DeckLink Studio 4K



$725

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.

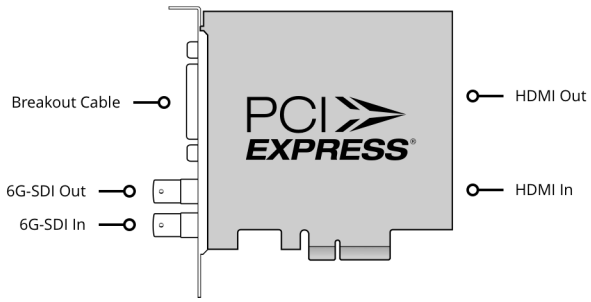
HDMI Audio Inputs
8 Channels embedded in SD, HD, 4K.

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.

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.

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, Burst Video WebClip2Go & [REC]Marker, Autodesk Flame, Zoom.
These are third party applications and support may vary, check with your software vendor.

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.

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.

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.

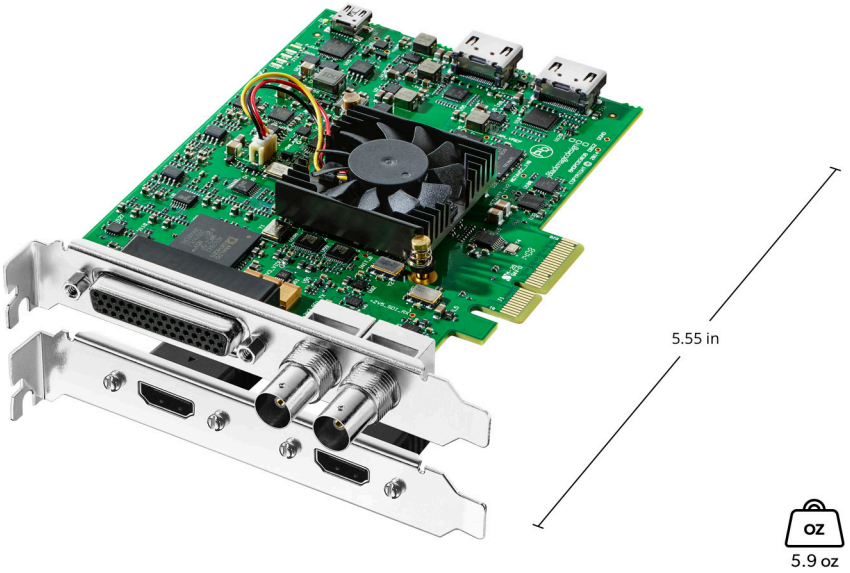
HD Up Conversion
Built in, high quality software up converter from SD to HD on input. Selectable between 16:9 Zoom or anamorphic.

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.

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
22 W

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

What's Included

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

Warranty

3 Year Limited Manufacturer's Warranty.

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