

SDI Video Input	1 x 10-bit 6G-SDI via BNC Connector  Supports 6 Gb/s 4:2:2 and 3 Gb/s 4:4:4
SDI Video Output	1 x 10-bit 6G-SDI via BNC Connector  Supports 6 Gb/s 4:2:2 and 3 Gb/s 4:4:4
Analog Video Input	Via included breakout cable: 1 x Component YUV on three BNC connectors (HD and SD) 1 x Composite 1 x S-Video
HDMI Video Input	1 x HDMI Type A
HDMI Video Output	1 x HDMI Type A
SDI Audio Input	16 Channels embedded in HD, 2K, and 4K; 8 Channels embedded in SD
SDI Audio Output	16 Channels embedded in HD, 2K, and 4K; 8 Channels embedded in SD
HDMI Audio Input	8 Channels embedded
HDMI Audio Output	8 Channels embedded
Analog Audio Input	4 Channels of professional balanced analog audio via 1/4" jack connectors (via included breakout cable)
Analog Audio Output	4 Channels of professional balanced analog audio via 1/4" jack connectors (via included breakout cable)

Channels 3 & 4 can switch to AES/EBU outputs

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AES/EBU Audio Input                      2 Channels unbalanced with sample rate converter (via included breakout cable)

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AES/EBU Audio Output                    2 Channels unbalanced (via included breakout cable)  
Analog outputs 3 and 4 can switch to AES/EBU outputs for audio 3 & 4 and 5 & 6 output, for a total of 6 AES/EBU output audio channels

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Sync Input                                    Blackburst in SD, 720p50, 720p59.94, 1080i50 and 1080i59.94 formats or Tri-Sync in any HD, 2K, or 4K format

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Device Control                              RS-422 deck control port (Sony-compatible)  
Serial ports TxRx direction reversible under software control

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Computer Interface                        PCI Express 4 lane generation 2, compatible with 4, 8, and 16 lane PCIe slots

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Codecs Supported                            AVC-Intra, AVCHD, Canon XF MPEG2, Digital SLR, DV-NTSC, DV-PAL, DVCPRO50, DVCPROHD, DPX, HDV, XDCAM EX, XDCAM HD, XDCAM HD422, Apple ProRes 4444, Apple ProRes 422 (HQ), Apple ProRes 422, Apple ProRes (LT), Apple ProRes 422 (Proxy), Uncompressed 8-bit 4:2:2, Uncompressed 10-bit 4:2:2, Uncompressed 10 bit 4:4:4

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Format Support                              **SD**  
625/25 PAL  
525/29.97 NTSC

**HD**

720p 50/59.94/60

1080i 50/59.94/60

1080PsF 23.98/24/25/29.97/30

1080p

23.98/24/25/29.97/30/50/59.94/60

**2K**

2048x1080p 23.98/24/25

**4K**

3840x2160p 23.98/24/25/29.97/30

4096x2160p 23.98/24/25

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SDI Compliance	SMPTE 259M, SMPTE 292M, SMPTE 296M SMPTE 372M, SMPTE 425M, ITU-R BT.656, and ITU-R BT.601
SDI Metadata Support	VITC read for 3:2 pulldown removal VANC capture and playback using up to 3 lines of video in file HD RP188 Closed captioning
Audio Sampling	24-bit, 48 kHz
Video Sampling	4:2:2 and 4:4:4 (4K is 4:2:2)
SDI Color Precision	10-bit
Color Space	REC 601, REC 709
HDMI Configuration	HDMI automatically configures to connected display
HDMI Resolution	Pixel-for-pixel up to 4K resolutions
HDMI Color Precision	8-bit RGB, 10-bit YUV

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HDCP Compatible	No. HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content.
Multiple Rate Support	SDI video connections are switchable between SD, HD, 3G, and 6G formats
Colorspace Conversion	Hardware based, real-time
HD Down Conversion	Built in, high quality hardware down converter outputs HD-SDI on SDI output, SD on SD-SDI, Composite and S-Video outputs when working in HD video formats on playback. Switch analog video to Component and choose HD or SD output. Selectable between letterbox, anamorphic 16:9 and center cut 4:3 styles.
HD Up Conversion	Built in, high quality hardware up-conversion from SD to 720HD or 1080HD on playback. Selectable between 4:3 pillarbox, 14:9 pillarbox and 16:9 zoom. HD outputs via HD-SDI, HDMI and component analog.
Cross Conversion	Built-in, high-quality hardware cross conversion from 1280x720 to 1920x1080 and 1920x1080 to 1280x720 on playback
Real-Time Effects	Apple Final Cut Pro internal effects Adobe Premiere Pro CC Mercury Playback Engine effects Avid Media Composer internal effects Blackmagic Design DaVinci Resolve

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Supported Operating Systems	Mac OS X 10.8 Mountain Lion, Max OS X 10.9 Mavericks or later Windows 7 or Windows 8 Linux
Supported Applications	Apple Final Cut Pro X, Adobe Premiere Pro CC, Avid Media Composer, Adobe After Effects, Nuke - The Foundry, DaVinci Resolve, Avid Pro Tools, Steinberg Cubase, Autodesk Smoke, Adobe Photoshop, Steinberg Nuendo, Avid Symphony, Avid News Cutter, Tools On Air just:in & live:cut & just:play & just:live, Softron OnTheAir, MovieRecorder and OnTheAir CG, Flash Media Encoder, Wirecast, Livestream Procaster, Resolume Avenue 4, Sony Vegas Pro, Corel VideoStudio Pro X4, CyberLink Power Director, MAGIX Video Pro X4, Vidcaster Pro & Studio & Broadcast, Uniplay, Playbox AirBox, CasparCG, Magicsoft CG, Xsplit Broadcaster, Imagine Communications Velocity & InfoCaster
Software Included	Media Express, Disk Speed Test, LiveKey, Blackmagic System Preferences and Blackmagic driver on Mac OS X  Media Express, Disk Speed Test, LiveKey, Blackmagic Control Panel and Blackmagic driver on Windows 7 and Windows 8  Media Express, Blackmagic Control Panel and Blackmagic driver on Linux
Internal Software Upgrade	Firmware built into software driver; loaded at system start or via updater software

EMC certifications	FCC, CE and C-Tick
Operating Temperature	32 to 104° F (5 to 40°C)
Storage Temperature	-4 to 113°F (-20 to 45°C)
Relative Humidity	0 to 90%, non-condensing
Length	5.55" (14.10 cm)
Weight	5.9 oz (167.3 g)

## Packaging Info

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Package Weight	1.645 lb
Box Dimensions (LxWxH)	7.05 x 5.45 x 3.6"