

## DeckLink Studio 4K



If you work with a wide range of analog video and audio gear, and need to move seamlessly between SD, HD, 2K and Ultra HD, then DeckLink Studio 4K is perfect! DeckLink Studio 4K includes a massive number of analog and digital video connections including SD/HD/Ultra HD 6G-SDI, HDMI 1.4b, SD/HD component, composite, S-video, 4 ch balanced analog audio, 2 ch AES/EBU switchable to 6 ch out, Black Burst and Tri-Sync reference input, RS-422 deck control connections, keying in SD and a hardware down converter. Perform editing, paint and broadcast design and more with the ultimate future proof design!

### Connections

#### SDI Video Inputs

1 x 10-bit SD/HD/2K/4K. Supports 6G 4:2:2 and 3G 4:4:4.

#### SDI Video Outputs

1 x 10-bit SD/HD/2K/4K. Supports 6G 4:2:2 and 3G 4:4:4.

#### Analog Video Inputs

1 x Component YUV on 3 BNCs, 1 x Composite, 1 x S-Video. Component supports HD and SD.

#### Analog Video Outputs

1 x Component YUV on 3 BNCs, 1 x Composite, 1 x S-Video, 1 x SD-SDI. Component supports HD and SD.

#### Analog Audio Inputs

4 Channels of professional balanced analog audio via 1/4 inch jack connectors.

#### Analog Audio Outputs

4 Channels of professional balanced analog audio via 1/4 inch jack connectors. Channels 3 & 4 can switch to AES/EBU outputs.

#### AES/EBU Audio Inputs

2 Channels unbalanced with sample rate converter.

#### AES/EBU Audio Outputs

2 Channels unbalanced. Analog outputs 3 and 4 can switch to AES/EBU outputs for audio 3 & 4 and 5 & 6 output. This provides a total of 6 AES/EBU output audio channels when using this feature.

#### SDI Audio Inputs

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

#### SDI Audio Outputs

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

#### HDMI Video Inputs

1 x HDMI type A connector.

#### HDMI Video Outputs

1 x HDMI type A connector.

#### HDMI Audio Inputs

8 Channels embedded in SD, HD, 4K.

#### HDMI Audio Outputs

8 Channels embedded in SD, HD, 4K

#### Sync Input

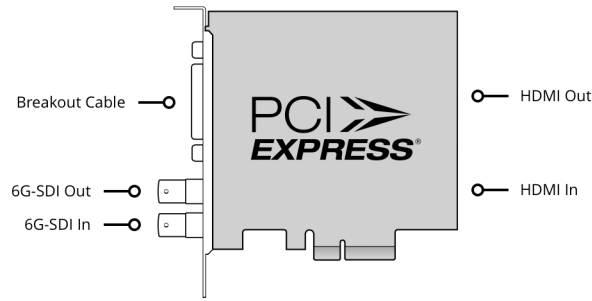
Tri-Sync or Black Burst.

#### Device Control

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

#### Computer Interface

PCI Express 4 lane generation 2, compatible with 4,8 and 16 lane PCI Express slots.



## Supported Codecs

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, DNxHR & DNxHD,  
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

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 4 lane generation 2,  
compatible with 4, 8, 16 lane PCI  
Express slots on Mac OS, Windows  
and Linux. 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, Livestream Producer, 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, Burst Video WebClip2Go & [REC]Marker, Autodesk Flame, Zoom.

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## Video Standards

### SD Video Standards

525i59.94 NTSC, 625i50 PAL

### HD Video Standards

720p50, 720p59.94, 720p60

1080p24, 1080p25, 1080p29.97,

1080p30, 1080p50, 1080p59.94,

1080p60

1080PsF23.98, 1080PsF24,

1080PsF25, 1080PsF29.97, 1080PsF30

1080i50, 1080i59.94, 1080i60

### 2K Video Standards (SDI Only)

2K DCI 23.98p, 2K DCI 24p, 2K DCI

25p

### Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,

2160p29.97, 2160p30

### 4K Video Standards

4K DCI 23.98p, 4K DCI 24p, 4K DCI

25p\*

\* SDI Only

### SDI Compliance

SMPTE 292M, SMPTE 259M, SMPTE

296M, SMPTE 372M, SMPTE 425M,

SMPTE 2081, ITU-R BT.656 and ITU-R

BT.601.

