

## UltraStudio 4K Mini



UltraStudio 4K Mini is a portable Thunderbolt 3 capture and playback solution packed with the latest broadcast technology! You get 12G-SDI, HDMI 2.0 and analog connections for broadcast quality 8, 10 and 12-bit high dynamic range capture in all formats from SD up to 4K DCI at 60 frames per second. Plus, the built in SD card reader lets you mount camera media directly on your computer so you can start editing immediately!

**£785**

### Connections

#### SDI Video Inputs

1

#### SDI Video Outputs

2 x program out, 1 x loop out.

#### SDI Rates

270Mb, 1.5G, 3G, 6G, 12G.

#### Analog Video Inputs

Component YUV or Composite NTSC/PAL. Component is switchable between SD and HD.

#### Analog Audio Inputs

2 channels of professional balanced analog audio with 1/4 inch Jack connectors.

#### Analog Audio Outputs

2 channels of professional balanced analog audio with 1/4 inch Jack connectors.

#### SDI Audio Inputs

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

#### SDI Audio Outputs

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

#### HDMI 2.0b Video Inputs

1

#### HDMI 2.0b Video Outputs

1

#### HDMI Audio Inputs

8 Channels embedded in SD/HD/UHD/4K.

#### HDMI Audio Outputs

8 Channels embedded in SD/HD/UHD/4K.

#### Mic Input

1 x XLR microphone input. 48V Phantom Power switchable via software control.

#### Sync Input

Tri-Sync or Black Burst.

#### Device Control

Sony™ compatible RS-422 deck control port. Serial ports TxRx direction reversible under software control.

#### USB

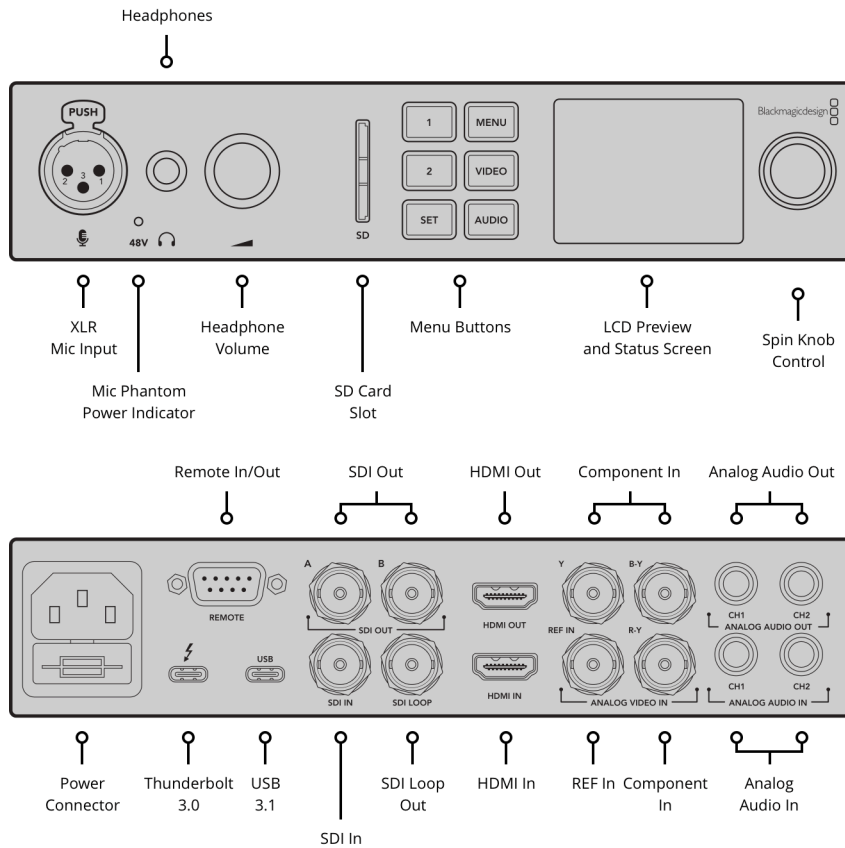
1 x USB-C 3.1 Gen 1 (up to 5 Gb/s).

#### SD Card Reader

UHS-I and UHS-II compatible.

#### Computer Interface

Thunderbolt™ 3 (Mac OS, Windows and Linux) with 45W host charging capability.



## Supported Codecs

AVC-Intra, AVCHD, Canon XF MPEG2, Digital SLR, DV-NTSC, DV-PAL, DVCPRO50, DVCPROHD, DPX, HDV, HEVC, XDCAM EX, XDCAM HD, XDCAM HD422, DNxHR & DNxHD, 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

DaVinci Resolve, 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. Software driver loads upgrades at system start or via updater software.

