

Blackmagic Design BMD-BDLKULSDBREC3G UltraStudio Monitor 3G

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.

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, 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.

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

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.

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
- 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.

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).

Processing

Real Time Effects

DaVinci Resolve, Final Cut Pro 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.

Operating Systems

- Mac 11.1 Big Sur,
- Mac 12.0 Monterey or later.
- Windows 10, 64-bit.
- Windows 11.

- Linux

Power Requirements

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

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