

NINJA ASSASSIN PRODUCT INFO SHEET

- UPDATED SEPTEMBER 2015



Ninja Assassin extends the Atomos Ninja line up in to the realms of 4K UHD and 1080 60p. Combining professional 4K/HD recording, 7" 1920x1080 monitoring, advanced playback and editing in a compact, lightweight, affordable add-on to existing DSLR and Mirrorless cameras.



RECORD 4K UHD & HD 60P TO HOLLYWOOD EDITING STANDARDS

Record 4K UHD 30p or HD 60p direct from the sensor to visually lossless, ready-to-edit Apple ProRes and Avid DNxHR.

INCREASED COLOR ACCURACY

Bypass the internal camera compression to achieve increased 4:2:2 color accuracy and 10-bit color resolution in Professional Edit friendly codecs like ProRes and DNxHR.

HIGH RESOLUTION, ACCURATE 7" MONITOR WITH VIDEO ANALYSIS TOOLS

The class leading 7" SuperAtom IPS calibrated monitor provides a range of easy to use professional monitoring tools (waveform, luma parade, RGB parade, vectorscope) on a high resolution (1920 x 1200) high pixel density (325ppi) screen to ensure perfect shot setup every time.

NO RECORD TIME LIMIT

Recording externally to the camera puts an end to the traditional 30min recording barrier on DSLR and Mirrorless cameras

FOCUS ASSIST

Focus and Exposure assist tools with 1:1 and 2:1 Zoom for 4K.

4K TO HD DOWN-SCALE

Record your clips in 4K and play them out in HD for use on existing equipment such as TVs, Monitors and Projectors.

APPLY & PREVIEW LUT

Preview and apply LUTs for more creative shooting and simple grades or Film Stock looks, upgrade your own anytime, anywhere.



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Unleash your camera's HDMI

The HDMI output is the key to unleashing your camera's capability, maximizing video image quality by recording your footage directly from the camera's sensor. We then record this pristine image to Hollywood quality Apple ProRes or Avid DNxHR codecs. Which are visually lossless & captured in full resolution frames (1 frame recording) just like film.

Assassinate MPEG Poor Quality

Bypass the highly compressed internal MPEG / h.264 camera compression increasing color resolution (with 4:2:2 color sampling) and color accuracy with 10-bit color (1 Billions Colors).

4K Recording at HD Prices

Harness the power of 2.5" computer storage media, reducing cost and increasing capacity and reliability,

making 4K the same cost as affordable HD today. Recording ProRes 4:2:2 HQ @ 25fps onto 1TB, yields an amazing 3hrs in 4K & 10hrs in HD. Atomos have teamed up with the major HDD and SSD names in the world to ensure availability and reliability you know and trust.

Professional shot setup you can trust

Ninja Assassin provides a range of easy to use professional monitoring tools which include Focus Peaking Assist, 1:1 & 2:1 Zoom with silky smooth image pan & scan, False Color (skin tones), Zebra and Waveform/Vector Scopes for in-depth image analysis. Out of the box the display is color calibrated to REC709 standard and is capable of delivering 100% of sRGB and has a full 1080P resolution with over 320 Pixels per square inch. Shot set up with waveform and vector means accurate color and white balance every time.

Advanced recording capability

- 1) Go back in time with Pre-Roll, up to 8 seconds of HD or 2-3 seconds of 4K so you'll never miss that shot
- 2) Video Time-lapse gives enormous creative license with up to 10 different sequences, speed ramp and scheduled start and end times over 24 hrs.

- 3) Anamorphic de-squeeze 2x, 1.5x, 1.33x including anamorphic on Panasonic's GH4
- 4) 4K to HD down convert gives you all the benefits of 4K content with the ability to deliver to existing HD environment.
- 5) 3D LUT's allow you to create a specific signature look or even recreate classic film stock instantly, with 50/50 3D/Normal split view. Monitor on screen, burn into a recording or output over the HDMI out.
- 6) An additional 3.5mm analog audio input allows connectivity from analog mixers or microphones locked frame accurately to your video.

