




SPECIFICATIONS	SHOGUN 	SAMURAI BLADE 	NINJA BLADE 
Weight			
Without batteries & HDD	535g / 19oz	345g / 12oz	311g / 11oz
With batteries & HDD	776g / 27oz	696g / 25oz	662g / 23oz
Dimensions (W x H x D mm)	196 x 110 x 47mm	153 x 87 x 48mm	136 x 87 x 48mm
Construction	High quality lightweight ABS Polycarbonate for durability & portability	Aircraft-grade Aluminum for durability & portability	Aircraft-grade Aluminum for durability & portability
	Heat pipe cooling technology	Fan-less for silent operation	Fan-less for silent operation
Power			
Operating power	6.8W - 11W	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 (Nikon ENL6, Canon EL6)	NP series, D-Tap and supporting accessories (Nikon ENL6, Canon EL6)	NP series, D-Tap and supporting accessories (Nikon ENL6, Canon EL6)
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 3hrs 5200mAh - up to 5hrs 7800mAh - up to 8hrs	2600mAh - up to 4hrs 5200mAh - up to 8hrs 7800mAh - up to 12hrs	2600mAh - up to 4hrs 5200mAh - up to 8hrs 7800mAh - up to 12hrs
DC Out	2 DC Out 5A Max (via optional Powerstation)	-	-
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
Powerstation continuous power dual supply	Optional	Optional	Optional
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
Native frame rate playback	48-60Hz	48-60Hz	48-60Hz
Technology	SuperAtom IPS panel (capacitive touch)	SuperAtom IPS panel (capacitive touch)	SuperAtom IPS panel (capacitive touch)
Video input/loop out			
HDMI	1 x HDMI (1.4b)	-	1 x HDMI (1.4)
SDI	1 x 4K-SDI 12G/6G or HD-SDI 3G/1.5G (SMPTE)	1 x HD/SD-SDI (SMPTE)	-
Signal	Uncompressed 10/8bit 4:2:2 (camera dependent)	Uncompressed 10/8bit 4:2:2	Uncompressed 10/8bit 4:2:2
Video output (play out)			
HDMI	1 x HDMI (1.4b)	-	1 x HDMI (1.4)
SDI	1 x 12G HD/SD-SDI (SMPTE)	1 x HD/SD-SDI (SMPTE)	-
Signal	Uncompressed 10/8bit 4:2:2 (Playback file dependent)	Uncompressed 10/8bit 4:2:2	Uncompressed 10/8bit 4:2:2
Supported loop out formats			
HDMI to HDMI	1280 x 720p 50/60/120, 1920 x 1080i 50/60 1920 x 1080p 24/25/30/50/60/120, 3840 x 2160p 24/25/30	-	1280 x 720p 50 1920 x 1080i 50/60 1920 x 1080p 24/25/30
SDI to SDI	720p 50/60, 1080i 50/60 1080psf 24/25/30/50/60/120 1080p 24/25/30/50/60/120 2160p 24/25/30	720p 50, 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 (in/out)			
4K	3840x2160 - 30p/25p/24p	-	-
HD - high frame rate	1080p120, 1080p60/50, 720p120	-	-
HD	1080i60, 1080i59.94, 1080i50, 1080p30, 1080p25, 1080p24, 1080p23.98, 1080pSF23.98, 1080pSF24, 1080pSF25, 1080pSF30, 720p60, 720p59.94, 720p50,	1080i60, 1080i59.94, 1080i50, 1080p30, 1080p25, 1080p24, 1080p23.98, 1080pSF23.98, 1080pSF24, 1080pSF25, 1080pSF30, 720p60, 720p59.94, 720p50, SD 480i, 576i	1080i60, 1080i59.94, 1080i50, 1080p30, 1080p25, 1080p24, 1080p23.98, 1080pSF23.98, 1080pSF24, 1080pSF25, 1080pSF30, 720p60, 720p59.94, 720p50, SD 480i, 576i

All specifications correct when published, subject to E&OE.

