

SDI Video Input	1 x 10-bit 6G-SDI Supports 6 Gb/s 4:2:2 and 3 Gb/s 4:4:4
SDI Video Output	1 x 10-bit 6G-SDI Supports 6 Gb/s 4:2:2 and 3 Gb/s 4:4:4
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
Sync Input	Blackburst in SD, 720p50, 720p59.94, 1080i50 and 1080i59.94 formats or Tri-Sync in any HD, 2K, or UHD format
Device Control	RS-422 deck control port (Sony-compatible) Serial ports TxRx direction reversible under software control
Computer Interface	PCI Express 4 lane generation 2, compatible with 4, 8, and 16 lane PCIe slots
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

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

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)

Color Precision

10-bit

Color Space

REC 601, REC 709

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, hardware down converter outputs HD or SD on SDI output Selectable between letterbox, anamorphic 16:9, and center cut 4:3 styles
HD Up Conversion	Built in, 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.
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
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

3.75" (9.525 cm)

Weight

4.5 oz (127.6 g)

Packaging Info

Package Weight 0.45 lb

Box Dimensions (LxWxH) 5.5 x 5.3 x 1.1"
