

# UltraStudio Monitor 3G



Get the world's smallest 3G-SDI and HDMI video playback from your Thunderbolt 3 laptop or desktop computer! UltraStudio Monitor 3G supports broadcast quality 10 bit professional SDI and HDMI monitoring from popular editing software such as DaVinci Resolve, Final Cut Pro X, Media Composer and Adobe Premiere Pro CC, plus high end broadcast graphics and titling systems.

## Connections

### SDI Video Outputs

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### SDI Rates

270Mb, 1.5G, 3G

### SDI Audio Outputs

16 Channels embedded in SD/HD

### HDMI Video Outputs

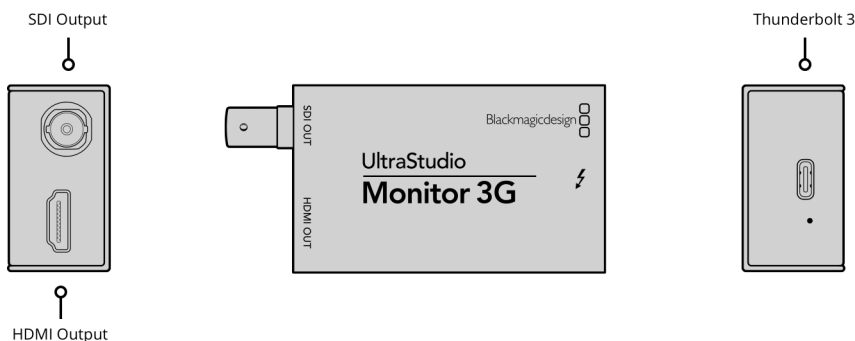
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### HDMI Audio Outputs

8 Channels embedded in SD/HD

### Computer Interface

Thunderbolt™ 3 (Mac OS, Windows and Linux)



## 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 422 LT, Apple ProRes 422 Proxy, Uncompressed 8-bit 4:2:2, Uncompressed 10-bit 4:2:2, Uncompressed 10-bit 4:4:4.

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## 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. 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



Adobe After Effects CC



Adobe Photoshop CC



Adobe Character Animator CC



Avid Media Composer



Avid Pro Tools



Steinberg Cubase



Steinberg Nuendo

### Other supported applications include:

The Foundry Nuke, Sony Catalyst Production Suite, Tools On Air Just: Play & Live, Magix Movie Edit Pro Premium, Corel VideoStudio Pro, CyberLink PowerDirector, Grass Valley Edius, Softron Mreplay, Telestream Wirecast, Livestream Studio, Resolume Arena, Vegas Creative Software Vegas Pro, VidblasterX Studio and Broadcast, Unimedia Technologies UniplayOne and Uniplay-CG, CasparCG Server, Magicsoft CG, Xsplit Broadcaster, DevTek Easy Media Suite, Boinx Software Mimolive, StudioCoast vMix, Renewed Vision ProPresenter, Ventuz Director, Class X Liveboard and CoralCG, Open Broadcaster Software Studio, Nautilus Studio Nemo3D, Burst Video Webclip2Go, Derivative TouchDesigner, Assimilate Scratch and Live Assist, NewBlue Title Live and Titler Pro, SGO Mistika, Zoom.

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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

### SDI Compliance

SMPTE 259M, SMPTE 274M,  
SMPTE 296M, SMPTE 424M, SMPTE  
425M A/B and SMPTE ST2108-1

### SDI Metadata Support

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

### 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 up to 1080p30,  
and 8, 10-bit YUV 4:2:2 in  
all standards.

### SDI Color Space

REC 601, REC 709 and REC 2020

### SDI HDR Support

HDR metadata packing, HLG and PQ  
transfer characteristics.

### Multiple Rate Support

SDI video connection is switchable  
between SD and HD.

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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

### HDMI Audio Sampling

Television standard sample rate of  
48 kHz and 24 bit.

### HDMI Video Sampling

4:2:2 and 4:4:4

### HDMI Color Precision

10, 12-bit RGB 4:4:4 up to 1080p30,  
8-bit RGB 4:4:4 and 12-bit YUV 4:2:2 in  
all standards.

### HDMI Configuration

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

### HDMI Color Space

REC 601, REC 709 and REC 2020

### HDMI HDR Support

HDR metadata packing, HLG and PQ  
transfer characteristics.

### Multiple Rate Support

HDMI video connection is switchable  
between SD and HD.

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## Hardware Frame Buffer

v210 (10 bit YUV), 2vuy (8 bit YUV), ARGB, BGRA (8 bit RGB), r210 (10 bit RGB), R12B, R12L (12 bit RGB).

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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.

### Physical Installation

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

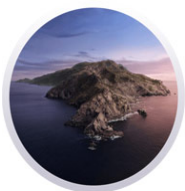
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## Physical Specifications



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## Operating Systems



Mac 10.14 Mojave,  
Mac 10.15 Catalina or later.



Windows 8.1 and 10, both 64-bit.



Linux

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## Power Requirements

Powered by Thunderbolt cable. Requires computer with a Thunderbolt™ 3 USB-C port.

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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

UltraStudio Monitor 3G

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## Warranty

12 Month Limited Manufacturer's Warranty.

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