



SECURITY SYSTEMS TECHNOLOGY

DeckLink HD Extreme

SD, HD, and 2K video card with SDI, HDMI and analog connections



Connections	DeckLink HD Extreme™
SDI Video Input	1 x 10 bit SD/HD and 2K switchable.
SDI Video Output	2 x 10 bit SD/HD and 2K switchable.
Supported Video formats	525 NTSC, 625 PAL, 720HD, 1080HD and 2K switchable.
Analog Video Input	Component YUV/S-Video/ Composite switchable between SD and HD in Component.
Analog Video Output	Component YUV/S-Video/Composite switchable between SD and HD in Component.
AES Audio Input	2 Channels unbalanced AES/EBU digital audio with sample rate converter.
AES Audio Output	2 Channels unbalanced AES/EBU digital audio.
SDI Audio Input	16 Channels in HD and 2K on Mac OS X™ and Windows™, 8 channels in standard definition. Full support for the maximum 6 channels in Adobe® Premiere Pro®.
SDI Audio Output	16 Channels in HD and 2K on Mac OS X™ and Windows™, 8 channels in standard definition. Full support for the maximum 6 channels in Adobe® Premiere Pro®.
Analog Audio Input	2 Channels of professional balanced XLR analog audio.
Analog Audio Output	2 Channels of professional balanced XLR analog audio
HDMI Audio Input	2 Channels.
HDMI Audio Output	2 Channels.
HDMI Video Input	Direct HDMI connection supports HDMI capture from HDMI compatible cameras, set top boxes, decks and video games.
HDMI Video Output	Direct HDMI connection supports HDMI digital compatible displays, such as a TV or video projector. Includes both audio and video.
HDMI Configuration	HDMI automatically configures to connected display.
HDMI Resolution	Pixel for pixel HD resolution input to connected device.
HDMI Color Precision	4:2:2 10 bit
Multiple Rate support	SDI and component analog video connections are switchable between standard definition and high definition. SDI switches between 270 Mb/s standard definition SDI, 1.5 Gb/s HD-SDI and 3 Gb/s HD and 2K SDI.
Sync Input	Blackburst in SD or TriSync in HD.

Device Control	Sony™ compatible RS422 deck control ports. Serial ports TxRx direction reversible under software control.
Settings Control	DeckLink System Preference (Mac OS X™) and Control Panel (Windows™).
Updates	Firmware for cards built into software driver. Loaded at system start, or via updater software.

Standards	
2K Format Support	2048 x 1556 at 24fps and 23.98fps capture and playback via SDI.
HD Format Support	1080PsF23.98/24, 1080i48, 1080i50, 1080i59.94, 720p59.94, 720p60 and 720p50.
SD Format Support	625/25 PAL, 525/29.97 NTSC and 525/23.98 NTSC.
SDI Compliance	SMPTE 292M, SMPTE 259M, SMPTE 296M, SMPTE 372M, SMPTE 425M-B, ITU-R BT.656 and ITU-R BT.601.
Video Sampling	4:2:2 and 4:4:4
Color Precision	4:2:2 and 4:4:4 10 bit
Color Space	4:2:2 YUV and 4:4:4 RGB
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.
Audio Sampling	Television standard sample rate of 48 kHz and 24 bit.
Card type	PCI Express 4 lane, compatible with 4,8,16 lane PCIe slots.

Processing	
Colorspace Conversion	Hardware based real time.
HD Down Conversion	Mac OS X™ and Windows™, simultaneous HD 1080 & SD on DeckLink HD Pro 4:4:4 PCI-X model only. Real-time rendering on all SD and HD cards. Support for HD 1080 and HD 720 to SD. Click here for the latest down-conversion features and details.
HD Up Conversion	Real-time rendering on all HD cards. Support for HD 720 to HD 1080 up conversion.
Real time effects	Apple Final Cut Pro™ internal effects on Mac OS X™. Adobe® Premiere Pro® internal effects in DV, MJPEG and uncompressed edit formats.

Extras	
Software Included	Deck Control, Disk Speed Test, LiveKey, FrameLink and Blackmagic driver.
Firmware Upgrade	Firmware for cards built into software driver. Loaded at system start, or via updater software.
Installation	PCI Express 4 lane, compatible with 4,8,16 lane PCI Express slots. Please see the full system requirements for Mac OS X™ and Windows™ .
Product Warranty	3 Year Limited Manufacturer's Warranty.