






SPECIFICATIONS	SHOGUN 	SAMURAI BLADE 	NINJA BLADE 
Weight			
Without batteries & media	460g / 16oz	345g / 12oz	311g / 11oz
With batteries & media	732g / 26oz	696g / 25oz	662g / 23oz
Dimensions (W x H x D mm)	196 x 110 x 47mm, 7.7 x 4.3 x 1.85"	153 x 87 x 48mm, 6.0 x 3.4 x 1.9"	136 x 87 x 48mm, 5.4 x 3.4 x 1.9"
Construction	High quality lightweight ABS Polycarbonate for durability & portability	Aircraft-grade Aluminum for durability & portability	Aircraft-grade Aluminum for durability & portability
Power			
Operating power	10 - 20W	3.3W (monitoring only) / 6.8W (Rec, Mon, Play)	3.3W (monitoring only) / 6.8W (Rec, Mon, Play)
Compatible batteries	NP series, D-Tap and supporting accessories	NP series, D-Tap and supporting accessories	NP series, D-Tap and supporting accessories
Input voltage (battery)	6.2V to 16.8V	6.2V to 16.8V	6.2V to 16.8V
Battery time (based on 7.4V)	-	2600mAh - up to 4hrs	2600mAh - up to 4hrs
	5200mAh - up to 1.5hrs (monitor & record 4K)	5200mAh - up to 8hrs	5200mAh - up to 8hrs
	7800mAh - up to 2.2hrs (monitor & record 4K)	7800mAh - up to 12hrs	7800mAh - up to 12hrs
DC In	1 x DC in (6.2 - 16.8V)	-	-
Continuous power * Patent pending	via optional Power Station	Primary-secondary battery system Change batteries without losing power Loop batteries continuously	Primary-secondary battery system Change batteries without losing power Loop batteries continuously
Touchscreen			
Size	7.1"	5"	5"
Resolution	1920 x 1200	1280 x 720	1280 x 720
PPI	320	325	325
Aspect ratio	16:9 native	16:9 native / 4:3 Letterbox	16:9 native / 4:3 Letterbox
Color standard	REC709 HDTV	REC709 HDTV	REC709 HDTV
Look up table (LUT) support	3D LUT (.cube file format)	1D LUT	1D LUT
Technology	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional Atomos Spyder	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional Atomos Spyder	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional Atomos Spyder
Video input/loop out			
HDMI	1 x HDMI (1.4b)	-	1 x HDMI (1.1)
SDI	1 x 4K-SDI 12G/6G or HD-SDI 3G/1.5G (SMPTE)	1 x HD/SD-SDI (SMPTE)	-
Signal	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)
Video output (play out)			
HDMI	1 x HDMI (1.4b)	-	1 x HDMI (1.4)
SDI	1x 4K-SDI 12G/6G or HD-SDI 3G/1.5G (SMPTE)	1 x HD/SD-SDI (SMPTE)	-
Signal	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			
HDMI to HDMI	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/120*, 2160p 24/25/30	-	SD 480i, 576i 1280 x 720p 50/60 1920 x 1080i 50/60 1920 x 1080p 24/25/30
SDI to SDI	720p 50/60, 1080i 50/60 1080pSF 24/25/30 1080p 24/25/30/50/60/120*, 2160p 24/25/30	720p 50/60, 1080i 50/60 1080pSF 24/25/30 1080p 24/25/30	-
Video signal conversion			
HDMI to SDI	720p 50/60, 1080i 50/60 1080p 24/25/30/50/60/120*, 2160p 24/25/30	-	-
SDI to HDMI	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/120*, 2160p 24/25/30	-	-
Supported formats (Record & Playback)			
4K	2160p 24/25/30	-	-
HD - high frame rate**	1080p120*, 1080p60/50	-	-
HD**	1080i60, 1080i50, 1080p30, 1080p25, 1080p24, 1080pSF24, 1080pSF25, 1080pSF30, 720p60, 720p50	1080i60, 1080i50, 1080p30, 1080p25, 1080p24, 1080pSF24, 1080pSF25, 1080pSF30, 720p60, 720p50, SD 480i, 576i	1080i60, 1080i50, 1080p30, 1080p25, 1080p24, 1080pSF24, 1080pSF25, 1080pSF30, 720p60, 720p50, SD 480i, 576i
4K UHD downscale for HD monitoring	Yes - loop-out & playback	-	-




