

**SUMO19****SUMO19M****SHOGUN INFERNO****SHOGUN FLAME****NINJA INFERNO****NINJA FLAME**

Weight and Dimensions			
<b>Without batteries &amp; media</b>	5.45kg / 12.0lb	5.35kg / 11.8lb	709g / 25.0oz
<b>With batteries &amp; media</b>	-	-	1153g / 40.7oz
<b>With stand</b>	6.0kg / 13.2lb	5.9kg / 13.0lb	-
<b>Dimensions (W x H x D mm)</b>	506 x 310 x 63mm, 19.9" x 12.2" x 2.5" (without stand) 506 x 330 x 180mm, 19.9" x 13" x 7.1" (with stand)	506 x 310 x 63mm, 19.9" x 12.2" x 2.5" (without stand) 506 x 330 x 180mm, 19.9" x 13" x 7.1" (with stand)	214 x 127 x 45mm, 8.4 x 5 x 1.8"
<b>Construction</b>	Aluminium alloy chassis with built in armor protection	Aluminium alloy chassis with built in armor protection	High quality lightweight ABS Polycarbonate for durability & portability. Built-in armor protection
<b>Mounting points</b>	1/4-20 screw; 4 x top, 6 x bottom, 4 x right side, 2 x left side, 4 x front for optional sun hood 3/8-16 screw; 2 x top, 3 x bottom, 2 x right, 1 x left side VESA mount (M4); 4 x rear	1/4-20 screw; 4 x top, 6 x bottom, 4 x right side, 2 x left side, 4 x front for optional sun hood 3/8-16 screw; 2 x top, 3 x bottom, 2 x right, 1 x left side VESA mount (M4); 4 x rear	1/4-20 UNC screw mount; 1 x top, 1 x bottom
<b>Power</b>			
<b>Operating power</b>	75W	75W	10 - 33W
<b>Compatible batteries</b>	V-Lock / Anton Bauer via XLR terminal (optional mounting plates available)	V-Lock / Anton Bauer via XLR terminal (optional mounting plates available)	NP-F series and supporting accessories
<b>Input voltage (battery)</b>	14.4V nominal	14.4V nominal	6.2V to 16.8V
<b>Battery time (based on 7.4V)</b>	Depends on Watt Hours specification of battery used	Depends on Watt Hours specification of battery used	-
	-	-	5200mAh - up to 1.5hrs (monitor & record 4K 30p)
	-	-	7800mAh - up to 2.2hrs (monitor & record 4K 30p)
<b>DC In</b>	1 x XLR (12-16.8V)	1 x XLR (12-16.8V)	1 x DC in (6.2 - 16.8V)
<b>Continuous power * Patent pending</b>	Primary-secondary battery system. Change batteries without losing power. Loop batteries continuously.	Primary-secondary battery system. Change batteries without losing power. Loop batteries continuously.	Primary-secondary battery system. Change batteries without losing power. Loop batteries continuously.
<b>Touchscreen</b>			
<b>Size</b>	19"	19"	7"
<b>Resolution / PPI</b>	1920 x 1080 / 120PPI	1920 x 1080 / 120PPI	1920 x 1200 / 325PPI
<b>Aspect ratio</b>	16:9 native	16:9 native	16:9 native
<b>Color Gamut</b>	REC709 HDTV	REC709 HDTV	REC709 HDTV
<b>Look up table (LUT) support</b>	3D LUT (.cube format)	3D LUT (.cube format)	3D LUT (.cube format)
<b>Anamorphic de-squeeze</b>	2x, 1.5x, 1.33x, Panasonic 8:3	2x, 1.5x, 1.33x, Panasonic 8:3	2x, 1.5x, 1.33x, Panasonic 8:3
<b>Technology</b>	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional calibration unit	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional calibration unit	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional calibration unit
<b>HDR</b>			
<b>AtomHDR</b>	Yes	Yes	Yes
<b>HDR Recording (Gamma)</b>	Sony SLog / SLog2 / SLog3, Canon CLog / CLog2 / CLog3, Arri Log CEI160 / LogCEI200 / LogCEI250 / LogCEI320 / LogCEI400 / LogCEI500 / LogCEI640 / LogCEI800 / LogCEI1000 / LogCEI1280 / LogCEI1600, Panasonic Vlog, JVC JLog1, Red LogFilm / Log3G10 / Log3G12, Fujifilm Flog, PQ10k, HLG	Sony SLog / SLog2 / SLog3, Canon CLog / CLog2 / CLog3, Arri Log CEI160 / LogCEI200 / LogCEI250 / LogCEI320 / LogCEI400 / LogCEI500 / LogCEI640 / LogCEI800 / LogCEI1000 / LogCEI1280 / LogCEI1600, Panasonic Vlog, JVC JLog1, Red LogFilm / Log3G10 / Log3G12, Fujifilm Flog, PQ10k, HLG	Sony SLog / SLog2 / SLog3, Canon CLog / CLog2 / CLog3, Arri Log CEI160 / LogCEI200 / LogCEI250 / LogCEI320 / LogCEI400 / LogCEI500 / LogCEI640 / LogCEI800 / LogCEI1000 / LogCEI1280 / LogCEI1600, Panasonic Vlog, JVC JLog1, Red LogFilm / Log3G10 / Log3G12, Fujifilm Flog, PQ10k, HLG
<b>HDR Recording (Gamut)</b>	Sony SGamut / SGamut3 / SGamut3.cine / BT2020 Canon Cinema / DCI P3 / DCI P3+ / BT2020 Panasonic V Gamut Arri Alexa Wide Gamut Rec709 JVC LS300 Red DragonColor / DragonColor2 / RedColor2 / RedColor3 / RedColor4 / RedWideGamut	Sony SGamut / SGamut3 / SGamut3.cine / BT2020 Canon Cinema / DCI P3 / DCI P3+ / BT2020 Panasonic V Gamut Arri Alexa Wide Gamut Rec709 JVC LS300 Red DragonColor / DragonColor2 / RedColor2 / RedColor3 / RedColor4 / RedWideGamut	Sony SGamut / SGamut3 / SGamut3.cine / BT2020 Canon Cinema / DCI P3 / DCI P3+ / BT2020 Panasonic V Gamut Arri Alexa Wide Gamut Rec709 JVC LS300 Red DragonColor / DragonColor2 / RedColor2 / RedColor3 / RedColor4 / RedWideGamut
<b>HDR Monitoring (Gamma)</b>	10+ stops dynamic range Output Gamma PQ10k, HLG	10+ stops dynamic range Output Gamma PQ10k, HLG	10+ stops dynamic range Output Gamma PQ10k, HLG
<b>HDR Monitoring (Gamut)</b>	Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 on screen Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 / BT2020 / DCI P3 on loop out	Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 on screen Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 / BT2020 / DCI P3 on loop out	Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 on screen Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 / BT2020 / DCI P3 on loop out
<b>Bit depth</b>	10-bit (8+2 FRC)	10-bit (8+2 FRC)	10-bit (8+2 FRC)
<b>Brightness</b>	1200 nit (+/- 10%)	1200 nit (+/- 10%)	1500nit (+/- 10%)
<b>HDR input (PQ/HLG)</b>	Yes	Yes	Yes / Yes
<b>HDR output (PQ/HLG)</b>	Yes	Yes	Yes / Yes
<b>Video Input (Loop Out)</b>			
<b>HDMI</b>	1 x HDMI (2.0)	1 x HDMI (2.0)	1 x HDMI (2.0)
<b>SDI</b>	Quad link 4 x 36 SDI or up to 12G single link SDI	2 x 4K-SDI 12G/6G or HD-SDI 3G/1.5G	Quad link 4 x 36 SDI* or up to 12G single link SDI
<b>Signal</b>	Uncompressed true 10-bit or 8-bit 422 (camera dependent)	Uncompressed true 10-bit or 8-bit 422 (camera dependent)	Uncompressed true 10-bit or 8-bit 422 (camera dependent)
<b>Video Output (Play Out)</b>			
<b>HDMI</b>	1 x HDMI (2.0)	1 x HDMI (2.0)	1 x HDMI (2.0)
<b>SDI</b>	1x 4K-SDI 12G/6G or HD-SDI 3G/1.5G	1x 4K-SDI 12G/6G or HD-SDI 3G/1.5G	1x 4K-SDI 12G/6G or HD-SDI 3G/1.5G
<b>Signal</b>	Uncompressed true 10-bit or 8-bit 422 (playback file dependent)	Uncompressed true 10-bit or 8-bit 422 (playback file dependent)	Uncompressed true 10-bit or 8-bit 422 (playback file dependent)



