

DeckLink 4K Pro

Technical Specifications

Description

DeckLink 4K Pro is a high performance PCIe capture and playback card with advanced 12G-SDI for working with the latest high frame rate Ultra HD and DCI 4K formats at up to 60 frames per second! Ideal for both traditional 2D and high end 3D stereoscopic workflows, you get support for full resolution, deep color YUV and 12-bit RGB 4:4:4 images. DeckLink 4K Pro features two multi rate 12G-SDI inputs and outputs with support for 16 channels of embedded audio, along with a connection for reference input. Because the connections are multi rate, it works with virtually every SD, HD, Ultra HD and 4K format. DeckLink 4K Pro is perfect for high end film, television, and commercial editing, visual effects, and color grading projects.

Connections

SDI Video Input

2 x 12Gb/s SD/HD/2K/4K. Supports single link and dual link 4:2:2/4:4:4.

SDI Video Output

2 x 12Gb/s SD/HD/2K/4K. Supports single link and dual link 4:2:2/4:4:4.

SDI Audio Input

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

SDI Audio Output

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

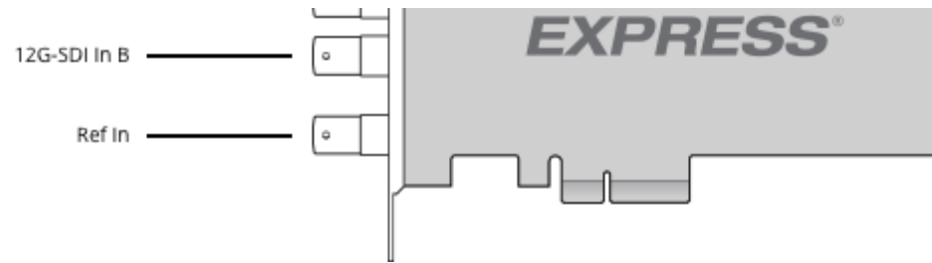
Sync Input

Black burst in SD, 720p50, 720p59.94, 1080i50 and 1080i59.94 formats or Tri-Sync in any HD format.

Computer Interface

PCI Express 8 lane generation 2, compatible with 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 Desktop Video and Blackmagic driver on Mac OS X. Media Express, Disk Speed Test, LiveKey, Blackmagic Desktop Video and Blackmagic driver on Windows 7 and Windows 8. Media Express, Blackmagic Desktop Video and Blackmagic driver on Linux.

Internal Software Upgrade

Firmware built into software driver. Loaded at system start or via updaters software.

Physical Installation

PCI Express 8 lane generation 2, compatible with 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

525/29.97 NTSC, 625/25 PAL.

HD Format Support

1280 x 720p50, 1280 x 720p59.94,
1280 x 720p60, 1920 x 1080i50,
1920 x 1080i59.94, 1920 x 1080i60,
1920 x 1080PsF23.98, 1920 x 1080PsF24,
1920 x 1080PsF25, 1920 x 1080PsF29.97,
1920 x 1080PsF30, 1920 x 1080p23.98,
1920 x 1080p24, 1920 x 1080p25,
1920 x 1080p29.97, 1920 x 1080p30,
1920 x 1080p50, 1920 x 1080p59.94,
1920 x 1080p60.

2K Format Support

2048 x 1080PsF23.98, 2048 x 1080PsF24,
2048 x 1080PsF25, 2048 x 1080p23.98,
2048 x 1080p24, 2048 x 1080p25.

4K Format Support

3840 x 2160p23.98, 3840 x 2160p24,
3840 x 2160p25, 3840 x 2160p29.97,
3840 x 2160p30, 3840 x 2160p50,
3840 x 2160p59.94, 3840 x 2160p60,
4096 x 2160p23.98, 4096 x 2160p24,
4096 x 2160p25.

SDI Compliance

SMPTE 259M, SMPTE 292M,
SMPTE 296M SMPTE 372M,
SMPTE 425M Level A and Level B,
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.

SDI Video Sampling

4:2:2, 4:4:4 and 4:4:4:4

SDI Color Precision

8, 10-bit YUV 4:2:2 and 8, 10, 12-bit RGB
4:4:4 in HD, 2K and 4K

Color Space

REC 601, REC 709

Multiple Rate Support

SDI video connections are switchable
between SD/HD/2K and 4K.

Processing

Colorspace Conversion

Hardware based real time on output.

3D Processing

Left eye/right eye dual stream capture & playback.

Ultra HD to HD Down Conversion

Built in, high quality hardware down converter outputs Ultra HD to HD or HD to SD down converted signal on SDI B. Down converted SD 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 zoom and 16:9 zoom.

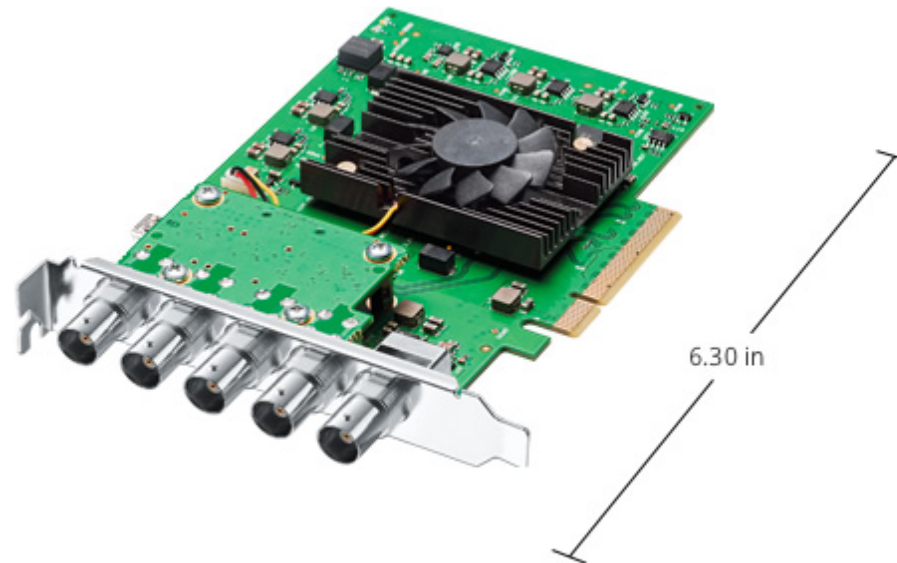
HD Cross Conversion

Built-in, high quality hardware cross conversion from 720HD to 1080HD, 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.

Physical Specifications



8.21 oz

Operating Systems

EMC Certifications

EMC, UL, FCC, CE, C-Tick and KCC.

Environmental Specifications

Operating Temperature
5° to 40° C (41° to 104° F)

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

Relative Humidity
0% to 90% non-condensing

What's Included

DeckLink 4K Pro
Software SD Card

Warranty

3 Year Limited Manufacturer's Warranty.