NINJA 2 	NINJA STAR 	RONIN 	SPECIFICATIONS
Weight			
300g / 11oz	130g / 4.6oz	1.8kg / 3lb 15oz	Without batteries & HDD
651g / 23oz	249g / 8.8oz	2.1kg / 4lb 12oz	With batteries & HDD
115 x 87 x 41mm	95 x 60 x 25mm	202 x 102 x 140mm	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
Fan-less for silent operation	Fan-less for silent operation	Fanless for silent operation	
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 (Nikon ENL6, Canon EL6)	NP series, D-Tap and supporting accessories (Nikon ENL6, Canon EL6)	NP series, D-Tap and supporting accessories (Nikon ENL6, Canon EL6)	Compatible batteries
6.2V to 16.8V	6.2V to 16.8V	6.2V to 16.8V	Input voltage (battery)
2600mAh - up to 5hrs 5200mAh - up to 9hrs 7800mAh - up to 14hrs	2600mAh - up to 5hrs 5200mAh - up to 9hrs 7800mAh - up to 14hrs	2600mAh - up to 4hrs 5200mAh - up to 8hrs 7800mAh - up to 12hrs	Battery time (based on 7.4V)
-	-	12V @ 0.5A for powering optional accessories	DC Out
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
Optional	Optional	Optional	Powerstation continuous power dual supply
Touchscreen			
4.3"	-	4.3"	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
48-60Hz	-	48-60Hz	Native frame rate playback
LCD (Resistive touch)	-	LCD (Resistive touch)	Technology
Video input/loop out			
1 x HDMI (1.4)	1 x HDMI Micro (1.4)	-	HDMI
-	-	1 x HD/SD-SDI (SMPTE)	SDI
Uncompressed 10/8bit 4:2:2	Uncompressed 10/8bit 4:2:2	Uncompressed 10/8bit 4:2:2	Signal
Video output (play out)			
1 x HDMI (1.4)	1 x HDMI Micro (1.4)	-	HDMI
-	-	1 x HD/SD-SDI (SMPTE)	SDI
Uncompressed 10/8bit 4:2:2	Uncompressed 10/8bit 4:2:2	Uncompressed 10/8bit 4:2:2	Signal
Supported loop out formats			
1280 x 720p 50 1920 x 1080i 50/60 1920 x 1080p 24/25/30	1280 x 720p 50 1920 x 1080i 50/60 1920 x 1080p 24/25/30	-	HDMI to HDMI
-	-	720p 50 1080i 50/60 1080psf 24/25/30 1080p 24/25/30	SDI to SDI
Video signal conversion			
-	-	-	HDMI to SDI
-	-	-	SDI to HDMI
Supported formats (in/out)			
-	-	-	4K
-	-	-	HD - high frame rate
1080i60, 1080i59.94, 1080i50, 1080p30, 1080p25, 1080p24, 1080p23.98, 1080pSF23.98, 1080pSF24, 1080pSF25, 1080pSF30, 720p60, 720p59.94, 720p50, SD 480i, 576i	1080i60, 1080i59.94, 1080i50, 1080p30, 1080p25, 1080p24, 1080p23.98, 1080pSF23.98, 1080pSF24, 1080pSF25, 1080pSF30, 720p60, 720p59.94, 720p50, SD 480i, 576i	1080i60, 1080i59.94, 1080i50, 1080p30, 1080p25, 1080p24, 1080p23.98, 1080pSF23.98, 1080pSF24, 1080pSF25, 1080pSF30, 720p60, 720p59.94, 720p50, SD 480i, 576i	HD