650g / 22.9oz	630g / 22.2oz	620g / 21.9oz
1094g / 38.6oz	1094g / 38.6oz	1064g / 37.5oz
-	-	-
214 x 127 x 45mm, 8.4 x 5 x 1.8"	214 x 127 x 45mm, 8.4 x 5 x 1.8"	214 x 127 x 45mm, 8.4 x 5 x 1.8"
High quality lightweight ABS Polycarbonate for durability & portability. Built-in armor protection	High quality lightweight ABS Polycarbonate for durability & portability. Built-in armor protection	High quality lightweight ABS Polycarbonate for durability & portability. Built-in armor protection
1/4-20 UNC screw mount; 1 x top, 1 x bottom	1/4-20 UNC screw mount; 1 x top, 1 x bottom	1/4-20 UNC screw mount; 1 x top, 1 x bottom
<b>Power</b>		
10 - 24W	10 - 33W	10 - 24W
NP-F series and supporting accessories	NP-F series and supporting accessories	NP-F series and supporting accessories
6.2V to 16.8V	6.2V to 16.8V	6.2V to 16.8V
-	-	-
5200mAh - up to 1.5hrs (monitor & record 4K 30p)	5200mAh - up to 1.5hrs (monitor & record 4K 30p)	5200mAh - up to 1.5hrs (monitor & record 4K 30p)
7800mAh - up to 2.2hrs (monitor & record 4K 30p)	7800mAh - up to 2.2hrs (monitor & record 4K 30p)	7800mAh - up to 2.2hrs (monitor & record 4K 30p)
1 x DC in (6.2 - 16.8V)	1 x DC in (6.2 - 16.8V)	1 x DC in (6.2 - 16.8V)
Primary-secondary battery system. Change batteries without losing power. Loop batteries continuously.	Primary-secondary battery system. Change batteries without losing power. Loop batteries continuously.	Primary-secondary battery system. Change batteries without losing power. Loop batteries continuously.
<b>Touchscreen</b>		
7"	7"	7"
1920 x 1200 / 325PPI	1920 x 1200 / 325PPI	1920 x 1200 / 325PPI
16:9 native	16:9 native	16:9 native
REC709 HDTV	REC709 HDTV	REC709 HDTV
3D LUT (.cube le format)	3D LUT (.cube format)	3D LUT (.cube format)
2x, 1.5x, 1.33x, Panasonic 8:3	2x, 1.5x, 1.33x, Panasonic 8:3	2x, 1.5x, 1.33x, Panasonic 8:3
SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional calibration unit	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional calibration unit	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional calibration unit
<b>HDR</b>		
Yes	Yes	Yes
Sony SLog / SLog2 / SLog3, Canon CLog / CLog2 / CLog3, Arri Log CEI160 / LogCEI200 / LogCEI250 / LogCEI320 / LogCEI400 / LogCEI500 / LogCEI640 / LogCEI800 / LogCEI1000 / LogCEI1280 / LogCEI1600, Panasonic Vlog, JVC JLog1, Red LogFilm / Log3G10 / Log3G12, Fujifilm Flog, PQ10k, HLG	Sony SLog / SLog2 / SLog3, Canon CLog / CLog2 / CLog3, Arri Log CEI160 / LogCEI200 / LogCEI250 / LogCEI320 / LogCEI400 / LogCEI500 / LogCEI640 / LogCEI800 / LogCEI1000 / LogCEI1280 / LogCEI1600, Panasonic Vlog, JVC JLog1, Red LogFilm / Log3G10 / Log3G12, Fujifilm Flog, PQ10k, HLG	Sony SLog / SLog2 / SLog3, Canon CLog / CLog2 / CLog3, Arri Log CEI160 / LogCEI200 / LogCEI250 / LogCEI320 / LogCEI400 / LogCEI500 / LogCEI640 / LogCEI800 / LogCEI1000 / LogCEI1280 / LogCEI1600, Panasonic Vlog, JVC JLog1, Red LogFilm / Log3G10 / Log3G12, Fujifilm Flog, PQ10k, HLG
Sony SGamut / SGamut3 / SGamut3.cine / BT2020 Canon Cinema / DCI P3 / DCI P3+ / BT2020 Panasonic V Gamut Arri Alexa Wide Gamut Rec709 JVC LS300 Red DragonColor / DragonColor2 / RedColor2 / RedColor3 / RedColor4 / RedWideGamut	Sony SGamut / SGamut3 / SGamut3.cine / BT2020 Canon Cinema / DCI P3 / DCI P3+ / BT2020 Panasonic V Gamut Arri Alexa Wide Gamut Rec709 JVC LS300 Red DragonColor / DragonColor2 / RedColor2 / RedColor3 / RedColor4 / RedWideGamut	Sony SGamut / SGamut3 / SGamut3.cine / BT2020 Canon Cinema / DCI P3 / DCI P3+ / BT2020 Panasonic V Gamut Arri Alexa Wide Gamut Rec709 JVC LS300 Red DragonColor / DragonColor2 / RedColor2 / RedColor3 / RedColor4 / RedWideGamut
10+ stops dynamic range Output Gamma PQ10k, HLG	10+ stops dynamic range Output Gamma PQ10k, HLG	10+ stops dynamic range Output Gamma PQ10k, HLG
Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 on screen Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 / BT2020 / DCI P3 on loop out	Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 on screen Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 / BT2020 / DCI P3 on loop out	Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 on screen Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 / BT2020 / DCI P3 on loop out
10-bit (8+2 FRC)	10-bit (8+2 FRC)	10-bit (8+2 FRC)
1500nit (+/- 10%)	1500nit (+/- 10%)	1500nit (+/- 10%)
Yes / Yes	Yes / Yes	Yes / Yes
Yes / Yes	Yes / Yes	Yes / Yes
<b>Video Input (Loop Out)</b>		
1 x HDMI (1.4b)	1 x HDMI (2.0)	1 x HDMI (1.4b)
1x 4K-SDI 12G/6G or HD-SDI 3G/1.5G (SMPT-E)	-	-
Uncompressed true 10-bit or 8-bit 422 (camera dependent)	Uncompressed true 10-bit or 8-bit 422 (camera dependent)	Uncompressed true 10-bit or 8-bit 422 (camera dependent)
<b>Video Output (Play Out)</b>		
1 x HDMI (1.4b)	1 x HDMI (2.0)	1 x HDMI (1.4b)
1x 4K-SDI 12G/6G or HD-SDI 3G/1.5G	-	-
Uncompressed true 10-bit or 8-bit 422 (playback file dependent)	Uncompressed true 10-bit or 8-bit 422 (playback file dependent)	Uncompressed true 10-bit or 8-bit 422 (playback file dependent)



