

UltraStudio Mini Monitor 12G



Get 12G-SDI and HDMI video playback from your Thunderbolt™ laptop or desktop computer! The compact UltraStudio Mini Monitor 12G supports broadcast quality 10-bit SDI and HDMI video outputs from popular editing software such as DaVinci Resolve or broadcast graphics software using the 10-bit fill and key outputs. UltraStudio Mini Monitor 12G has multi-rate HDMI and 12G-SDI connections which support HD for broadcast video use as well as the latest Ultra HD video standards up to 2160p60.

US\$429

Connections

SDI Video Outputs

2

SDI Fill Outputs

1

SDI Key Outputs

1

SDI Rates

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

SDI Audio Outputs

16 channels embedded audio on SDI output.

HDMI 2.0 Video Outputs

1

HDMI Audio Outputs

8 channels embedded audio on HDMI output.

Computer Interface

Thunderbolt 4 (Mac OS Apple Silicon
Macs, Windows and Linux)



Supported Codecs

Video 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.

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.

Software Applications



DaVinci Resolve



Fusion



Final Cut Pro



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, 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.

These are third party applications and support may vary, check with your software vendor.

SDI Video Standards

SDI Video Standards

525i59.94 NTSC, 625i50 PAL

HD Video Standards

720p50, 720p59.94, 720p60
1080i50, 1080i59.94, 1080i60
1080p23.98, 1080p24, 1080p25,
1080p29.97, 1080p30, 1080p47.95,
1080p48, 1080p50, 1080p59.94,
1080p60
1080PsF23.98, 1080PsF24,
1080PsF25, 1080PsF29.97, 1080PsF30

2K Video Standards

2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI,
2Kp29.97 DCI, 2Kp30 DCI, 2Kp47.95
DCI, 2Kp48 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, 2160p47.95,
2160p48, 2160p50, 2160p59.94,
2160p60

4K Video Standards

4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,
4Kp29.97 DCI, 4Kp30 DCI, 4Kp47.95
DCI, 4Kp48 DCI, 4Kp50 DCI, 4Kp59.94
DCI and 4Kp60 DCI

SDI Compliance

SMPTE 259M, SMPTE 292M, SMPTE
296M, SMPTE 424M, SMPTE 425M
level A and B, SMPTE 2081-1, SMPTE
2081-10, SMPTE 2082-1, SMPTE
2082-10, SMPTE 2084 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 2160p30,
and 8, 10-bit YUV 4:2:2 in
all standards.

SDI Color Space

Rec. 601, Rec. 709 and Rec. 2020.

HDR Support

HDR static metadata packing, HLG
and PQ transfer characteristics.

Multiple Rate Support

SDI video connection is switchable
between SD, HD, 2K, Ultra HD and 4K.

HDMI Video Standards

SDI Video Standards

525i59.94 NTSC, 625i50 PAL

HD Video Standards

720p50, 720p59.94, 720p60
1080i50, 1080i59.94, 1080i60
1080p23.98, 1080p24, 1080p25,
1080p29.97, 1080p30, 1080p47.95,
1080p48, 1080p50, 1080p59.94,
1080p60

Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,
2160p29.97, 2160p30, 2160p47.95,
2160p48, 2160p50, 2160p59.94,
2160p60

4K Video Standards

4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI,
4Kp29.97 DCI, 4Kp30 DCI, 4Kp47.95
DCI, 4Kp48 DCI, 4Kp50 DCI, 4Kp59.94
DCI and 4Kp60 DCI

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

8, 10 and 12-bit RGB 444, 8-bit YUV
444* and 12-bit YUV 422* in
all standards

* converted from 10-bit YUV 422

HDMI Configuration

HDMI 2.0 supports Deep Color.

HDMI Color Space

Rec. 601, Rec. 709 and Rec. 2020.

HDR Support

HDR static metadata packing, HLG
and PQ transfer characteristics.

Multiple Rate Support

HDMI video connection is switchable
between SD, HD, Ultra HD and 4K.

Hardware Frame Buffer

2vuy (8-bit YUV), ARGB, BGRA (8-bit RGB), Ay10 (10-bit YUVA), r210 (10-bit RGB), v210 (10-bit YUV), R12B, R12L (12-bit RGB).

Processing

Colorspace Conversion

Hardware based real time.

Operating Systems



Mac 15.0 Sequoia,
Mac 26.0 Tahoe or later.



Windows 10, 64-bit.
Windows 11.



Linux

Power Input

Powered by Thunderbolt cable.
Requires computer with a
Thunderbolt 4 USB-C port.

Power Usage

15 W

Physical Installation

Works with Apple Silicon Macs and Thunderbolt 4 / Thunderbolt 5 PCs.

Physical Specifications



Environmental Specifications

Operating Temperature	Storage Temperature	Relative Humidity
5° to 40° C (32° to 104° F)	-20° to 45° C (-4° to 113° F)	0% to 90% non-condensing

What's Included

UltraStudio Mini Monitor 12G

Welcome wallet with QR code for software download

Warranty

1 Year Limited Manufacturer's Warranty.

Blackmagic Design Authorized Reseller