SPECIFICATIONS	SHOGUN	SAMURAI BLADE	NINJA BLADE
Realtime hardware encoding			
4K-UHD 3840x2160 8/10-bit 4:2:2 to	Apple HQ 422 LT	Lossless Cinema DNG (data rate camera dependent)	-
1920x1080 8/10-bit 4:2:2 to	Apple HQ 422 LT	DNxHD 220/220x 145 36	Apple HQ 422 LT DNxHD 220/220x 145 36
Onboard processing			
	50i from 25PSF > 25P (2:2 Pulldown) 60i from 30PSF > 30P (2:2 Pulldown) 60i from 24P > 24P (3:2 Pulldown) 60i from 23.98P > 23.98P (3:2 Pulldown)	50i from 25PSF > 25P (2:2 Pulldown) 60i from 30PSF > 30P (2:2 Pulldown) 60i from 24P > 24P (3:2 Pulldown) 60i from 23.98P > 23.98P (3:2 Pulldown)	50i from 25PSF > 25P (2:2 Pulldown) 60i from 30PSF > 30P (2:2 Pulldown) 60i from 24P > 24P (3:2 Pulldown) 60i from 23.98P > 23.98P (3:2 Pulldown)
Audio input (48kHz PCM audio)			
Analog Line	-	2ch 48kHz	2ch 48kHz
HDMI	2 or 8 Ch 24-bit, Camera dependent	-	2ch 48kHz
SDI	12ch 48/96kHz 24-bit	12ch 48kHz 16-bit	-
XLR	2ch balanced analog. Line +24dBu / mic -40 dBu. 96 dB SNR, analog input gain software controllable	-	-
Audio output (48kHz PCM audio)			
Analog line / Headphone	-	2ch 48kHz	2ch 48kHz
HDMI	2 or 8 depending on 8	-	2ch 48kHz
SDI In	12ch 24-bit	12ch 48kHz 16-bit	-
Balanced Line (XLR)	2ch balanced analog. Line +24dBu / mic -40 dBu. 96 dB SNR, analog input gain software controllable	-	-
Mic Level	-40db Analog Gain, Line +24dB	-	-
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 - Master and Slave	LANC control - Slave	LANC control - Slave
Recording			
Supported media (Approved List Only)	4K / HD (50/60/120p) CFast SSD 2.5" Raided HDD (5,400 to 10,000rpm)	HD Atomos CF Fast SSD 2.5" HDD (5,400 to 10,000rpm)	SSD 2.5" HDD (5,400 to 10,000rpm)
Master caddy case	Master Caddy 2 (included) 75mm x 105mm x 12mm Raided disc caddy (optional) 75 x 115 x 25	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
Accessories included	Main unit, AC Adapter, Master Caddy 2 x 5, Battery x 1, Battery charger, Lemo to XLR cable, Docking station, Rugged carry case	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	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, Master Caddy 2 Raid, Powerstation, D Tap adapter, CFast adapter	5 x Master caddy cases, Sunhood, D-Tap adapter, Carry cases, Canon & Nikon adapter plates, Connect H2S converter, Connect S2H converter	5 x Master caddy cases, Sunhood, D-Tap adapter, Carry cases, Canon & Nikon adapter plates, Connect H2S converter, Connect S2H converter
Our future proof platform (Powerful Generation 2 Processor, Sata 3 @ 6Gb/s, Large FPGA with upgradability) is designed for the following in the future	12G-SDI 4K 60/50p Support Apple ProRes HD 4:4:4 10-bit 3D LUTs FS700 RAW decode Full 4K - 4096 x 2160 support		

All specifications correct when published, subject to E&OE.

NINJA 2	NINJA STAR	RONIN	SPECIFICATIONS
Realtime hardware encoding			
-	-	-	4K-UHD 3840x2160 8/10-bit 4:2:2 to
Apple HQ 422 LT	DNxHD 220/220x 145 36	Apple HQ 422 LT	DNxHD 220/220x 145 36
Onboard processing			
50i from 25PSF > 25P (2:2 Pulldown) 60i from 30PSF > 30P (2:2 Pulldown) 60i from 24P > 24P (3:2 Pulldown) 60i from 23.98P > 23.98P (3:2 Pulldown)	50i from 25PSF > 25P (2:2 Pulldown) 60i from 30PSF > 30P (2:2 Pulldown) 60i from 24P > 24P (3:2 Pulldown) 60i from 23.98P > 23.98P (3:2 Pulldown)	50i from 25PSF > 25P (2:2 Pulldown) 60i from 30PSF > 30P (2:2 Pulldown) 60i from 24P > 24P (3:2 Pulldown) 60i from 23.98P > 23.98P (3:2 Pulldown)	
Audio input (48kHz PCM audio)			
2ch 48kHz	2ch 48kHz (no gain control)		Analog Line
2ch 48kHz	2ch 48kHz		HDMI
-	-	12ch 48kHz 16-bit	SDI
-	-	2ch balanced analog 48kHz 16-bit +24dBu clipping level, 96 dB SNR, adjustable input gain (-12dB)	XLR
Audio output (48kHz PCM audio)			
2ch 48kHz	2ch 48kHz	2ch 48kHz	Analog line / Headphone
2ch 48kHz	2ch 48kHz	-	HDMI
-	-	12ch 48kHz 16-bit	SDI In
-	-	2ch balanced analog 48kHz 16-bit +24dBu clipping level, 96 dB SNR, level settable (+18dBu / +24dBu)	Balanced Line (XLR)
-	-	-	Mic Level
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
Recording			
SSD 2.5" HDD (5,400 to 10,000rpm)	Atomos CFast	SSD 2.5" HDD (5,400 to 10,000rpm)	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
Main unit, Universal battery charger 110-240V, docking station & leads, 2 x master caddy cases, 1 x Atomos 2600mAh battery	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, Carry cases, Canon & Nikon adapter plates, Connect H2S converter, Connect S2H converter	D-Tap adapter, Canon & Nikon adapter plates, Connect H2S converter, Connect S2H converter, CFast cards, Atomos specialty HDMI cables	Rack mount adapter, #RU high, holds 2ea, Connect H2S converter, Connect S2H converter	Optional extras
Our future proof platform (Powerful Generation 2 Processor, Sata 3 @ 6Gb/s, Large FPGA with upgradability) is designed for the following in the future			