Supported Loop Out Formats			
<b>HDMI to HDMI</b>	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120 2160p 24/25/30/50/60	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120 2160p 24/25/30/50/60	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120 2160p 24/25/30/50/60
<b>SDI to SDI</b>	720p 50/60, 1080i 50/60 1080pSF 24/25/30 1080p 24/25/30/50/60/100/120 2160p 24/25/30/50/60	720p 50/60, 1080i 50/60 1080pSF 24/25/30 1080p 24/25/30/50/60/100/120 2160p 24/25/30/50/60	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			
<b>HDMI to SDI</b>	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120 2160p 24/25/30/50/60	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120 2160p 24/25/30/50/60	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)			
<b>Raw to:</b>	<b>Brand / Model</b>	<b>Resolution / Frame rate</b>	<b>Resolution / Frame rate</b>
<b>ProResRAW</b>	Sony^^ FS700, FS-5, FS-5MkII FS-7, FS-7MkII	4K DCI; 24/25/30/50/60p 4K UHD; not supported in camera 2K; 24/25/30/50/60/100/120/200/240p 1080i; not supported in camera	4K DCI; 24/25/30/50/60p 4K UHD; not supported in camera 2K; 24/25/30/50/60/100/120/200/240p 1080i; not supported in camera
<b>ProRes</b>	Canon C300MKII/C500	4K DCI; 24/25/30p 4K UHD; 24/25/30p 2K; not supported in camera 1080i; not supported in camera	4K DCI; 24/25/30p 4K UHD; 24/25/30p 2K; not supported in camera 1080i; not supported in camera
<b>CINEMA DNG</b> CDNG up to 30p only			
<b>Avid DNxHD</b>	Panasonic VaricamLT, EVA1	5.7K DCI; 24/25/30p (EVA1 ProRes RAW only) 4K DCI; 24/25/30/50/60p 4K UHD; 24/25/30/50/60p 2K; 24/25/30/50/60/100/120/200/240p 1080i; not supported in camera	5.7K DCI; 24/25/30p (EVA1 ProRes RAW only) 4K DCI; 24/25/30/50/60p 4K UHD; 24/25/30/50/60p 2K; 24/25/30/50/60/100/120/200/240p 1080i; not supported in camera
Onboard Processing			
<b>Pulldown removal</b>	24/25/30pSF → 24/25/30p [2:2 pulldown] 60i → 24p [3:2 pulldown]	N/A	24/25/30pSF → 24/25/30p [2:2 pulldown] 60i → 24p [3:2 pulldown]
<b>4K UHD downscaling</b>	Yes - Loop-out and playback (Not available in RAW)	Yes - Loop-out and playback (Not available in RAW)	Yes - Loop-out and playback (Not available in RAW)
Audio In/Out (48kHz PCM Audio)			
<b>HDMI</b>	2 or 8ch 24-bit, camera dependent	2 or 8ch 24-bit, camera dependent	2 or 8ch 24-bit, camera dependent
<b>SDI</b>	12ch 48kHz 24-bit	12ch 48kHz 24-bit	12ch 48kHz 24-bit
<b>Audio</b>	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	Line in / Mic in / Headphone out 2ch 48kHz 24-bit	2ch balanced XLR analog in/out (Breakout XLR connection) Dynamic range →90dB Max signal level +24dBu Max analog gain +52dB 48V Phantom Power for Mic
<b>Headphone out</b>	3.5mm	3.5mm	3.5mm
<b>Built-in speakers</b>	Yes	No	-
Remote Start/Stop			
<b>HDMI</b>	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard	N/A	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard
<b>SDI</b>	SDI trigger camera selectable		SDI trigger camera selectable
<b>Other</b>	LANC control - Slave		LANC control - Slave
Playback			
<b>Playlist</b>	Yes	No	Yes
<b>Genlock / LTC</b>	Yes	No / No	Yes
<b>CDNG (recorded content)</b>	No support	No	No support
<b>ProRes (recorded content)</b>	All recorded files can playback. Playback in slow motion →= 100fps	No	All recorded files can playback. Playback in slow motion →= 100fps
<b>DNxHR / DNxHD (recorded content)</b>	All recorded files can playback. Playback in slow motion →= 100fps	No	All recorded files can playback. Playback in slow motion →= 100fps
Recording			
<b>Pre-roll record</b>	Yes (HD 8s, 4K 2s)	No	No
<b>Custom timelapse</b>	Yes	No	No
<b>Meta data tagging</b>	Yes (10 tags available)	No	No
<b>Supported media</b>	2.5" SSD/HDD compatibility depends on recording format, resolution and frame rate. Visit atomos.com/drives for list of tested and approved drives	2.5" SSD/HDD. Visit atomos.com/drives for list of tested and approved drives	2.5" SSD/HDD. Visit atomos.com/drives for list of tested and approved drives
<b>Master caddy case</b>	Master Caddy II (included) 75mm x 105mm x 12mm	Master Caddy II (included) 75mm x 105mm x 12mm	Master Caddy II (included) 75mm x 105mm x 12mm
<b>Master caddy dock</b>	2.5" SATA to USB 2.0/3.0	2.5" SATA to USB 2.0/3.0	2.5" SATA to USB 2.0/3.0
<b>Supported applications</b>	Supported Applications FCPX/FCP7+ / Media Composer 5.0+ / Premiere 5.5 / EDIUS 6.0+ / Vegas Pro 10+ / Lightworks / Autodesk Smoke 2015	Supported Applications FCPX/FCP7+ / Media Composer 5.0+ / Premiere 5.5 / EDIUS 6.0+ / Vegas Pro 10+ / Lightworks / Autodesk Smoke 2015	Supported Applications FCPX/FCP7+ / Media Composer 5.0+ / Premiere 5.5 / EDIUS 6.0+ / Vegas Pro 10+ / Lightworks / Autodesk Smoke 2015
<b>XML support</b>	FCPX XML native, FCPX/Adobe limited supported with 3rd party conversion tools	No	No
What's in the Box			
<b>Accessories included</b>	Sumo19 unit, 1x Master Caddy II, 1x BattWing mounting bracket with 4x screws, 2x Desktop Feet with 4x 1/4" Mounting screws, AC power supply	SUMO19M unit, 1x Master Caddy II, 1x BattWing mounting bracket with 4x screws, 2x Desktop Feet with 4x 1/4" Mounting screws, AC power supply	Shogun Inferno unit, Master Caddy II x 1, 12V-3A AC power supply, XLR breakout cable
<b>Optional extras</b>	Sunhood, VESA battery adapter plate, Atomos HDMI cable, X-Rite i1DisplayPro calibration	Sunhood, VESA battery adapter plate, Atomos HDMI cable, X-Rite i1DisplayPro calibration	<b>Accessory Kit:</b> 2 x battery, 1 x charger, 1 x power supply, HPRC case, USB dock, control cable, Dtap cable, Master Caddy x 4, Power supply, Sun hood <b>Power Kit:</b> 2 x battery, 1 x charger, 1 x power supply Other: Atomos HDMI cable, X-Rite i1DisplayPro calibration
<b>Warranty</b>	1 year. Extended to 3 years on product registration	1 year. Extended to 3 years on product registration	1 year. Extended to 3 years on product registration

