

Blackmagic Design Video Recording Monitor

Blackmagic Video Assist 7" 12G HDR

Product Technical Specifications



Blackmagic Video Assist 7" 12G HDR adds professional monitoring and recording to any SDI or HDMI camera in all HD, Ultra HD, 2K and 4K DCI formats! The super bright 2500nit 7 inch HDR monitor supports 3D LUTs and features professional scopes along with powerful focus assist and exposure tools that help you accurately set focus, exposure and frame shots. Dual built in SD card recorders save files from any camera in 10-bit 4:2:2 ProRes or DNx formats. You also get two mini XLR connections with 48V of phantom power and a noise floor of -128dBV for high quality, crystal clear audio recording. Plus, you can start editing immediately because you don't have to convert the files!

Connections

SDI Video Inputs

1

SDI Video Outputs

1

SDI Rates

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

HDMI 2.0a Video Inputs

1

HDMI 2.0a Video Outputs

1

Analog Audio Inputs

2 x balanced mini XLR with phantom power

Analog Audio Outputs

1 x 3.5 mm headphone jack.

Built in Speaker

Mono

Screen Dimensions

7 inch 1920 x 1200.

Screen Brightness

2500nits

Screen Color

P3 wide color gamut

SDI Audio Inputs

16 channels embedded via 12G-SDI

SDI Audio Outputs

16 channels embedded via 12G-SDI

HDMI Audio Inputs

8 channels embedded via HDMI 2.0a

HDMI Audio Outputs

8 channels embedded via HDMI 2.0a

Remote Control

1 x 2.5mm LANC for Record Start and Stop.

SD Interface

Dual UHS-II SD slots

Storage Type

Removable SDXC UHS-II, SDXC UHS-I and SDHC UHS-I SD cards. Supports DS, HS, SDR12, SDR25, DDR50, SDR50 and SDR104 SD cards.

Computer Interface

1 x USB Type-C 3.1 Gen 1 for external drive recording, webcam out, initial setup, software updates and Video Assist Utility software control.

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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
2KPsF23.98 DCI, 2KPsF24 DCI,
2KPsF25 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

SDI Compliance

SMPTE 259M, SMPTE 292M,
SMPTE 296M, SMPTE 425M,
SMPTE 2084

SDI Metadata Support

HD RP188

Audio Sampling

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

Video Sampling

4:2:2 YUV

Color Precision

10-bit

Color Space

REC 601, REC 709, REC 2020

HDR Support

HDR10, Hybrid Log Gamma

Multiple Rate Support

SDI and HDMI switches between
270 Mb/s, 1.5 Gb/s, 3 Gb/s, 6 Gb/s
and 12 Gb/s

SDI RAW

Blackmagic RAW

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

HDMI Color Precision

10-bit

HDR Support

HDR10, Hybrid Log Gamma

Copy Protection

HDMI input is unable to capture from
copy protected HDMI sources. Always
confirm copyright ownership before
capture or distribution of content.

Media

Media

2 x UHS-II SD for Ultra HD,
compatible with regular SD for
HD recording. USB Type-C 3.1 Gen 1
for external drive recording.

Media Type

SDXC UHS-II, SDXC UHS-I and SDHC
UHS-I SD cards.



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Supported Codecs

Blackmagic RAW Constant Bitrate 3:1, Blackmagic RAW Constant Bitrate 5:1, Blackmagic RAW Constant Bitrate 8:1, Blackmagic RAW Constant Bitrate 12:1, Blackmagic RAW Constant Quality Q0, Blackmagic RAW Constant Quality Q5,

Apple ProRes 422 HQ, Apple ProRes 422, Apple ProRes 422 LT, Apple ProRes 422 Proxy, DNxHR HQX, DNxHR SQ, DNxHR LB, DNxHR HQX MXF, DNxHR SQ MXF, DNxHR LB MXF.

Control

Recorder Control

Integrated capacitive touchscreen LCD with onscreen controls for settings and navigating menus.

External Control

LANC, SDI and HDMI start/stop and timecode run.

