DeckLink 4K Extreme 12G



$1,245

Advanced digital cinema capture card featuring full frame DCI 4K input and output via 12G-SDI! You get dual link multi rate 12G-SDI connections that work with SD, HD and Ultra HD even in Ultra HD 60p, as well as full frame DCI 4K at 4096 x 2160 resolution up to 25p! Capture 10-bit YUV or full color bandwidth 12-bit RGB. Includes AES/EBU audio, up, down and cross conversion, plus built in 3D stereoscopic output at full bandwidth 4:4:4:4 RGB! No other capture and playback card supports more video formats and video connections!

Connections

SDI Video Inputs
2 x 12Gb/s SD/HD/2K/4K. Supports single/dual link 4:2:2/4:4:4. 2D/3D switchable.

SDI Video Outputs
2 x 12Gb/s SD/HD/2K/4K. Supports single/dual link 4:2:2/4:4:4. 2D/3D switchable.

Analog Video Inputs
1 x Component YUV on 3 BNCs switchable to S-Video or Composite. Component supports HD and SD.

Analog Video Outputs
1 x Component YUV on 3 BNCs switchable to S-Video and Composite. Component supports HD and SD.

Analog Audio Inputs
2 Channels of professional balanced analog audio via XLR connectors.

Analog Audio Outputs
2 Channels of professional balanced analog audio via XLR connectors.

Optical Fiber Inputs/Outputs (Optional)
2 x 12Gb/s Optical Fiber.

AES/EBU Audio Inputs
2 Channels unbalanced with sample rate converter.

AES/EBU Audio Outputs
2 Channels unbalanced.

SDI Audio Inputs
16 Channels embedded in SD/HD/2K/4K.

SDI Audio Outputs
16 Channels embedded in SD/HD/2K/4K.

HDMI Video Inputs
HDMI type A connector with support for 2160p60.

HDMI Video Outputs
HDMI type A connector with support for 2160p60.

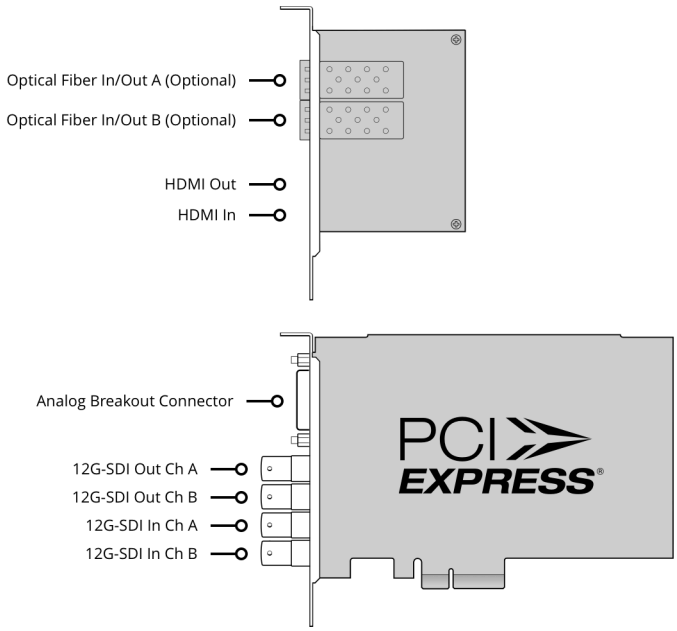
HDMI Audio Inputs
8 Channels embedded in SD/HD/4K

HDMI Audio Outputs
8 Channels embedded in SD/HD/4K.

Sync Input
Tri-Sync or Black Burst.

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

Computer Interface
PCI Express 8 lane generation 2, compatible with 8 and 16 lane PCI Express slots with HDMI or SDI mezzanine card.



Supported Codecs

AVC-Intra, AVCHD, Canon XF MPEG2, Digital SLR, DV-NTSC, DV-PAL, DVCPRO50, DVCPROHD, DPX, HDV, XDCAM EX, XDCAM HD, XDCAM HD422, DNxHR & DNxHD, 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
DaVinci Resolve, Media Express, Disk Speed Test, LiveKey, Blackmagic Desktop Video Utility and Blackmagic driver on Mac OS and Windows. Media Express, Blackmagic Desktop Video Utility 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 8 lane generation 2, compatible with 8 and 16 lane PCI Express slots on Mac OS, Windows and Linux. Mac OS systems require a Mac Pro computer with PCI Express slots. 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



Adobe After Effects CC



Avid Pro Tools



Steinberg Cubase



Autodesk Smoke



Adobe Photoshop CC

Other supported applications include: The Foundry Nuke, Grass Valley Edius, Steinberg Nuendo, Sony Catalyst Production Suite, Tools On Air Just: Play & Live & In, Softron MovieRecorder & MReplay, Adobe Flash Media Live Encoder, Telestream Wirecast, Resolume Arena, Magix Vegas Pro & Movie Edit Pro Premium, Corel VideoStudio Pro, CyberLink PowerDirector, Vidblaster X & Studio & Broadcast, Uniplay One & CG, CasparCG Server, Magicsoft CG, Xsplit Broadcaster, Imagine Communications Velocity & InfoCaster, DevTek Easy Media Suite, Metus Ingest, Boinx Software MimoLive, Cinegy Capture Pro, vMix Live, Renewed Vision ProPresenter, Ventuz Director, Class X Liveboard & Coral CG, Glookast Capturer, Open Broadcaster Software Studio, Nautilus NEMO3D, Derivative TouchDesigner, Assimilate Scratch, Burst Video WebClip2Go & [REC]Marker, Autodesk Flame, Zoom.
These are third party applications and support may vary, check with your software vendor.