NINJA 2 	NINJA STAR 	RONIN 	SPECIFICATIONS
Weight			Weight
300g / 11oz	130g / 4.6oz	1.8kg / 3lb 15oz	Without batteries & media
651g / 23oz	249g / 8.8oz	2.1kg / 4lb 12oz	With batteries & media
115 x 87 x 41mm, 4.5 x 3.4 x 1.6"	95 x 60 x 25mm, 3.7 x 2.4 x 1.0"	202 x 120 x 160mm, 8.0 x 4.7 x 6.3"	Dimensions (W x H x D mm)
Aircraft-grade Aluminum for durability & portability	Aircraft-grade Aluminum for durability & portability	Steel construction for durability & portability	Construction
Power			Power
3.3W (monitoring only) / 6.0W (Rec, Mon, Play)	3.5W / 4.5W (Rec,Play)	3.3W (monitoring only) / 6.8W (Rec, Mon, Play)	Operating power
NP series, D-Tap and supporting accessories	NP series, D-Tap and supporting accessories	NP series, D-Tap and supporting accessories	Compatible batteries
6.2V to 16.8V	6.2V to 16.8V	6.2V to 16.8V	Input voltage (battery)
2600mAh - up to 5hrs	2600mAh - up to 5hrs	2600mAh - up to 4hrs	Battery time (based on 7.4V)
5200mAh - up to 9hrs	5200mAh - up to 9hrs	5200mAh - up to 8hrs	
7800mAh - up to 14hrs	7800mAh - up to 14hrs	7800mAh - up to 12hrs	
-	-	12V @ 0.5A for powering optional accessories (via DC Out)	DC In
Primary-secondary battery system Change batteries without losing power Loop batteries continuously	via optional Power Station	Primary-secondary battery system Change batteries without losing power Loop batteries continuously Built in charger, charges attached Atomos batteries for portable use or AC power loss back up	Continuous power * Patent pending
Touchscreen			Touchscreen
4.3"	-	5"	Size
800 x 480	-	800 x 480	Resolution
220	-	220	PPI
16:9 native / 4:3 Letterbox	-	16:9 native / 4:3 Letterbox	Aspect ratio
SMPTE	-	SMPTE	Color standard
-	-	-	Look up table (LUT) support
LCD (Resistive touch)	-	LCD (Resistive touch)	Technology
Video input/loop out			Video input/loop out
1 x HDMI (1.1)	1 x HDMI Micro (1.1)	-	HDMI
-	-	1 x HD/SD-SDI (SMPTE)	SDI
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)	Signal
Video output (play out)			Video output (play out)
1 x HDMI (1.4)	1 x HDMI Micro (1.4)	-	HDMI
-	-	1 x HD/SD-SDI (SMPTE)	SDI
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)	Signal
Supported loop out formats			Supported loop out formats
SD 480i, 576i 1280 x 720p 50/60 1920 x 1080i 50/60 1920 x 1080p 24/25/30	SD 480i, 576i 1280 x 720p 50/60 1920 x 1080i 50/60 1920 x 1080p 24/25/30	-	HDMI to HDMI
-	-	720p 50/60 1080i 50/60 1080pSF 24/25/30 1080p 24/25/30	SDI to SDI
Video signal conversion			Video signal conversion
-	-	-	HDMI to SDI
-	-	-	SDI to HDMI
Supported formats (Record & Playback)			Supported formats (Record & Playback)
-	-	-	4K
-	-	-	HD - high frame rate**
1080i60, 1080i50, 1080p30, 1080p25, 1080p24, 1080pSF24, 1080pSF25, 1080pSF30, 720p60, 720p50, SD 480i, 576i	1080i60, 1080i50, 1080p30, 1080p25, 1080p24, 1080pSF24, 1080pSF25, 1080pSF30, 720p60, 720p50, SD 480i, 576i	1080i60, 1080i50, 1080p30, 1080p25, 1080p24, 1080pSF24, 1080pSF25, 1080pSF30, 720p60, 720p50, SD 480i, 576i	HD**
-	-	-	4K UHD downscale for HD monitoring

Specifications correct at time of printing E&OE

* Available in a future firmware update.