### SDI Metadata Support

RP 188/SMPTE 12M-2 and closed

captioning.

### SDI Video Sampling

4:2:2, 4:4:4\*

\*4K is 4:2:2.

### SDI Color Precision

8, 10-bit RGB 4:4:4 in all modes up to

1080p25 2K DCI, 8, 10-bit YUV 4:2:2 in

all modes.

### Color Space

REC 601, REC 709

### HDMI Video Sampling

4:4:4, 4:2:2 & 4:2:0

### HDMI Color Precision

10-bit RGB HD

10-bit YUV in HD and 4K

### HDMI Configuration

HDMI 1.4b. Automatically configures

to connected display.

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**Audio Sampling**

Television standard sample rate of 48 kHz at 24 bit.

**Color Precision**

10-bit

**Color Space**

REC 601, REC 709

**HDMI Resolution**

Pixel for pixel up to 4K resolutions.

**Multiple Rate Support**

HDMI and SDI video connections are switchable between SD/HD/2K and UHD. 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****HD Down Conversion**

Built in, high quality hardware down converter outputs HD-SDI on SDI output, SD on SD-SDI, Composite and S-Video outputs when working in HD video formats on playback. Switch analog video to Component and choose HD or SD 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.

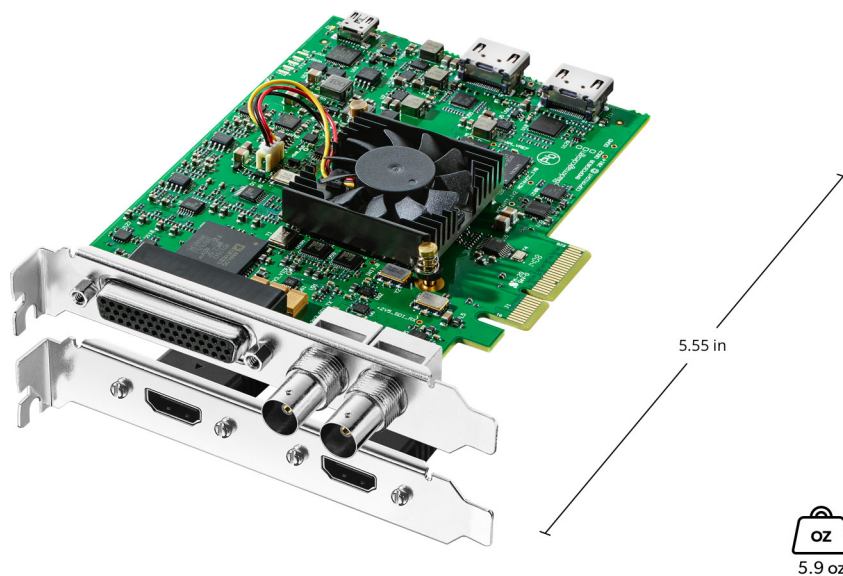
**Real Time Effects**

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

**Colorspace Conversion**

Hardware based real time.

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**Physical Specifications**

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## Operating Systems



Mac 10.14 Mojave,  
Mac 10.15 Catalina or later.



Windows 8.1 and 10, both 64-bit.



Linux

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## Power Requirements

### Power Consumption

22 Watts

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## 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

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## What's Included

DeckLink Studio 4K  
Breakout cable for analog and RS-422 control.  
HDMI bracket

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## Warranty

3 Year Limited Manufacturer's Warranty.

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