720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120 2160p 24/25/30	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120 2160p 24/25/30/50/60	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120, 2160p 24/25/30
720p 50/60, 1080i 50/60 1080pSF 24/25/30 1080p 24/25/30/50/60/100/120 2160p 24/25/30	-	-
720p 50/60, 1080i 50/60 1080p 24/25/30/50/60/100/120 2160p 24/25/30	-	-
Resolution / Frame rate		
4K DCI; 24/25/30p 4K UHD; not supported in camera 2K; 24/25/30/50/60/100/120p 1080i; not supported in camera	N/A	N/A
4K DCI; 24/25/30p 4K UHD; 24/25/30p 2K; not supported in camera 1080i; not supported in camera	N/A	N/A
4K DCI; 24/25/30p 4K UHD; 24/25/30p 2K; not supported in camera 1080i; not supported in camera		
Resolution / Frame rate		
24/25/30pSF → 24/25/30p [2:2 pulldown] 60i → 24p [3:2 pulldown]	24/25/30pSF → 24/25/30p [2:2 pulldown] 60i → 24p [3:2 pulldown]	24/25/30pSF → 24/25/30p [2:2 pulldown] 60i → 24p [3:2 pulldown]
Yes - Loop-out and playback (Not available in RAW)	Yes - Loop-out and playback	Yes - Loop-out and playback
Resolution / Frame rate		
2 or 8ch 24-bit, camera dependent	2 or 8ch 24-bit, camera dependent	2 or 8ch 24-bit, camera dependent
12ch 48kHz 24-bit	-	-
2ch balanced XLR analog in/out (Breakout XLR connection) Dynamic range →90dB Max signal level +24dBu Max analog gain +52dB 48V Phantom Power for Mic	2ch balanced XLR analog in/out (Breakout XLR connection) Dynamic range →90dB Max signal level +24dBu Max analog gain +52dB 48V Phantom Power for Mic	Line in / Mic in / Headphone out 2ch 48kHz 24-bit
3.5mm		
-		
Resolution / Frame rate		
Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard
SDI trigger camera selectable	-	-
LANC control - Slave	LANC control - Slave	LANC control - Slave
Resolution / Frame rate		
Yes	Yes	Yes
Yes	N/A	N/A
No support	N/A	N/A
All recorded files can playback. Playback in slow motion →= 100fps	All recorded files can playback. Playback in slow motion →= 100fps	All recorded files can playback. Playback in slow motion →= 100fps
All recorded files can playback at native rate except 4K DCI which plays back at 24p only. Playback in slow motion →= 100fps	All recorded files can playback. Playback in slow motion →= 100fps	All recorded files can playback. Playback in slow motion →= 100fps
Resolution / Frame rate		
Yes (HD 8s, 4K 2s)	Yes (HD 8s, 4K 2s)	Yes (HD 8s, 4K 2s)
Yes	Yes	Yes
Yes (10 tags available)	Yes (10 tags available)	Yes (10 tags available)
2.5" SSD/HDD compatibility depends on recording format, resolution and frame rate. Visit atomos.com/drives for list of tested and approved drives	2.5" SSD/HDD compatibility depends on recording format, resolution and frame rate. Visit atomos.com/drives for list of tested and approved drives	2.5" SSD/HDD compatibility depends on recording format, resolution and frame rate. Visit atomos.com/drives for list of tested and approved drives
Master Caddy II (included) 75mm x 105mm x 12mm	Master Caddy II (included) 75mm x 105mm x 12mm	Master Caddy II (included) 75mm x 105mm x 12mm
2.5" SATA to USB 2.0/3.0	2.5" SATA to USB 2.0/3.0	2.5" SATA to USB 2.0/3.0
Supported Applications FCPX/FCP7+ / Media Composer 5.0+ / Premiere 5.5 / EDIUS 6.0+ / Vegas Pro 10+ / Lightworks / Autodesk Smoke 2015	Supported Applications FCPX/FCP7+ / Media Composer 5.0+ / Premiere 5.5 / EDIUS 6.0+ / Vegas Pro 10+ / Lightworks / Autodesk Smoke 2015	Supported Applications FCPX/FCP7+ / Media Composer 5.0+ / Premiere 5.5 / EDIUS 6.0+ / Vegas Pro 10+ / Lightworks / Autodesk Smoke 2015
FCPX XML native, FCPX/Adobe limited supported with 3rd party conversion tools	FCPX XML native, FCPX/Adobe limited supported with 3rd party conversion tools	FCPX XML native, FCPX/Adobe limited supported with 3rd party conversion tools
Resolution / Frame rate		
Shogun Flame unit, Master Caddy II x 1, 12V-3A AC power supply, XLR breakout cable	Ninja Inferno unit, Master Caddy II x 1, 12V-3A AC power supply	Ninja Flame unit, Master Caddy II x 1, 12V-3A AC power supply
<b>Accessory Kit:</b> 2 x battery, 1 x charger, 1 x power supply, HPRC case, USB dock, control cable, Dtap cable, Master Caddy x 4, Power supply, Sun hood <b>Power Kit:</b> 2 x battery, 1 x charger, 1 x power supply Other: Atomos HDMI cable, X-Rite i1DisplayPro calibration	<b>Accessory Kit:</b> 2 x battery, 1 x charger, 1 x power supply, HPRC case, USB dock, control cable, Dtap cable, Master Caddy x 4, Power supply, Sun hood <b>Power Kit:</b> 2 x battery, 1 x charger, 1 x power supply Other: Atomos HDMI cable, X-Rite i1DisplayPro calibration	<b>Accessory Kit:</b> 2 x battery, 1 x charger, 1 x power supply, HPRC case, USB dock, control cable, Dtap cable, Master Caddy x 4, Power supply, Sun hood <b>Power Kit:</b> 2 x battery, 1 x charger, 1 x power supply Other: Atomos HDMI cable, X-Rite i1DisplayPro calibration
1 year. Extended to 3 years on product registration	1 year. Extended to 3 years on product registration	1 year. Extended to 3 years on product registration



