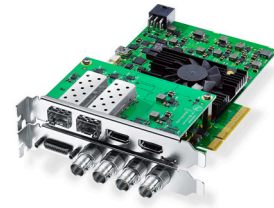


## DeckLink 4K Extreme 12G



11 350 kr

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

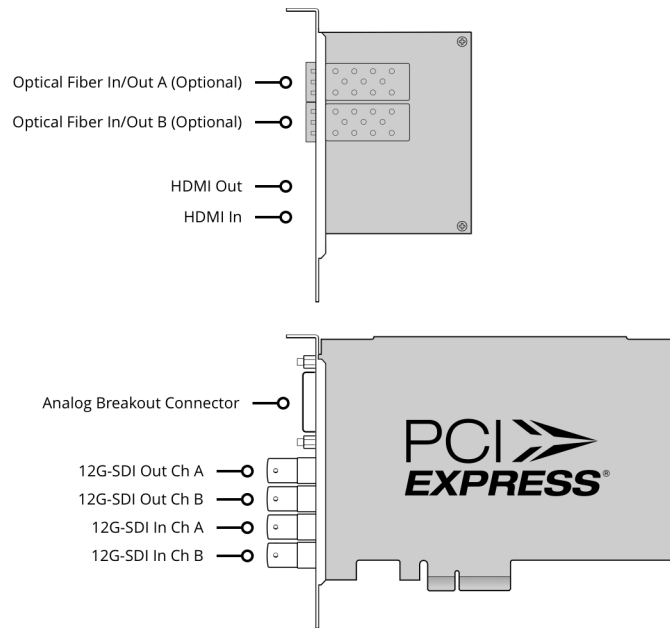
Tri-Sync or Black Burst.

#### 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.

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## 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.

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## 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.

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## 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

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### 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.

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## 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

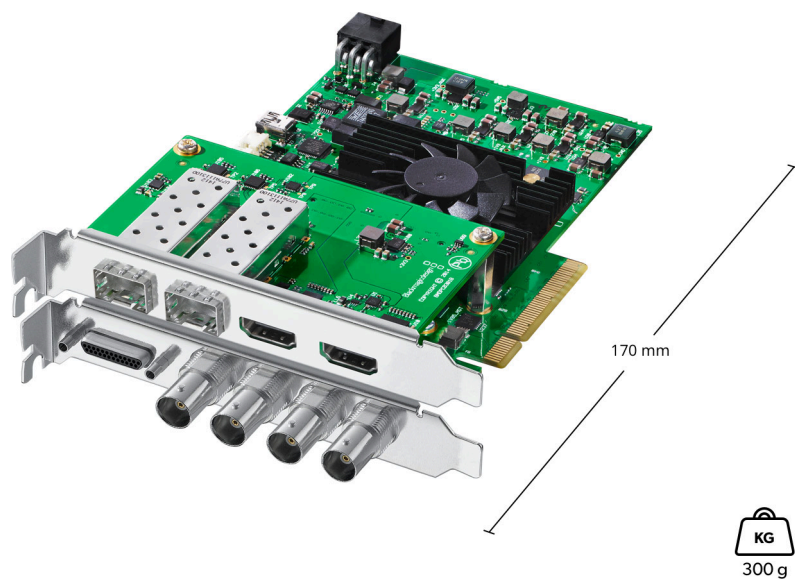
Hardware based real time on output.

### 3D Processing

Dual stream and frame packed  
capture and playback.

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# Physical Specifications



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# Operating Systems



Mac 14.0 Sonoma,  
Mac 15.0 Sequoia or later.



Windows 10, 64-bit.  
Windows 11.



Linux

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# Power Requirements

## Power Consumption

30 W

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# 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

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## What's Included

DeckLink 4K Extreme 12G

HDMI mezzanine card

Breakout cable for analog and RS-422 control.

External power cable

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## Warranty

3 Year Limited Manufacturer's Warranty.

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