SUMO 19"

19" HDR HIGH BRIGHT STUDIO MONITOR, RAW/PRORES RECORDER

Go HDR! In the field & the studio

Sumo's 19" 1920x1080 10-bit LCD panel is driven by the AtomHDR engine which precisely maps Log/PQ/HLG from every popular camera/game console or TV maker to perfectly resolve 10+ stops of HDR in real time. HDR comes to life on this incredible monitor or out to larger displays or TV's for affordable HDR studio grading from any NLE or grading suite.

12-bit Raw, 10-bit ProRes/ DNxHR up to 4Kp60

Capture the RAW output from Sony FS5/ FS7/FS700, Canon C300MKII/ C500 or Panasonic Varicam LT over SDI up to 12-bit 4Kp30 as CDNG or up to 10-bit ProRes 4Kp60 / 2Kp240 depending on the camera's capability. Pristine quality is preserved at amazing data rates of up to 3.2 Gbps. Video is captured as either Apple ProRes or DNxHR in 10-bit 4:2:2 quality.

Live Switch and Record of up to four 1080/60p channels, 4 x ISO record and playback

Switching and mixing of a live record and stream with the option of ISO recording of 4xHD channels. Switch between feeds on screen with cueing, cross fade and hard cuts. The switching revolution has begun.

Balanced XLR Monitor & Record with 48V Phantom

Eliminate the need for a separate audio recorder by using the full size XLR connections to connect and power external microphones for balanced analogue audio with dedicated meters and adjustments for frame delay and gain. 48V phantom mics or line level audio are all seamlessly synchronized for the most advanced audio features in-built in a monitor today.

High Bright 1200nit 19" calibrated 1920x1080 monitor

The extremely bright 1200 nits display means you can accurately monitor, even when outside in full daylight. All monitors drift in color and brightness over time, which is why all high end monitors have calibration, Sumo gives you this reliability for free. Use X-Rite's i1DisplayPro, the professional's choice for ongoing accurate HDR and Rec709 monitoring.

Quad SDI & HDMI 2.0 in/out

Seamlessly connect any SDI or HDMI device and convert between HDMI 2.0 & 3G Quadlink/6G/12G in any combination. Quad SDI inputs connect cameras with multiple 1.5 or 3G SDI outputs without the need for converters. HDMI 2.0 supports up to 4Kp60 I/O and the full suite of Atomos latest open protocol 3.0 supporting HDR automation and camera control.

Record tally

Record 4K direct to SSD

Calibration/ Lanc control

Headphone monitoring

SuperAtom IPS 19" touch screen monitor

Quadlink

Professional XLR Audio

SUMO 19"

Weight and Dimensions

Without batteries & media	5.6kg / 12.3lb
With batteries & media	-
With stand	6.2kg / 13.7lb
Dimensions (W x H x D mm)	504 x 310 x 63mm, 19.8" x 12.2" x 2.5" (without stand) 504 x 330 x 180mm, 19.8" x 13" x 7.1" (with stand)
Construction	Aluminium alloy chassis with built in armor protection
Mounting points	1/4-20 screw; 4 x top, 4 x bottom, 2 x side 3/8-16 screw; 2 x top, 2 x bottom, 1 x side VESA mount rear

Power

Operating power	75W
Compatible batteries	V-Lock / Anton Bauer via XLR terminal (optional mounting plates available)
Input voltage (battery)	14.4V nominal
Battery time (based on 7.4V)	Depends on Watt Hours specification of battery used
	-
	-
DC In	1 x XLR (12-16.8V)
Continuous power * Patent pending	Primary-secondary battery system. Change batteries without losing power Loop batteries continuously.

Touchscreen

Size	19"
Resolution / PPI	1920 x 1080 / 120PPI
Aspect ratio	16:9 native
Color Gamut	REC709 HDTV
Look up table (LUT) support	3D LUT (.cube format)
Anamorphic de-squeeze	2x, 1.5x, 1.33x, Panasonic 8:3
Technology	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional calibration unit

HDR

AtomHDR	Yes
Supported Log formats	Sony SLog2 / SLog3, Canon CLog / CLog 2, Arri Log C, Panasonic Vlog, JVC JLog, Red LogFilm
Supported Gamuts	Sony SGamut / SGamut3 / SGamut3.cine, Canon Cinema / BT2020 / DCI P3 / DCI P3+, Panasonic V Gamut, Arri Alexa Wide Gamut
Bit depth	10-bit (8+2 FRC)
Brightness	1200nit (+/- 10%)
HDR input (PQ/HLG)	Yes / Yes
HDR output (PQ/HLG)	Yes / Yes