<b>Weight and Dimensions</b>	
<b>Without batteries &amp; media</b>	320g / 11.28oz
<b>With batteries &amp; media</b>	-
<b>With stand</b>	6.0kg / 13.2lb
<b>Dimensions (W x H x D mm)</b>	151 x 91.5 x 31mm
<b>Construction</b>	Aluminium alloy chassis with ABS Polycarbonate back plate
<b>Mounting points</b>	1/4-20 UNC screw mount; 1x top, 1x bottom
<b>Power</b>	
<b>Operating power</b>	10-19W
<b>Compatible batteries</b>	NP-F series and supporting accessories
<b>Input voltage (battery)</b>	6.2V to 16.8V
<b>Battery time (based on 7.4V)</b>	5200mAh - up to 2hrs (monitor & record 4K +60p) 7800mAh - up to 3hrs (monitor & record 4K 60p)
<b>DC In</b>	-
<b>Continuous power * Patent pending</b>	Continuous power with external adaptor*
<b>Touchscreen</b>	
<b>Size</b>	5"
<b>Resolution / PPI</b>	1920 x 1080 / 427ppi
<b>Aspect ratio</b>	16:9 native
<b>Color Gamut</b>	REC709 HDTV
<b>Look up table (LUT) support</b>	3D LUT (.cube format)
<b>Anamorphic de-squeeze</b>	2x, 1.5x, 1.33x, Panasonic 8.3
<b>Technology</b>	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional calibration unit
<b>HDR</b>	
<b>AtomHDR</b>	Yes
<b>Supported Log Formats</b>	Sony SLog2 / SLog3, Canon CLog / CLog 2, CLOG3, Arri Log C, Panasonic Vlog, JVC JLog, Red LogFilm
<b>HDR Recording (Gamut)</b>	Sony SLog / SLog2 / SLog3, Canon CLog / CLog2 / Clog3, Arri Log CEI160 / LogCEI200 / LogCEI250 / LogCEI320 / LogCEI400 / LogCEI500 / LogCEI640 / LogCEI800 / LogCEI1000 / LogCEI1280 / LogCEI1600, Panasonic Vlog, JVC JLog1, Red LogFilm / Log3G10 / Log3G12, FujiFilm Flog, PQ10k, HLG
<b>HDR Monitoring (Gamma)</b>	Sony SGamut / SGamut3 / SGamut3.cine / BT2020 Canon Cinema / DCI P3 / DCI P3+ / BT2020 Panasonic V Gamut Arri Alexa Wide Gamut Rec709 JVC LS300 Red DragonColor / DragonColor2 / RedColor2 / RedColor3 / RedColor4 / RedWideGamut
<b>HDR Monitoring (Gamut)</b>	Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 on screen Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 / BT2020 / DCI P3 on loop out
<b>Bit depth</b>	10-bit (8+2 FRC)
<b>Brightness</b>	1000nit (+/- 10%)
<b>HDR input (PQ/HLG)</b>	Yes
<b>HDR output (PQ/HLG)</b>	Yes
<b>Video Input (Loop Out)</b>	
<b>HDMI</b>	1 x HDMI (2.0)
<b>SDI</b>	-
<b>Signal</b>	Uncompressed true 10-bit or 8-bit 422 (camera dependent)
<b>Video Output (Play Out)</b>	
<b>HDMI</b>	1 x HDMI (2.0)
<b>SDI</b>	-
<b>Signal</b>	Uncompressed true 10-bit or 8-bit 422 (playback file dependent)
<b>Supported Loop Out Formats</b>	
<b>HDMI to HDMI</b>	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120, 2160p 24/25/30/50/60
<b>SDI to SDI</b>	-

