Blackmagicdesign

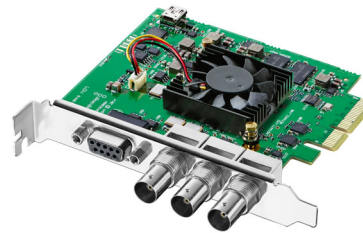# DeckLink SDI 4K

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.

$295

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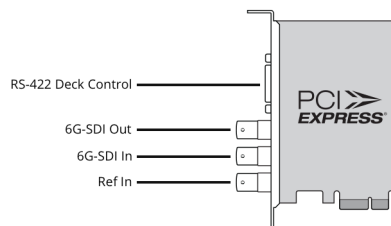16 Channels embedded in HD/2K/4K. 8 Channels embedded in SD.

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.

RS-422 Deck Control

6G-SDI Out

6G-SDI In

Ref In

PCI EXPRESS®

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	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 Live 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
525i29.97 NTSC, 625i25 PAL

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

2K Format Support
2K 23.98p, 2K 24p, 2K 25p

Ultra HD Format Support
2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30

4K Format Support
4K DCI 23.98p, 4K DCI 24p, 4K DCI 25p

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
Final Cut Pro X internal effects. 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, Mac OS X 10.11 El Capitan or later.
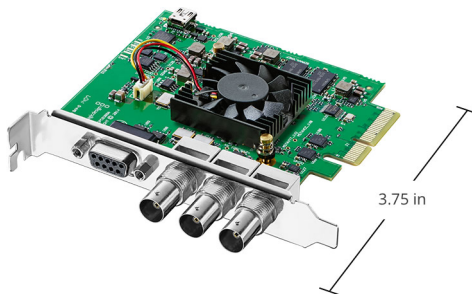
 Windows 8.1 or Windows 10.

 Linux

EMC Certifications

FCC, CE and C-Tick

Physical Specifications

3.75 in

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 with software and manual

Warranty

3 Year Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller