

## DeckLink 4K Extreme



DeckLink 4K Extreme features a high performance design for working in the highest film quality! Get 4 times the resolution of 1080 HD with full Ultra HD 4K capture and playback using 6G-SDI and HDMI 4K support. DeckLink 4K Extreme includes single and dual channel SDI connections for both regular 2D and 3D stereoscopic workflows as well as full resolution color RGB 4:4:4 capture and playback. Includes dual link 6G-SDI, HDMI 3D/4K and analog component, composite, S-video connections. Work in SD, HD and Ultra HD 4K. Also includes AES and analog balanced audio, 16 channel SDI audio, genlock, deck control, broadcast quality up, down and cross conversion, plus built in SD/HD internal keyer.

**\$995**

### Connections

**SDI Video Input**

2 x 10-bit SD/HD/2K/4K and 2D/3D switchable. Supports 3Gb/s and 6Gb/s single link and dual link.

**SDI Video Output**

2 x 10-bit SD/HD/2K/4K and 2D/3D switchable. Supports 3Gb/s and 6Gb/s single link and dual link.

**Analog Video Input**

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

**Analog Video Output**

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

**HDMI Video Input**

1 x HDMI type A connector including 3D frame packing support and Ultra HD support.

**HDMI Video Output**

1 x HDMI type A connector including 3D frame packing support and Ultra HD support.

**Analog Audio Input**

2 Channels of professional balanced analog audio via XLR connectors.

**Analog Audio Output**

2 Channels of professional balanced analog audio via XLR connectors.

**AES/EBU Audio Input**

2 Channels unbalanced with sample rate converter.

**AES/EBU Audio Output**

2 Channels unbalanced.

**SDI Audio Input**

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

**SDI Audio Output**

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

**HDMI Audio Input**

8 Channels embedded in SD/HD/4K.

**HDMI Audio Output**

8 Channels embedded in SD/HD/4K.

**Sync Input**

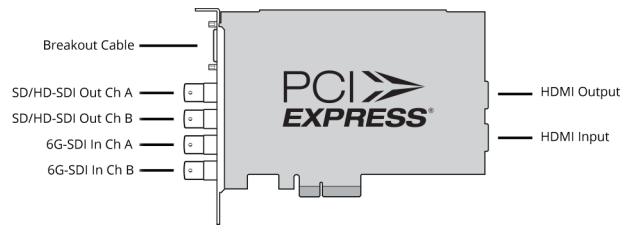
Black burst in SD, 720p50, 720p59.94, 1080i50 and 1080i59.94 formats or Tri-Sync in any HD format, 2K or 4K format

**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 PCIe



## Codecs

Supports: 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, 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 and Blackmagic driver on Mac OS X. Media Express, Disk Speed Test, LiveKey, Blackmagic Desktop Video and Blackmagic driver on Windows 7 and Windows 8. Media Express, Blackmagic Desktop Video 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 X, Windows and Linux. Mac OS X systems require a Mac Pro computer with PCI Express slots. Please check the Support pages to see the full system requirements.

## Software Applications



DaVinci Resolve



Fusion



Final Cut Pro X



Premiere Pro CC



Avid Media Composer



After Effects CC



Avid Pro Tools



Steinberg Cubase



Autodesk Smoke



Photoshop CC

**Other supported applications include:** Nuke, Steinberg Nuendo, Avid Symphony, Avid News Cutter, Tools On Air just:in & live:cut & just:play & just:live, Softron OnTheAir, MovieRecorder and OnTheAir CG, Flash Media Live Encoder, Wirecast, Livestream Procaster, Resolume Avenue 4, Sony Vegas Pro, Corel VideoStudio Pro X4, CyberLink Power Director, MAGIX Video Pro X4, Vidblaster Pro & Studio & Broadcast, Uniplay, Playbox AirBox, CasparCG, Magicsoft CG, Xsplit Broadcaster, Imagine Communications Velocity & InfoCaster.