<b>Video Signal Conversion</b>		
<b>HDMI to SDI</b>	-	
<b>SDI to HDMI</b>	-	
<b>AtomXpansion Video Audio Power extender In/Out</b>		
<b>Video</b>	Up to 4Kp60	
<b>Audio</b>	12 channels digital 24-bit 96 KHz	
<b>Power</b>	5V-16.6V	
<b>Codec</b>		
<b>Video to ProRes / DNxHR (DNx utilizes a .MOV wrapper)</b>	<b>Brand / Model / Codec</b>	<b>Resolution / Frame rate</b>
	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 1080p; 24/25/30/50/60/100*/120* 1080i; 50/60i, 720p; 50/60p
<b>Onboard Processing</b>		
<b>Pulldown removal</b>	24/25/30p5F → 24/25/30p (2:2 pulldown) 60i → 24p (3:2 pulldown)	
<b>4K UHD downscaling</b>	Yes - Loop-out and playback	
<b>Audio In/Out (48kHz PCM Audio)</b>		
<b>HDMI</b>	2 or 8ch 24-bit, camera dependent	
<b>SDI</b>	-	
<b>Audio</b>	Line in / Mic in / Headphone out 2ch 48kHz 24-bit	
<b>Headphone out</b>	3.5mm	
<b>Built-in speakers</b>	Yes	
<b>Remote Start/Stop</b>		
<b>HDMI</b>	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard	
<b>SDI</b>	-	
<b>Other</b>	LANC control - Slave	
<b>Playback</b>		
<b>Playlist</b>	Yes	
<b>Genlock / LTC</b>	- / -	
<b>CDNG (recorded content)</b>	N/A	
<b>ProRes (recorded content)</b>	All recorded files can playback. Playback in slow motion	
<b>DNxHR / DNxHD (recorded content)</b>	All recorded files can playback. Playback in slow motion	
<b>Recording</b>		
<b>Pre-roll record</b>	Yes (HD 8s, 4K 2s)	
<b>Custom timelapse</b>	Yes	
<b>Meta data tagging</b>	Yes (10 tags available)	
<b>Supported media</b>	2.5" SSD/HDD compatibility depends on recording format, resolution and frame rate. Visit atomos.com/ drives for list of tested and approved drives	
<b>Master caddy case</b>	Master Caddy II (included) 75mm x 105mm x 12mm	
<b>Master caddy dock</b>	2.5" SATA to USB 2.0/3.0	
<b>Supported applications</b>	Supported Applications FCPX/FCP7+ / Media Composer 5.0+ / Premiere 5.5 / EDIUS 6.0+ / Vegas Pro 10+ / Lightworks / Autodesk Smoke 2015	
<b>XML support</b>	FCPX XML native, FCPX/Adobe limited supported with 3rd party conversion tools	
<b>What's in the Box</b>		
<b>Accessories included</b>	Ninja V unit, Master Caddy II x 1, 12V-3A AC power supply	
<b>Optional extras</b>	<b>Accessory Kit:</b> 2 x battery, 1 x charger, 1 x power supply, EVA case, USB dock, control cable, Dtap cable, Master Caddy x 4, Power supply, Sun hood <b>Power Kit:</b> 2 x battery, 1 x charger, 1 x power supply Other: Atomos HDMI cable, X-Rite i1DisplayPro calibration	
<b>Warranty</b>	1 year. Extended to 3 years on product registration	



