## 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

<table>
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<tbody>
<tr>
<td><strong>Analog Video Inputs</strong></td>
<td>1 x Component YUV on 3 BNCs, 1 x Composite, 1 x S-Video. Component supports HD and SD.</td>
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<tr>
<td><strong>Analog Video Outputs</strong></td>
<td>1 x Component YUV on 3 BNCs, 1 x Composite, 1 x S-Video, 1 x SD-SDI. Component supports HD and SD.</td>
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<tr>
<td><strong>Analog Audio Inputs</strong></td>
<td>4 Channels of professional balanced analog audio via 1/4 inch jack connectors.</td>
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<td>4 Channels of professional balanced analog audio via 1/4 inch jack connectors. Channels 3 &amp; 4 can switch to AES/EBU outputs.</td>
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<tr>
<td><strong>AES/EBU Audio Inputs</strong></td>
<td>2 Channels unbalanced with sample rate converter.</td>
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<td><strong>AES/EBU Audio Outputs</strong></td>
<td>2 Channels unbalanced. Analog outputs 3 and 4 can switch to AES/EBU outputs for audio 3 &amp; 4 and 5 &amp; 6 output. This provides a total of 6 AES/EBU output audio channels when using this feature.</td>
</tr>
<tr>
<td><strong>SDI Audio Inputs</strong></td>
<td>16 Channels embedded in HD/2K/4K. 8 Channels embedded in SD.</td>
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<td><strong>HDMI Video Inputs</strong></td>
<td>1 x HDMI type A connector.</td>
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<td><strong>HDMI Audio Inputs</strong></td>
<td>8 Channels embedded in SD, HD, 4K.</td>
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<td><strong>Sync Input</strong></td>
<td>Tri-Sync or Black Burst.</td>
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<tr>
<td><strong>Device Control</strong></td>
<td>Sony™ compatible RS422 deck control ports. Serial ports TxRx direction reversible under software control.</td>
</tr>
<tr>
<td><strong>Computer Interface</strong></td>
<td>PCI Express 4 lane generation 2, compatible with 4, 8 and 16 lane PCI Express slots.</td>
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</tbody>
</table>
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**
- 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**

**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.
<table>
<thead>
<tr>
<th><strong>Color Precision</strong></th>
<th><strong>Multiple Rate Support</strong></th>
<th><strong>Copy Protection</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>10-bit</td>
<td>HDMI and SDI video connections are switchable between SD/HD/2K and UHD. Component analog video connections are switchable between SD and HD.</td>
<td>HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content.</td>
</tr>
</tbody>
</table>

**Color Space**
REC 601, REC 709

**HDMI Resolution**
Pixel for pixel up to 4K resolutions.

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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**

![DeckLink Studio 4K - Technical Specifications](image.png)
Operating Systems

Mac 10.13 High Sierra, Mac 10.14 Mojave 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

<table>
<thead>
<tr>
<th>Operating temperature</th>
<th>Storage temperature</th>
<th>Relative Humidity</th>
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</thead>
<tbody>
<tr>
<td>5° to 40° C (32° to 104° F)</td>
<td>-20° to 45° C (-4° to 113° F)</td>
<td>0% to 90% non-condensing</td>
</tr>
</tbody>
</table>

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