





SPECIFICATIONS	 SHOGUN	 SAMURAI BLADE	 NINJA BLADE
Weight			
Without batteries & HDD	720g/25oz (without batteries & HDD)	345g/12oz	315g/11oz
With batteries & HDD	994g/35oz (with batteries & HDD)	619g/22oz	595g/21oz
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	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 3hrs	2600mAh - up to 4hrs	2600mAh - up to 4hrs
	5200mAh - up to 5hrs	5200mAh - up to 8hrs	5200mAh - up to 8hrs
	7800mAh - up to 8hrs	7800mAh - up to 12hrs	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 3840 x 2160p 24/25/30	1280 x 720p 50 1920 x 1080i 50/60 1920 x 1080p 24/25/30 3840 x 2160p 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 2160p 24/25/30	720p 50 1080i 50/60 1080psf 24/25/30 1080p 24/25/30 2160p 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, 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

 NINJA 2	 NINJA STAR	 RONIN	SPECIFICATIONS
Weight			
300g/13oz	130g/4.6oz	1.9kg/4lb 3oz	Without batteries & HDD
670g / 24oz	230g/8.1oz		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	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 10hrs	2600mAh - up to 5hrs	2600mAh - up to 4hrs	Battery time (based on 7.4V)
5200mAh - up to 20hrs	5200mAh - up to 9hrs	5200mAh - up to 8hrs	
7800mAh - up to 30hrs	7800mAh - up to 14hrs	7800mAh - up to 12hrs	
-	-	12V @ 0.5A for powering optional accessories	DC Out
Primary-secondary battery system Change batteries without losing power Loop batteries continuously	-	Primary-secondary battery system Change batteries without losing power Loop batteries continuously Built in charger, charges attached Atomos batter-ies 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 3840 x 2160p 24/25/30	1280 x 720p 50 1920 x 1080i 50/60 1920 x 1080p 24/25/30 3840 x 2160p 24/25/30	1280 x 720p 50 1920 x 1080i 50/60 1920 x 1080p 24/25/30 3840 x 2160p 24/25/30	HDMI to HDMI
720p 50 1080i 50/60 1080psf 24/25/30 1080p 24/25/30 2160p 24/25/30	720p 50 1080i 50/60 1080psf 24/25/30 1080p 24/25/30 2160p 24/25/30	720p 50 1080i 50/60 1080psf 24/25/30 1080p 24/25/30 2160p 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	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 24bit		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 24bit		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		LANC control		
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" Raided HDD (5,400 to 10,000rpm)	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, GH4 battery plate, A7s battery plate		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, 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 4KP60/50 Support 4:4:4 10bit 3D LUTs FS700 RAW decode Full 4K - 4096 x 2160 support						

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		Apple HQ 422 LT	DNxHD 220/220x 145 36	1920x1080 8/10-bit 4:2:2 to	
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		-				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	