וידאו סט - ציוד וידאו מקצועי ותעשייתי



<b>Weight &amp; dimensions</b>	
<b>Weight</b>	5.0kg / 11lb
<b>Rack height</b>	3Ru
<b>Rack mounting</b>	Removable rack ears
<b>Dimensions (W x H x D mm)</b>	447 x 152 x 251mm, 17.6 x 6.0 x 9.9" (without rack ears) 490 x 152 x 251mm, 19.3 x 6.0 x 9.9" (with rack ears)
<b>Construction</b>	Steel construction for durability
<b>Cooling</b>	Actively controlled fan with heat sinks
<b>Power</b>	
<b>Operating power (including SSD)</b>	20 - 60W
<b>Redundant PSU</b>	Yes
<b>Compatible batteries</b>	No
<b>DC Out</b>	No
<b>Dual Touchscreens</b>	
<b>Size</b>	7.1" x 2
<b>Resolution / PPI</b>	1920 x 1200 / 320PPI
<b>Aspect ratio</b>	16:9 native
<b>Color Gamut</b>	REC709 HDTV
<b>Look up table (LUT) support</b>	3D LUT (.cube format)
<b>Technology</b>	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional X-Rite unit
<b>Video analysis tools</b>	Luma waveform, RGB parade, Vectorscope, Vectorscope zoom
<b>HDR</b>	
<b>AtomHDR</b>	Yes
<b>Supported Log formats</b>	PQ/HLG - Rec.2100 Sony - SLog/SLog2/SLog3 Canon - CLog/CLog 2/Clog 3 Arri - Log C, Red - 3G10/LogFilm Panasonic - VLog/VLog L JVC - JLog, Fuji - FLog
<b>Supported Gamuts</b>	Sony SGamut / SGamut3 / SGamut3.cine, Canon Cinema / BT2020 / DCI P3 / DCI P3+, Panasonic V Gamut, Arri Alexa Wide Gamut
<b>Bit depth</b>	8-bit
<b>Brightness</b>	4000nit
<b>HDR input (PQ/HLG)</b>	Yes / Yes
<b>HDR output (PQ/HLG)</b>	Yes / Yes
<b>Video Input (Loop Out)</b>	
<b>HDMI</b>	1 x HDMI (1.4b) per channel
<b>SDI</b>	1x 4K-SDI 12G/6G or HD-SDI 3G/1.5G (SMPTE) per channel
<b>Signal</b>	Uncompressed true 10-bit or 8-bit 422 (camera dependent)
<b>Video Output (Play Out)</b>	
<b>HDMI</b>	1 x HDMI (1.4b) per channel
<b>SDI</b>	1x 4K-SDI 12G/6G or HD-SDI 3G/1.5G per channel
<b>Supported Loop Out Formats</b>	
<b>HDMI to HDMI</b>	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/120 2160p 24/25/30
<b>SDI to SDI</b>	720p 50/60, 1080i 50/60 1080p5F 24/25/30 1080p 24/25/30/50/60/120 2160p 24/25/30
<b>Video Signal Conversion</b>	
<b>HDMI to SDI</b>	720p 50/60, 1080i 50/60 1080p 24/25/30/50/60/120 2160p 24/25/30
<b>SDI to HDMI</b>	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/120 2160p 24/25/30
<b>Supported Codecs &amp; Frame Rates (Record &amp; Playback)</b>	
<b>Raw Record</b>	
<b>Sony FS5 &amp; FS5 II, FS7 &amp; FS7 II CDNG**</b>	4K DCI; 24/25/30p 4K UHD; not supported in camera 2K; 24/25/30/50*/60*/100*/120p* 1080i; not supported in camera
<b>Canon C300MKII/C500 CDNG</b>	4K DCI; 24/25/30p 4K UHD; 24/25/30p 2K; not supported in camera. 1080i; not supported in camera
<b>Panasonic VaricamLT CDNG</b>	4K DCI; 24/25/30p 4K UHD; 24/25/30p 2K; not supported in camera. 1080i; not supported in camera
<b>Raw to ProRes / DNxHR</b>	
<b>Sony FS5/FS7/FS700**</b>	4K DCI; 24/25/30p
<b>ProRes (HQ, 422, LT)</b>	4K UHD; Camera dependent
<b>DNxHR (HQX, HQ, SQ, LB)</b>	2K; 24/25/30 - 1080i; Camera dependent
<b>Canon C300MKII/C500</b>	4K DCI; 24/25/30p
<b>ProRes (HQ, 422, LT)</b>	4K UHD; 24/25/30p
<b>DNxHD (HQX, HQ, SQ, LB)</b>	2K/HD; 24/25/30p; Camera dependent

