



Video Formats

- 525i 29.97
- 625i 25
- 720P 23.98, 25, 29.97, 50, 59.94, 60 (Note: 720p 23.98 (24), 720p 25 and 720p 29.97 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, 30
- 1080PsF 23.98, 24, 25*, 29.97* (Note: 25 and 29.97 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)

Removable Storage

- AJA Ki Stor modules - 1 slot
- ExpressCard/34 - 2 slots (Only Slot 1 active. See www.aja.com for supported media)

Video Input Digital

- SD/HD SDI, SMPTE-259/292/296, 10-bit
- Single Link 4:2:2 (1 x BNC)
- HDMI v1.1

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
- .5% 2T pulse response
- <2 ns Y/C delay inequity

Video Output Digital

- SD/HD SDI, SMPTE-259/292/296, 10-bit
 - Single Link 4:2:2 (1 x BNC)
 - HDMI v1.1
- Note: HDMI requires 1080i, 720p or 1080p to be active; HDMI does not provide support for PsF

Video Output Analog

- Composite (1x BNC)
- 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
- .5% 2T pulse response
- <1% Diff Phase
- <1% Diff Gain
- Note: Composite output requires that the Component Analog output be set to SD; composite output does not support HD
- 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
- .5% 2T pulse response
- <1 ns Y/C delay inequity

Audio Input Digital

- 2-channel or 8-channel user selectable
- 8-channel, 24-bit SMPTE-259 SDI embedded audio, 48kHz sample rate, Synchronous
- 2-channel, 24-bit HDMI embedded audio, 48kHz sample rate, Synchronous

Audio Input Analog

- 2-channel, 24-bit A/D analog audio, 48kHz sample rate, balanced (2 x XLR)
- Input level: Line, Mic, Mic+phantom 48Vdc
- +24dbu Full Scale Digital
- +/- 0.2db 20 to 20kHz Frequency Response
- 2-channel unbalanced (2 x RCA)

Audio Output Digital

- 8-channel, 24-bit SMPTE-259 SDI embedded audio, 48kHz sample rate, Synchronous
- 2-channel, 24-bit HDMI embedded audio, 48kHz sample rate, Synchronous

Audio Output Analog

- 2-channel, 24-bit D/A analog audio, 48kHz sample rate, balanced (2 x XLR)
- +24dbu Full Scale Digital (0dbFS)
- +/- 0.2db 20 to 20kHz Frequency Response
- 2-channel unbalanced (2 x RCA)
- Stereo unbalanced headphone (1 x 3.5mm mini jack)

Up-Conversion

- Hardware 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: 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: 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

Cross-conversion

- Hardware 10-bit
- 1080i to 720P
- 720P to 1080i

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|--------------------|---|---|-----|---|-----|---|-----|---|-----|---|---------------|---|-----|---|-----|---|-----|---|-----|-------|-----|
| Timecode | <ul style="list-style-type: none"> • SDI RP188/SMPTE 12M via SDI BNC • LTC input (1 x BNC) • LTC output (1x BNC) (Note: active during playback not during record or EE) | | | | | | | | | | | | | | | | | | | | |
| Network Interface | <ul style="list-style-type: none"> • 10/100/1000 Ethernet (RJ-45) • 802.11g Wireless • Embedded web server for remote control | | | | | | | | | | | | | | | | | | | | |
| Computer Interface | <ul style="list-style-type: none"> • IEEE1394b/FireWire800 | | | | | | | | | | | | | | | | | | | | |
| User Interface | <ul style="list-style-type: none"> • 2 x 20 character display, with dedicated buttons | | | | | | | | | | | | | | | | | | | | |
| Control | <ul style="list-style-type: none"> • LANC Loop (2 LANC Connectors) (Note: requires a LANC enabled camera) • Lens Tap (Note: Not activated) • IEEE-1394a/FireWire400 for control and timecode data | | | | | | | | | | | | | | | | | | | | |
| Machine Control | <ul style="list-style-type: none"> • RS-422, Sony 9-pin protocol. • 9-pin D-connector pinout is as follows: <table border="1"> <tr><td>1</td><td>GND</td></tr> <tr><td>2</td><td>RX-</td></tr> <tr><td>3</td><td>TX+</td></tr> <tr><td>4</td><td>GND</td></tr> <tr><td>5</td><td>No Connection</td></tr> <tr><td>6</td><td>GND</td></tr> <tr><td>7</td><td>RX+</td></tr> <tr><td>8</td><td>TX-</td></tr> <tr><td>9</td><td>GND</td></tr> <tr><td>Shell</td><td>GND</td></tr> </table> | 1 | GND | 2 | RX- | 3 | TX+ | 4 | GND | 5 | No Connection | 6 | GND | 7 | RX+ | 8 | TX- | 9 | GND | Shell | GND |
| 1 | GND | | | | | | | | | | | | | | | | | | | | |
| 2 | RX- | | | | | | | | | | | | | | | | | | | | |
| 3 | TX+ | | | | | | | | | | | | | | | | | | | | |
| 4 | GND | | | | | | | | | | | | | | | | | | | | |
| 5 | No Connection | | | | | | | | | | | | | | | | | | | | |
| 6 | GND | | | | | | | | | | | | | | | | | | | | |
| 7 | RX+ | | | | | | | | | | | | | | | | | | | | |
| 8 | TX- | | | | | | | | | | | | | | | | | | | | |
| 9 | GND | | | | | | | | | | | | | | | | | | | | |
| Shell | GND | | | | | | | | | | | | | | | | | | | | |
| Physical | <ul style="list-style-type: none"> • Width: 9.00" (22.86cm) • Depth: 6.12" (15.56cm) from front antenna cover to back of handles • Height: 3.25" (8.25cm) • Power: 100-240 VAC 50/60Hz (adapter), 12-18Vdc 4-pin XLR (chassis), 3.3A max, 30W typical • Weight: 3.7 lb. (1.67kg) | | | | | | | | | | | | | | | | | | | | |