reference Input

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- External, 2x BNC
- Looping, nonterminating
- Blackburst or tri-level sync

## Network Interface

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- 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

## Machine Control

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- RS-422, 1x DE-9 female connector, Sony 9-pin protocol
- 9-pin D-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

## User Interface

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

## Closed Captioning Support

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- CEA-708, CEA-608

## File System Support

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- HFS+, exFAT

## Size (w x d x h)

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

## Weight

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- 5.6 lbs (2.6 kg)

## Power

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

## Environment

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