Standards

SD Video Standards

525i59.94 NTSC, 625i50 PAL

HD Video Standards

720p50, 720p59.94, 720p60
1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p47.95*, 1080p48*, 1080p50, 1080p59.94, 1080p60
1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30
1080i50, 1080i59.94, 1080i60

2K Video Standards (SDI Only)

2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI, 2Kp29.97 DCI, 2Kp30 DCI, 2Kp47.95 DCI, 2Kp48 DCI, 2Kp50 DCI, 2Kp59.94 DCI, 2Kp60 DCI
2KPsF23.98 DCI, 2KPsF24 DCI, 2KPsF25 DCI, 2KPsF29.97 DCI, 2KPsF30 DCI

Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p47.95*, 2160p48*, 2160p50, 2160p59.94, 2160p60

4K Video Standards

4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI, 4Kp29.97 DCI, 4Kp30 DCI, 4Kp47.95 DCI*, 4Kp48 DCI*, 4Kp50 DCI, 4Kp59.94 DCI, 4Kp60 DCI

3D SDI Video Standards

720p50, 720p59.94, 720p60
1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p47.95, 1080p48
1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30
1080i50, 1080i59.94, 1080i60
2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30
2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI, 2Kp29.97 DCI, 2Kp30 DCI, 2Kp47.95 DCI, 2Kp48 DCI
2KPsF23.98 DCI, 2KPsF24 DCI, 2KPsF25 DCI, 2KPsF29.97 DCI, 2KPsF30 DCI, 2KPsF47.95 DCI, 2KPsF48 DCI
4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI, 4Kp29.97 DCI, 4Kp30 DCI
*SDI only

3D HDMI Video Standards

720p50, 720p59.94, 720p60
1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30,
1080i50, 1080i59.94, 1080i60

SDI Compliance

SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 425M, SMPTE 435, SMPTE 2081, SMPTE 2082, SMPTE 2082-10, SMPTE 2108-1, ITU-R BT.656 and ITU-R BT.601.

SDI Metadata Support

RP 188/SMPTE 12M-2 and closed captioning.

Audio Sampling

Television standard sample rate of 48 kHz at 24-bit.

SDI Video Sampling

4:2:2, 4:4:4

SDI Color Precision

8, 10, 12-bit RGB 4:4:4 in all modes up to UHD 30p, and 8, 10-bit YUV 4:2:2 in all modes

Color Space

REC 601, REC 709, REC 2020

HDR Support

HDR metadata packing, HLG and PQ transfer characteristics. (HDMI supports static HDR metadata only)

HDMI Video Sampling

4:4:4, 4:2:2 and 4:2:0

HDMI Color Precision

8, 10 and 12-bit (Deep Color).

HDMI Configuration

HDMI 2.0b supports Deep Color and HDR. Automatically configures to connected display.

Multiple Rate Support

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

Copy Protection

HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content.

Processing

Ultra HD Down Conversion

Built in, high quality hardware down converter outputs Ultra HD to HD with down converted signal on SDI outputs C & D and HDMI output when connected to an HD only TV.

HD to SD Down Conversion

HD to SD with down converted signal on SDI output B, Component and Composite NTSC/PAL. SD output selectable between letterbox, anamorphic 16:9 and center cut 4:3.

HD Up Conversion

Built in, high quality software up converter from SD to HD on input. Selectable between 16:9 Zoom or anamorphic.

HD Cross Conversion

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

Real Time Effects

DaVinci Resolve, Final Cut Pro X internal effects. Premiere Pro CC Mercury Playback Engine effects. Avid Media Composer internal effects.

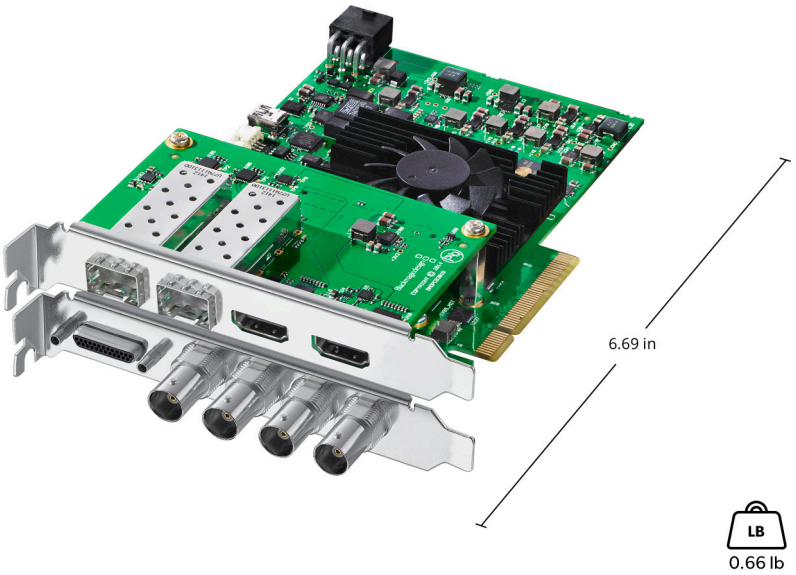
Colorspace Conversion

Hardware based real time on output.

3D Processing

Dual stream and frame packed capture and playback.

Physical Specifications



Operating Systems

Mac 15.0 Sequoia,
Mac 26.0 Tahoe or later.

Windows 10, 64-bit.
Windows 11.

Linux

Power Requirements

Power Consumption
30 W

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 Extreme 12G
HDMI mezzanine card
Breakout cable for analog and RS-422 control.
External power cable

Warranty

3 Year Limited Manufacturer's Warranty.

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