

# Appendix A: Specifications

## Video Input

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<b>Digital:</b>	SD and HD-SDI (1xBNC), SMPTE-259/292/296 HDMI
<b>Analog:</b>	SD/HD Component (3xBNCs): SMPTE/EBU N10, Betacam 525 line, Betacam 525J, YPbPr 12-bit A/D, 2x oversampling

## Video Output (all simultaneously active)

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<b>Digital:</b>	SD and HD-SDI, SMPTE-259/292/296 (1xBNC) HDMI
<b>Analog:</b>	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

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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

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### 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

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10/100/1000 Ethernet (RJ45)

802.11b/g wireless transceiver

Embedded webserver for remote control

## Panel User Interface

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2 x 20 character display, with dedicated buttons

## Timecode

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LTC timecode input and output via BNC

SDI embedded RP188 timecode

## Control

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LANC Loop (2 LANC connectors)—not supported in Version 2.0

Lens Tap: connects to optional AJA Lens Tap intercept cable placed between camera body and lens for start/stop control—not supported in Version 2.0

IEEE-1394a/FireWire 400 for control and timecode data—not supported in Version 2.0

## Serial Port

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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

## FireWire

IEEE-1394b, FireWire™ 800Mb/s connects to Mac Pro or MacBook Pro (mount as harddrive)—not supported in Version 2.0

## 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

## Physical

Height: 3.25" (8.25 cm)

Width: 9.00" (22.86 cm)

Depth: 6.12" from front antenna cover to back of handles (15.56 cm)

Weight: 3.7 pounds (1.67 kg)

## Temperature

Operating Temperature Range: 5°C to 40°C

Safe Storage Temperature Range (power OFF): -20°C to 60°C

## Power

Voltage: 100-240 VAC (to supplied AC Adapter);  
12Vdc to power connector input on side of chassis:  
12 Vdc minimum  
18 Vdc maximum

Current: 3.3A (maximum)

Typical operating power: 30W