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## Video Standards

### SD Format Support

525i29.97 NTSC, 625i25 PAL

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### HD Format Support

720p50, 720p59.94, 720p60  
1080p23.98, 1080p24, 1080p25,  
1080p29.97, 1080p30, 1080p50,  
1080p59.94, 1080p60  
1080PsF23.98, 1080PsF24, 1080PsF25,  
1080PsF29.97, 1080PsF30  
1080i50, 1080i59.94, 1080i60

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### 2K Format Support

2K DCI 23.98p, 2K DCI 24p, 2K DCI 25p  
2K DCI 23.98PsF, 2K DCI 24PsF, 2K DCI  
F25PsF

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### Ultra HD Format Support

2160p23.98, 2160p24, 2160p25,  
2160p29.97, 2160p30, 2160p50\*,  
2160p59.94\*, 2160p60\*  
\*Output only

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### 4K Format Support

DCI 4K 23.98p, DCI 4K 24p, DCI 4K 25p

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### SDI Compliance

SMPTE 259M, SMPTE 292M, SMPTE  
372M, SMPTE 425M Level A and B,  
ITU-R BT.656 and ITU-R BT.601.

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### SDI Metadata Support

VITC read for 3:2 pulldown removal.  
VANC capture and playback using up  
to 3 lines of video in file. HD RP188.  
Closed captioning.

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### Audio Sampling

Television standard sample rate of 48  
kHz at 24-bit.

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### Video Sampling

4:2:2 and 4:4:4\* \*4K is 4:2:2.

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### Color Precision

10-bit YUV up to 4K, 12-bit\* RGB in HD  
and 2K \*Output only

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### Color Space

REC 601, REC 709

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### HDMI Configuration

HDMI automatically configures to  
connected display.

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### HDMI Resolution

Pixel for pixel up to 4K resolutions.

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### HDMI Color Precision

10-bit RGB\* in HD \*capture only,  
output available in future software  
update. 10-bit YUV in HD and 4K.

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### 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.

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### 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 A  
output, SD-SDI on SDI B output and  
Composite and S-Video 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 hardware up  
conversion from SD to 720HD or  
1080HD on playback. Selectable  
between 4:3 pillarbox, 14:9 pillarbox  
and 16:9 zoom. HD outputs via HD-  
SDI, HDMI and component analog.

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### Cross Conversion

Built-in, high quality hardware cross  
conversion from 720HD to 1080HD  
and 1080HD to 720HD on playback.

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### Real Time Effects

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

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### Colorspace Conversion

Hardware based real time.

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### 3D Processing

Dual stream and frame packed  
capture & playback.

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## Operating Systems



Mac OS X 10.9 Mavericks,  
Mac OS X 10.10 Yosemite,  
Mac OS X 10.11 El Capitan  
or later.



Windows 8.1 or  
Windows 10.



Linux

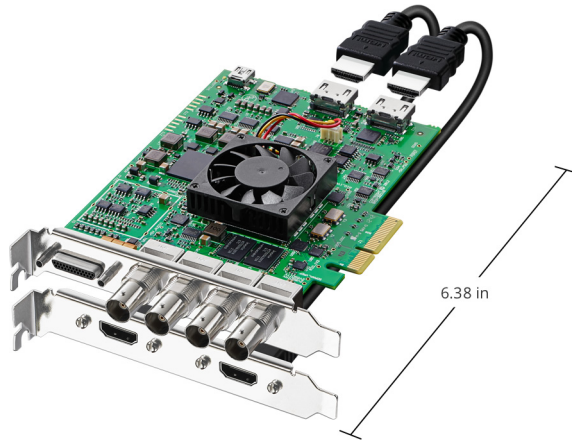
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## EMC Certifications

FCC, CE and C-Tick

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## Physical Specifications



  
6.70 oz

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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 4K Extreme

SD card with software and manual

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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