

Introduction

Thank you for choosing the Atomos Sumo19, the in-studio and on-set 10-bit 4K SDI/HDMI Recorder-Monitor. Featuring a super high-resolution screen in a portable body, with waveform monitoring, vectorscope and on the fly conversion between HDMI & SDI input/output sources.

This user manual will get you up to speed with all the amazing features packed into the Sumo19 with tools designed to help your workflow both on set and in post.

Stay up to date with the latest information and software, by registering your product or visiting the Support section of the website:

www.atomos.com/support



ProRes



Your Sumo19 comes with a standard 1 year warranty on all parts and accessories. You can upgrade to a 3 year warranty on the main Sumo19 unit alone (excluding IPS screen) by registering your Sumo19 online at www.atomos.com/registration

This will enable us to let you know about updates to the product and other important information surrounding your purchase.

What's Included

The Sumo19 comes with a power supply and Master Caddy to get you going right out of the box - all you need to add is 2.5" SSD storage media and accessories to suit your workflow like HDMI or SDI cables and tripod screws.

Here's the complete list

1. Sumo19 recorder/monitor
2. 1 x Empty Master Caddy II with fixing screws
3. Sumo19 19" power supply
4. BattWing - Dual battery plate mounting bracket with 4 x screws
5. 2 x Desktop Feet with 4 x 1/4" mounting screws
6. Sumo19 Quick Start Guide (not pictured)

* Contents may differ slightly from those shown here.

Atomos does not sell storage and your package will not contain any spinning disks or SSDs. You can buy these locally to keep running costs as low as possible.

We recommend drives, please refer to **Part 15** (Technical Specifications) of this manual. For the most up-to-date information please visit:

www.atomos.com/drives





SUMO19

Weight and Dimensions	
Without batteries & media	5.47kg / 12lb
With batteries & media	-
With stand & Battwing adapter	6.28kg / 13.8lb
Dimensions (W x H x D mm)	506 x 310 x 62.5mm, 19.9" x 12.2" x 2.5" (without stand) 506 x 330 x 180mm, 19.9" 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

Specifications correct at time of printing E&OE

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/CS50 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
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/CS50 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
	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	
Live Switch & Recording		
ISO recording *	4 x 1080p60 Inputs	
Switching *	Yes	

* Future firmware update