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

SPECIFICATIONS	SHOGUN 	SAMURAI BLADE 	NINJA BLADE 
Realtime hardware encoding			
4K-UHD 3840x2160 8/10-bit 4:2:2 to	Apple ProRes: HQ, 422, LT DNxHR: HQX, HQ, SQ, LB	Lossless Cinema DNG* (data rate camera dependent)	-
1920x1080 8/10-bit 4:2:2 to	Apple ProRes: HQ, 422, LT DNxHD: 220x, 220, 145, 36	Apple ProRes: HQ, 422, LT DNxHD: 220x, 220, 145, 36	Apple ProRes: HQ, 422, LT DNxHD: 220x, 220, 145, 36
Onboard processing			
Pulldown removal	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)
Audio in/out (48kHz PCM audio)			
HDMI	2 or 8ch 24-bit, camera dependent	-	2ch 48kHz 16-bit
SDI	12ch 48kHz 24-bit	12ch 48kHz 16-bit	-
Audio	2ch balanced XLR analog in/out Dynamic range >90dB Max signal level +24dBu Max analog gain +40dB 48V Phantom Power for Mic	Line in / Headphone out 2ch 48kHz 16-bit	Line in / Headphone out 2ch 48kHz 16-bit
Remote start/stop			
HDMI	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard	-	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard
SDI	SDI trigger camera selectable	SDI trigger camera selectable	-
Other	LANC control - Slave	LANC control - Slave	LANC control - Slave
Recording			
Supported media (Approved List Only)	4K / HD (50/60/120p*) CFast 2.0, SSD 2.5", HDD (7,200 up to 1080p60) HD CFast 1.0, SSD 2.5", HDD (5,400 up to 1080p30)	SSD 2.5" HDD (5,400 to 7,200rpm)	SSD 2.5" HDD (5,400 to 7,200rpm)
Master caddy case	Master Caddy II (included) 75mm x 105mm x 12mm	Master Caddy 1 (included) 75mm x 105mm x 12mm	Master Caddy 1 (included) 75mm x 105mm x 12mm
Master caddy dock	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	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
XML support	FCPX XML native, FCP7 supported with conversion (Adobe compatible)	FCPX XML native, FCP7 supported with conversion (Adobe compatible)	FCPX XML native, FCP7 supported with conversion (Adobe compatible)
Accessories included	Shogun unit, Custom HPRC Italian made carry case, 9V-3A AC adapter, Master Caddy II x 5, D-Tap adapter, 1 x 5200 mAh battery, Battery charger, XLR breakout cable, SATA 3/2 to USB 3/2 HDD/SSD docking station	Main unit, Universal battery charger 110-240V, AC adapter & car charger, docking station & leads, 2 x master caddy cases, 1 x Atomos 2600mAh battery, Rugged carry case, D-Tap adapter	Main unit, Universal battery charger 110-240V, AC adapter & car charger, docking station & leads, 2 x master caddy cases, 1 x Atomos 2600mAh battery, Rugged carry case, Canon & Nikon adapter plates
Optional extras	Sunhood, Power Station, Spyder calibration	5 x Master caddy cases, Sunhood, Carry cases, Canon & Nikon adapter plates, Connect H2S converter, Connect S2H converter, Power Station	5 x Master caddy cases, Sunhood, D-Tap adapter, Carry cases, Connect H2S converter, Connect S2H converter, Power Station

NINJA 2 	NINJA STAR 	RONIN 	SPECIFICATIONS
			Realtime hardware encoding
-	-	-	4K-UHD 3840x2160 8/10-bit 4:2:2 to
Apple ProRes: HQ, 422, LT DNxHD: 220x, 220, 145, 36	Apple ProRes: HQ, 422, LT	Apple ProRes: HQ, 422, LT DNxHD: 220x, 220, 145, 36	1920x1080 8/10-bit 4:2:2 to
			Onboard processing
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)	Pulldown removal
			Audio in/out (48kHz PCM audio)
2ch 48kHz 16-bit	2ch 48kHz 16-bit (no gain control)	-	HDMI
-	-	12ch 48kHz 16-bit	SDI
Line in / Headphone out 2ch 48kHz 16-bit	Line in / Headphone out 2ch 48kHz 16-bit	2ch balanced analog 48kHz 16-bit +24dBu clipping level, 96 dB SNR, adjustable input gain (-12dB)	Audio
			Remote start/stop
Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard	-	HDMI
-	-	SDI trigger camera selectable	SDI
-	-	LANC control Atomos serial control protocol	Other
			Supported formats (in/out)
SSD 2.5" HDD (5,400 to 7,200rpm)	Atomos CFast & approved 3rd party CFast	SSD 2.5" HDD (5,400 to 7,200rpm)	Supported media (Approved List Only)
Master Caddy 1 (included) 75mm x 105mm x 12mm	-	Master Caddy 1 (included) 75mm x 105mm x 12mm	Master caddy case
2.5" SATA to USB 2.0/3.0	USB 2.0/3.0 CFast card reader	2.5" SATA to USB 2.0/3.0	Master caddy dock
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	Supported applications
FCPX XML native, FCP7 supported with conversion (Adobe compatible)	FCPX XML native, FCP7 supported with conversion (Adobe compatible)	FCPX XML native, FCP7 supported with conversion (Adobe compatible)	XML support
Main unit, Universal battery charger 110-240V, docking station & leads, 2 x master caddy cases, 1 x Atomos 2600mAh battery, Canon & Nikon adapter plates,	Main unit, Universal battery charger 110-240V, AC adapter & car charger, CFast card reader, 1 x Atomos 2600mAh battery, Rugged carry case, Cheese plate mounting adapter	Main unit, docking station & leads, 5 x master caddy cases, 2 x Atomos 2600mAh battery, D-Tap adapter	Accessories included
5 x Master caddy cases, Sunhood, D-Tap adapter, car adapter, Carry cases, Connect H2S converter, Connect S2H converter, Power Station	D-Tap adapter, Canon & Nikon adapter plates, Connect H2S converter, Connect S2H converter, CFast cards, Atomos specialty HDMI cables, Power Station	Rack mount adapter, #RU high, holds 2ea, Connect H2S converter, Connect S2H converter	Optional extras