Blackmagic RAW

Supported Cameras

Canon EOS C300 Mark II, FUJIFILM GFX100, FUJIFILM GFX100S, Leica SL2-S, Nikon Z 6, Nikon Z 7, Nikon Z 6II, Nikon Z 7II, Panasonic AU-EVA1, Panasonic LUMIX GH5S, Panasonic LUMIX BGH1, Panasonic LUMIX BS1H, Panasonic LUMIX S1, Panasonic LUMIX S1H, Panasonic LUMIX S5, SIGMA fp, SIGMA fp L

Software

Software Included

Blackmagic OS

Scopes

Scopes

Waveform, RGB Parade, Vector, Histogram.

Viewing Modes

Scopes with picture in picture or picture overlay and opacity control. Waveform and Parade with standard and HDR graticules.

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Specs

Blackmagic Design Video Assist 4K Specifications

Display Type	LCD touchscreen
Display Size	7"
Display Resolution	1920 x 1200
Display Viewing Angle	135 deg.
SDI Video Input	1x SD/HD/3G/6G-SDI (BNC connector)
SDI Video Output	1x SD/HD/3G-SDI (BNC connector)
HDMI Video Input	1x HDMI 2.0a
HDMI Video Output	1x HDMI 2.0a
SDI Audio Input	2 channels embedded in 6G-SDI
SDI Audio Output	2 channels embedded in 6G-SDI
HDMI Audio Input	2 channels embedded via HDMI 2.0a
HDMI Audio Output	2 channels embedded via HDMI 2.0a
Analog Audio Input	2x balanced mini XLR with phantom power
Audio Output	1x 3.5 mm stereo analog audio output jack
Remote Control	1x 2.5mm LANC for Record Start and Stop.
USB	Mini-B USB 2.0
Media Card Slots	Dual UHS-II SD card slots
Recording Media	SDXC UHS-II SDXC UHS-I SDHC UHS-I SD Supports DS, HS, SDR12, SDR25, DDR50, SDR50, and SDR104 SD cards

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Codecs Supported	ProRes 422 HQ, ProRes 422, ProRes 422 LT, ProRes Proxy, DNxHD 220x, DNxHD 145, DNxHD 45, DNxHD 220x MXF, DNxHD 145 MXF, DNxHD 45 MXF, DNxHR HQX MXF, DNxHR HQX, DNxHR SQ, DNxHR LB, DNxHR SQ MXF, DNxHR LB MXF
Supported Video Formats	SDI: 3840 x 2160p: 23.98/24/25/29.97/30 1920 x 1080p: 23.98/24/25/29.97/30/50/59.94/60 1920 x 1080PsF: 23.98/24 1920 x 1080i: 50/59.94/60 1280 x 720p: 50/59.94/60 625/50i: PAL 525/59.94i: NTSC HDMI: 3840 x 2160p: 23.98/24/25/29.97/30 1920 x 1080p: 23.98/24/25/29.97/30/50/59.94/60 1920 x 1080i: 50/59.94/60 1280 x 720p: 50/59.94/60 480p60 576p50 625/25: PAL 525/29.97: NTSC
Recording Time	With 128GB SD card: Apple ProRes 422 HQ: 1.61 hours ProRes 422: 2.43 hours ProRes LT: 3.47 hours ProRes Proxy: 7.9 hours
SDI Video Sampling	4:2:2 YUV
SDI Audio Sampling	48 kHz, 24-bit
SDI Color Precision	10-bit
SDI Compliance	SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 425M
SDI Metadata Support	HD RP188 and closed captioning
SDI Color Space	REC 601, REC 709
HDMI Color Precision	10-bit
HDCP Compatible	No
OS Compatibility	Mac OS X 10.9 Mavericks Mac OS X 10.10 Yosemite or later

Blackmagic Design Video Recording Monitor

Windows 7
Windows 8

Power Requirements	12 VDC
Batteries	2 x Rechargeable LP-E6 lithium-ion batteries (not included)
AC Adapter	110 to 240 VAC
Operating Temperature	0 to 40 deg. C (32 to 104 deg. F)
Storage Temperature	-21 to 45 deg. C (-6 to 113 deg. F)
Relative Humidity	0 to 90% non-condensing
Dimensions	7.45 x 5.14 x 1.28" (18.92 x 13.06 x 3.25cm)
Weight	1.7lbs (0.8kg)