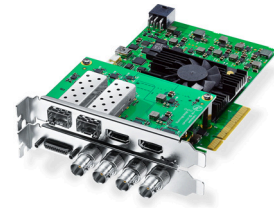


DeckLink 4K Extreme 12G



\$1,095

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

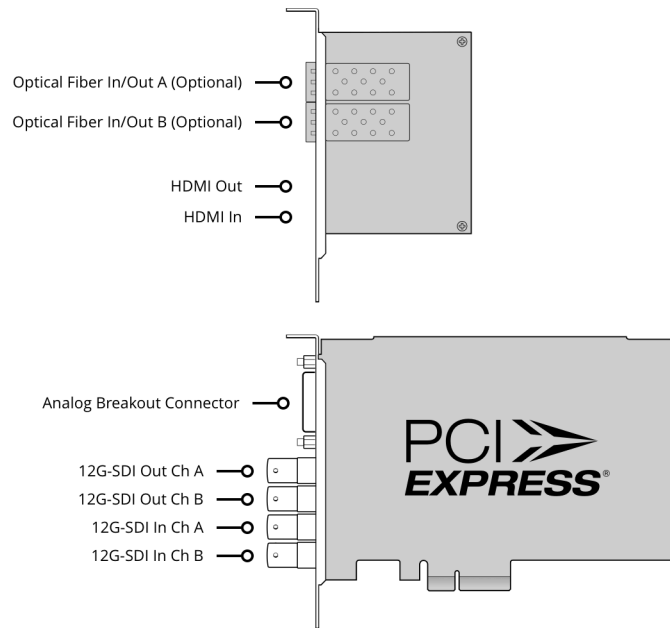
Tri-Sync or Black Burst.

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.

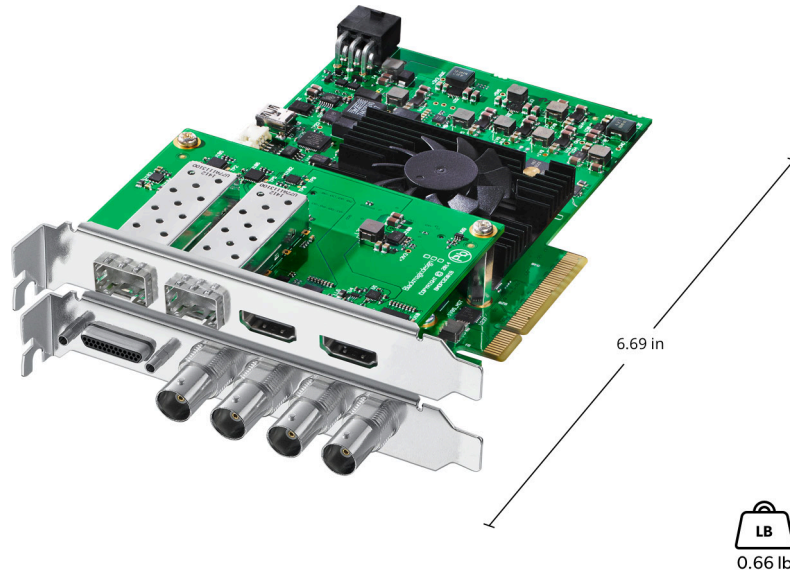
Colorspace Conversion

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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