<b>Video to ProRes / DNxHR</b>	
<b>Apple ProRes - HQ, 422, LT AVID DNxHR/DNxHD - HQX, HQ, SQ, LB</b>	4K/2K DCI; Camera dependent 4K UHD; 24/25/30p 1080p; 24/25/30/50/60/100*/120* 1080i; 50/60i 720p; 50/60p
<b>Onboard Processing</b>	
<b>HDMI</b>	24/25/30p5F → 24/25/30p (2:2 pulldown) 60i → 24p (3:2 pulldown)
<b>SDI</b>	Yes - Always on
<b>Analogue audio</b>	On HDMI/SDI loop out (Rec & Playback)
<b>4K UHD downscale for HD monitoring</b>	Yes - Loop-out and playback (Not available in RAW)
<b>Audio In/Out (48kHz PCM Audio)</b>	
<b>HDMI</b>	2 or 8ch 24-bit, camera dependent
<b>SDI</b>	12ch 48kHz 24-bit
<b>Analogue audio</b>	2 x XLR in & 2 x XLR out on rear per record channel. Mic or line level with phantom 48V
<b>Processing</b>	Gain control on line in & headphone output
<b>Maximum audio quality</b>	24-bit, 48kHz
<b>Audio delay</b>	Delay setting +1 to 99 frames
<b>Remote Control</b>	
<b>HDMI</b>	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard
<b>SDI</b>	SDI trigger camera selectable
<b>RS422</b>	RS422 machine control
<b>AMP</b>	via Ethernet RJ45 10/100
<b>Serial</b>	Calibration (front)
<b>Timecode</b>	
<b>HDMI</b>	Embedded timecode from camera or video device
<b>SDI</b>	Embedded timecode from camera or video device
<b>LTC In</b>	Yes (LTC loop back)
<b>GenLock In</b>	Yes (GenLock loop back)
<b>Playback</b>	
<b>Playlist</b>	Yes (run down or reverse order) for selected, favorite or all clips
<b>Playback options</b>	Loop in & out markers
<b>CDNG (Recorded content)</b>	No support
<b>ProRes (Recorded content)</b>	All recorded files can playback. Playback in slow motion → 100fps
<b>DNxHR / DNxHD (recorded content)</b>	All recorded files can playback at native rate except 4K DCI which plays back at 24p only. Playback in slow motion → 100fps
<b>Recording</b>	
<b>Dual channel</b>	Record 4K master with HD proxies. Record both ProRes & DNxHR versions, independent dual channel record.
<b>Continuous dual disk record</b>	Single channel 4K / HD recording automatically switches between drive when at capacity
<b>Pre-roll record</b>	Yes (HD 8s, 4K 2s)
<b>Custom timelapse</b>	Yes (Key frameable up to 10 video and single frame intervals, can be triggered from internal clock).
<b>Meta data edit tagging</b>	Yes (10 tags available)
<b>Supported media (Approved List at atomos.com/drives)</b>	Select SSD - CDNG (4Kp30) Select SSD - Video (4Kp30, HDp120) Select SSD/HDD - Video (1080 30p, 720 60p)
<b>Dual drive slots</b>	2 (1 per record channel)
<b>Drive connection types</b>	SATA III
<b>Master caddy case</b>	Master Caddy II (included) 75mm x 105mm x 12mm
<b>Master caddy dock</b>	2.5" SATA to USB 2.0/3.0
<b>Supported applications</b>	Supported Applications FCPX/FCP7+ / Media Composer 5.0+ / Premiere 5.5 / EDIUS 6.0+ / Vegas Pro 10+ / Lightworks / Autodesk Smoke 2015/DaVinci Resolve
<b>XML support</b>	FCPX XML native, FCPX/Adobe limited supported with 3rd party conversion tools
<b>What's in the Box</b>	
<b>Accessories included</b>	Shogun Studio unit, 2x Rack ears with screws, 5x Master II Caddies, 4x Rubber feet, 2x Large rubber feet, 2x IEC power cable, 1x Screen cleaning cloth
<b>Optional extras</b>	Master Caddy II x 5, X-Rite calibration, Atomos HDMI cables
<b>Warranty</b>	1 year. Extended to 3 years on product registration

Specifications correct at time of printing E&OE.

24/30/60 frame rates also include 23.98/29.97/59.94 frame rates for all resolutions

\* Available in a future firmware update.

\*\* No HDMI Spec for 2K DCI

^ From supported HDMI sources such as gaming consoles & graphics cards

^^ Optional unit (XDCA-FS7) or paid update needed for Raw output