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/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

SDI Video Outputs

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.

$595
Supported Codecs


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


Video Standards

SD Video Standards
525i 59.94 NTSC, 625i 50 PAL

HD Video Standards
720p 50, 720p 59.94, 720p 60
1080p 24, 1080p 25, 1080p 29.97,
1080p 30, 1080p 50, 1080p 59.94,
1080p 60
1080PsF 23.98, 1080PsF 24,
1080PsF 25, 1080PsF 29.97, 1080PsF 30
1080i 50, 1080i 59.94, 1080i 60

2K Video Standards (SDI Only)
2K DCI 23.98p, 2K DCI 24p, 2K DCI 25p

Ultra HD Video Standards
2160p 23.98, 2160p 24, 2160p 25,
2160p 29.97, 2160p 30

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**
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.
Operating Systems

- Mac 10.14 Mojave, Mac 10.15 Catalina or later.
- Windows 7, 8.1 and 10, all 64-bit.
- Linux

Power Requirements

**Power Consumption**
22 Watts

EMC Certifications

FCC, CE and C-Tick

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
- SD card with software and manual
- Breakout cable for analog and RS-422 control.
- HDMI bracket

Warranty

3 Year Limited Manufacturer's Warranty.
Blackmagic Design Authorized Reseller