Video Input (Loop Out)

HDMI	1 x HDMI (2.0)
SDI	Quad link 4 x 3G SDI* or up to 12G single link SDI
Signal	Uncompressed true 10-bit or 8-bit 422 (camera dependent)

Video Output (Play Out)

HDMI	1 x HDMI (2.0)
SDI	1x 4K-SDI 12G/6G or HD-SDI 3G/1.5G
Signal	Uncompressed true 10-bit or 8-bit 422 (playback file dependent)

Supported Loop Out Formats

HDMI to HDMI	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120 2160p 24/25/30/50/60
SDI to SDI	720p 50/60, 1080i 50/60 1080pSF 24/25/30 1080p 24/25/30/50/60/100/120 2160p 24/25/30/50/60

Video Signal Conversion

HDMI to SDI	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120 2160p 24/25/30/50/60
SDI to HDMI	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120 2160p 24/25/30/50/60

Supported Codecs & Frame Rates (Record & Playback)

	Brand / Model / Codec	Resolution / Frame rate
Raw Record	Sony^^ FS5/FS7/FS700 CDNG	4K DCI; 24/25/30p 4K UHD; not supported in camera 2K; 24/25/30/50/60/100/120p 1080; not supported in camera
	Canon C300MKII/C500 CDNG	4K DCI; 24/25/30p 4K UHD; 24/25/30p 2K; not supported in camera 1080; not supported in camera
	Panasonic VaricamLT / Varicam35* CDNG	4K DCI; 24/25/30p 4K UHD; 24/25/30p 2K; not supported in camera 1080; not supported in camera
	Arri Alexa Mini .ARI*	2880x1620*; 24/25/30/50/60p 2880x2160*; 24/25/30/50/60p
	Brand / Model / Codec	**Resolution / Frame rate**
Raw to ProRes / DNxHR	Sony^^ FS5/FS7/FS700 ProRes (HQ, 422, LT) DNxHR (HQX, HQ, SQ, LB)	4K DCI; 24/25/30/50/60p 4K DCI Burst; 120p* (Sony FS series) 4K UHD; not supported in camera 2K; 24/25/30/50/60/100/120/200/240p 1080; not supported in camera
	Canon C300MKII/C500 ProRes (HQ, 422, LT) DNxHR (HQX, HQ, SQ, LB)	4K DCI; 24/25/30p 4K UHD; 24/25/30p 2K; not supported in camera 1080; not supported in camera
	Panasonic VaricamLT / Varicam35* ProRes (HQ, 422, LT) DNxHR (HQX, HQ, SQ, LB)	4K DCI; 24/25/30/50*/60p* 4K UHD; 24/25/30/50*/60p* 2K; not supported in camera 1080; not supported in camera
	Brand / Model / Codec	**Resolution / Frame rate**
Video to ProRes / DNxHR (DNx utilizes a .MOV wrapper)	**Codecs Apple ProRes HQ, 422, LT AVID DNxHR HQX. HQ, SQ, LB**	4K DCI; 24/25/30/50/60p 4K UHD; 24/25/30/50/60p 2K; not supported in camera 1080p; 24/25/30/50/60/100^/120^/200^/240p^ 1080i; 50/60i 720p; 50/60p

Onboard Processing

Pulldown removal	24/25/30pSF → 24/25/30p (2:2 pulldown) 60i → 24p (3:2 pulldown)
4K UHD downscaling	Yes - Loop-out and playback (Not available in RAW)

Audio In/Out (48kHz PCM Audio)

HDMI	2 or 8ch 24-bit, camera dependent
SDI	12ch 48kHz 24-bit
Audio	2ch balanced XLR analog in/out (direct XLR connection) Dynamic range →90dB Max signal level +24dBu Max analog gain +52dB 48V Phantom Power for Mic
Headphone out	3.5mm
Built-in speakers	Yes

Remote Start/Stop

HDMI	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard
SDI	SDI trigger camera selectable
Other	LANC control - Slave

Playback

Playlist	Yes
Genlock / LTC	Yes
CDNG (recorded content)	No support
ProRes (recorded content)	All recorded files can playback. Playback in slow motion →= 100fps
DNxHR / DNxHD (recorded content)	All recorded files can playback. Playback in slow motion →= 100fps