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DeckLink SDI 4K Technical Specifications

Description

DeckLink SDI 4K is perfect when you need an SDI only solution but demand the highest quality SDI capture and playback. You get incredible quality 6G-SDI on any PCI Express Mac, Windows or Linux computer. DeckLink SDI 4K is the world's smallest and most affordable multi rate SD/HD and Ultra HD SDI video card that lets you connect to any SD, HD-SDI, 2K and Ultra HD equipment. You also get RS-422 deck control, internal keying and reference input for a complete solution for editing, paint, design and more.

Connections

SDI Video Input

1 x 10-bit SD/HD/2K/4K. Supports 6 Gb/s 4:2:2 and 3 Gb/s 4:4:4

SDI Video Output

1 x 10-bit SD/HD/2K/4K. Supports 6 Gb/s 4:2:2 and 3 Gb/s 4:4:4

SDI Audio Input

16 Channels embedded in HD/2K/4K. 8 Channels embedded in SD.

SDI Audio Output

16 Channels embedded in HD/2K/4K. 8 Channels embedded in SD.

Sync Input

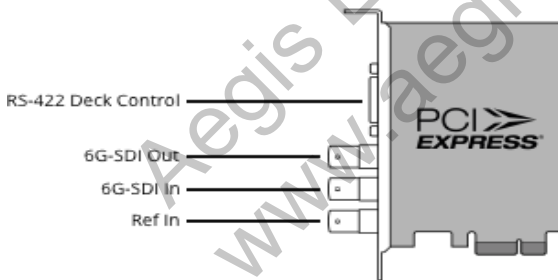
Blackburst in SD, 720p50, 720p59.94, 1080i50 and 1080i59.94 formats or Tri-Sync in any HD, 2K or UHD format.

Device Control

Sony™ compatible RS422 deck control ports. Serial ports TxRx direction reversible under software control.

Computer Interface

PCI Express 4 lane generation 1, compatible with 4,8 and 16 lane PCIe Slots.



Codecs

Supports: 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.

Software

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.

Physical Installation

PCI Express 4 lane generation 1, compatible with 4, 8, 16 lane PCI Express slots on Mac OS X, Windows and Linux. Please check the Support pages to see the full system requirements.

Software Applications



DaVinci Resolve



Fusion



Final Cut Pro X



Adobe Premiere Pro CC



Avid Media Composer



After Effects CC



Avid Pro Tools



Steinberg Cubase



Autodesk Smoke



Photoshop CC

Other supported applications include: Nuke, 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, Vidblaster Pro & Studio & Broadcast, Uniplay, Playbox AirBox, CasparCG, Magicsoft CG, Xsplit Broadcaster, Imagine Communications Velocity & InfoCaster.

Video Standards

SD Format Support

625/25 PAL, 525/29.97 NTSC.

HD Format Support

720p50, 720p59.94, 720p60, 1080PsF23.98, 1080p23.98, 1080PsF24, 1080p24, 1080PsF25, 1080p25, 1080PsF29.97, 1080p29.97, 1080PsF30, 1080p30, 1080i50, 1080p50, 1080i59.94, 1080p59.94, 1080i60, and 1080p60.

2K Format Support

2048 x 1080p23.98, 2048 x 1080p24, 2048 x 1080p25.

4K Format Support

3840x2160p23.98, 3840x2160p24, 3840x2160p25, 3840x2160p29.97, 3840x2160p30, 4096x2160p23.98, 4096x2160p24, 4096x2160p25.

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

Television standard sample rate of 48 kHz at 24 bit.

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/2K and UHD.

Processing

Colorspace Conversion

Hardware based real time.

HD Down Conversion

Built in, high quality 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

Software based up conversion from SD to 720HD or 1080HD on capture. Selectable between 4:3 pillarbox, 14:9 pillarbox and 16:9 zoom.

Cross Conversion

Software based cross conversion from 720HD to 1080HD and 1080HD to 720HD on playback.

Real Time Effects

Apple Final Cut Pro™ internal effects. Adobe Premiere Pro CC Mercury Playback Engine effects. Avid Media Composer™ internal effects. DaVinci Resolve.

Operating Systems



Mac OS X 10.9 Mavericks, Mac OS X 10.10 Yosemite or later.

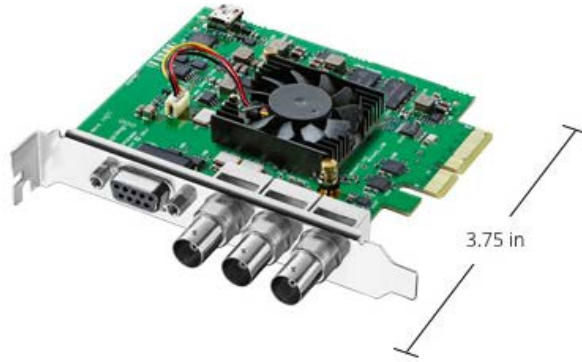


Windows 7 or Windows 8.



Linux

Physical
Specifications



4.5 oz

Environmental
Specifications

Operating Temperature
5° to 40° C (32° to 104° F)

Storage Temperature
-20° to 45° C (-4° to 113° F)

Relative Humidity
0% to 90% non-condensing

What's Included

DeckLink SDI 4K
SD Card

Warranty

3 Year Limited Manufacturer's Warranty.

Aegis Electronic Group
www.aegiselect.com