









SPECIFICATIONS	SHOGUN 	SAMURAI BLADE 	NINJA BLADE 
<b>Realtime hardware encoding</b>			
<b>4K-UHD 3840x2160 8/10-bit 4:2:2 to</b>	Apple ProRes: HQ, 422, LT DNxHR: HQX, HQ, SQ, LB	Lossless Cinema DNG* (data rate camera dependent)	-
<b>1920x1080 8/10-bit 4:2:2 to</b>	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
<b>Onboard processing</b>			
<b>Pulldown removal</b>	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)
<b>Audio in/out (48kHz PCM audio)</b>			
<b>HDMI</b>	2 or 8ch 24-bit, camera dependent	-	2ch 48kHz 16-bit
<b>SDI</b>	12ch 48kHz 24-bit	12ch 48kHz 16-bit	-
<b>Audio</b>	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
<b>Remote start/stop</b>			
<b>HDMI</b>	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard	-	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	LANC control - Slave
<b>Recording</b>			
<b>Supported media (Approved List Only)</b>	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)
<b>Master caddy case</b>	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
<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, FCP7 supported with conversion (Adobe compatible)	FCPX XML native, FCP7 supported with conversion (Adobe compatible)	FCPX XML native, FCP7 supported with conversion (Adobe compatible)
<b>Accessories included</b>	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
<b>Optional extras</b>	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
<b>Realtime hardware encoding</b>			
-	-	-	<b>4K-UHD 3840x2160 8/10-bit 4:2:2 to</b>
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	<b>1920x1080 8/10-bit 4:2:2 to</b>
<b>Onboard processing</b>			
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)	<b>Pulldown removal</b>
<b>Audio in/out (48kHz PCM audio)</b>			
2ch 48kHz 16-bit	2ch 48kHz 16-bit (no gain control)	-	<b>HDMI</b>
-	-	12ch 48kHz 16-bit	<b>SDI</b>
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)	<b>Audio</b>
<b>Remote start/stop</b>			
Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard	-	<b>HDMI</b>
-	-	SDI trigger camera selectable	<b>SDI</b>
-	-	LANC control Atomos serial control protocol	<b>Other</b>
<b>Supported formats (in/out)</b>			
SSD 2.5" HDD (5,400 to 7,200rpm)	Atomos CFast & approved 3rd party CFast	SSD 2.5" HDD (5,400 to 7,200rpm)	<b>Supported media (Approved List Only)</b>
Master Caddy 1 (included) 75mm x 105mm x 12mm	-	Master Caddy 1 (included) 75mm x 105mm x 12mm	<b>Master caddy case</b>
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	<b>Master caddy dock</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>Supported applications</b>
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)	<b>XML support</b>
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	<b>Accessories included</b>
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	<b>Optional extras</b>