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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



Steinberg Nuendo



Adobe Photoshop CC

### Other supported applications include:

The Foundry Nuke, Grass Valley Edius, 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, Derivative TouchDesigner, Assimilate Scratch, Burst Video Webclip2Go & [REC]Marker.

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## SDI Video Standards

### SD Video Standards

525i59.94 NTSC, 625i50 PAL

### HD Video Standards

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

### 2K Video Standards

2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI,  
2Kp29.97 DCI, 2Kp30 DCI, 2Kp50 DCI,  
2Kp59.94 DCI, 2Kp60 DCI  
2KPsF23.98 DCI, 2KPsF24 DCI,  
2KPsF25 DCI, 2KPsF29.97 DCI,  
2KPsF30 DCI

### Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,  
2160p29.97, 2160p30, 2160p50,  
2160p59.94, 2160p60

### 4K Video Standards

4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,  
4Kp29.97 DCI, 4Kp30 DCI, 4Kp50 DCI,  
4Kp59.94 DCI, 4Kp60 DCI

### 3D Video Standards\*

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  
2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI,  
2Kp29.97 DCI, 2Kp30 DCI, 2Kp50 DCI,  
2Kp59.94 DCI, 2Kp60 DCI  
2KPsF23.98 DCI, 2KPsF24 DCI,  
2KPsF25 DCI, 2KPsF29.97 DCI,  
2KPsF30 DCI  
2160p23.98, 2160p24, 2160p25,  
2160p29.97, 2160p30  
4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,  
4Kp29.97 DCI, 4Kp30 DCI

\* Playback only

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**SDI Compliance**

SMPTE 259M, SMPTE 274M, SMPTE 296M, SMPTE 424M, SMPTE 425M Level A and B, SMPTE 2036-1, SMPTE 2048-1, SMPTE 2081-10, SMPTE 2082-10 and SMPTE ST2108-1.

**SDI Metadata Support**

RP 188/SMPTE 12M-2 and closed captioning.

**Multiple Rate Support**

SDI video connections are switchable between SD/HD/2K/UHD and 4K.

**SDI Audio Sampling**

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

**SDI Video Sampling**

4:2:2, 4:4:4

**SDI Color Precision**

8, 10, 12-bit RGB 4:4:4 in 2D modes up to 4Kp30 DCI and 8, 10-bit YUV 4:2:2 in all 2D modes.

8, 10, 12-bit RGB 4:4:4 in 3D modes up to 2Kp60 DCI and 8, 10-bit YUV 4:2:2 in all 3D modes.

**SDI Color Space**

REC 601, REC 709 and REC 2020

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## HDMI Video Standards

**SD Video Standards**

525i59.94 NTSC, 625i50 PAL

**HD Video Standards**

720p50, 720p59.94, 720p60  
1080p23.98, 1080p24, 1080p25,  
1080p29.97, 1080p30, 1080p50,  
1080p59.94, 1080p60  
1080i50, 1080i59.94, 1080i60

**Ultra HD Video Standards**

2160p23.98, 2160p24, 2160p25,  
2160p29.97, 2160p30, 2160p50,  
2160p59.94, 2160p60

**4K Video Standards**

4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,  
4Kp29.97 DCI, 4Kp30 DCI, 4Kp50 DCI,  
4Kp59.94 DCI, 4Kp60 DCI

**3D Video Standards**

720p50, 720p59.94, 720p60  
1080p23.98, 1080p24, 1080p25,  
1080p29.97, 1080p30, 1080p50,  
1080p59.94, 1080p60  
1080i50, 1080i59.94, 1080i60  
2160p23.98, 2160p24, 2160p25,  
2160p29.97, 2160p30  
4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,  
4Kp29.97 DCI, 4Kp30 DCI.

**HDMI Audio Sampling**

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

**HDMI Video Sampling**

4:4:4, 4:2:2 and 4:2:0

**HDMI Color Precision**

8, 10 and 12-bit

**HDMI Configuration**

HDMI 2.0b supports Deep Color and HDR. Automatically configures to connected display.

**Multiple Rate Support**

HDMI video connections are switchable between SD/HD/UHD and 4K.

**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

**Real Time Effects**

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

**Colorspace Conversion**

Hardware based real time.

**3D Processing**

Dual stream and frame packed capture and playback. 3D capture supported via HDMI input only.

**Physical Installation**

Requires a computer with a Thunderbolt™ 3 port. Please check support pages to see the full system requirements.

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## Physical Specifications



## 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 Supply

1 x Internal 100 - 240V AC

### Power Usage

75.3W max

## Environmental Specifications

### Operating Temperature

5° to 40° C (41° 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

UltraStudio 4K Mini

SD card with software and manual

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## Warranty

3 Year Limited

Manufacturer's Warranty.

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