Pipeline to your Timeline

Atomos increase the speed of your end to end workflow, allowing more time for creativity. Make edit decisions on the fly and in review with a choice of 10 tags. You can start to mark clips while you record and then review, cut and tag in playback mode. You can even create a play list of your favorite clips and instantly review the action with clients either both on the Assassin or out to a 4K or HD big screen TV/ Monitor. Marked in and out points are carried right through to your edit in your favorite NLE. Whether you are Mac or PC, Apple, Avid or Adobe, we support you.

NINJA ASSASSIN SPECIFICATIONS

Weight		Onboard processing	
Without batteries & media	430g 15.16oz	Pulldown removal	1080pSF 24/25/30pSF > 24/25/30p (2:2 pulldown) 1080i 60 > 24p (3:2 pulldown)
With batteries & media	702g 24.2oz	4K UHD to HD down convert	On HDMI Loop out REC & Playout
Dimensions (W x H x D mm)	196 x 110 x 47mm, 7.7 x 4.3 x 1.85"	Audio in/out (48kHz PCM audio)	
Construction	High quality lightweight ABS Polycarbonate for durability & portability	HDMI	2 or 8ch 24-bit, camera dependent
Outer Protection	Included Silicon Bumper for drop and usage protection	Analog Audio	Line in / Headphone out 2ch 48kHz 16-bit
Power		Processing	Gain control on headphone and Line in
Operating power	10 - 20W	Audio Delay	Delay setting +1 to 99 Frames
Compatible batteries	NP series, D-Tap and supporting accessories	Remote start/stop	
Input voltage (battery)	6.2V to 16.8V	HDMI	Auto HDMI Trigger
Battery time (based on 7.4V)	5200mAh - up to 1.5hrs (monitor & record 4K) 7800mAh - up to 2.2hrs (monitor & record 4K)		Supported Protocols - Canon, Sony, Atomos Open Standard Atomos Open Trigger & Timecode Standard supported by Panasonic, Ikegami, JVC, Samsung
DC In	1 x DC in (6.2 - 16.8V)	Other	LANC control - Slave
Continuous power * Patent pending	via optional Power Station	HDMI Embedded Timecode	
Touch Screen		HDMI	Embedded Timecode from Camera or video device
Size	7.1"		Supported Protocols - Canon, Sony, Atomos Open Standard Atomos Open Trigger & Timecode Standard supported by Panasonic, Ikegami, JVC, Samsung
Resolution	1920 x 1200	Playback	
PPI	320	Playlist	Yes - favorites, selected, both or all clips
Aspect ratio	16:9 native	Playback controls	Playback/pause, loop, frame by frame, scrub, 2x & 4x speed.
Color standard	REC709 HDTV	Recording	
Look up table (LUT) support	3D/1D LUT (on screen, on output, in recording, split screen view)	Pre Roll record	Yes (HD 8s, 4K 2s)
Technology	SuperAtom IPS panel (capacitive touch).	Custom time lapse	Yes Keyframable up to 10 video and single frame Intervals, Can be triggered from internal clock.
Calibration	Calibration in factory to Rec.709. InField Calibration with Optional Atomos/Datacolor Spyder Calibration Software download provided	Meta data tagging	Yes (10 internal tags available) Favorite, Reject, Talent 1, Talent 2, Over Exposed, Color Correct, Bad Audio, Cut Away, Close up, Wide Shot
Video Input		Supported media (Approved List Only)	4K / HD (50/60/120p) SSD 2.5", HDD (7,200 up to 1080p60), CFast 2.0 (Sata III to CFast 2.0 adapter required) HD (24/25/30p) SSD 2.5", HDD (5,400 up to 1080p30), CFast 1.0 (Sata III to CFast 1.0 adapter required)
HDMI	1 x HDMI (1.4b)	Master caddy case	Master Caddy II (included) 75mm x 105mm x 12mm
Signal	Uncompressed true 10-bit or 8-bit to 10-bit 422 sampling (camera dependent)	Master caddy dock	2.5" SATA to USB 2.0/3.0 (optional accessory) up to 450MB/s Read/Write
Video output (play out)		Supported applications	Supported Applications FCPX/FCP7+ / Media Composer 5.0+ / Premiere 5.5+ / EDIUS 6.0+ / Vegas Pro 10+ / Lightworks / Autodesk Smoke 2015
HDMI	1 x HDMI (1.4b)	XML support	FCPX XML native, FCP7 supported with conversion (Adobe compatible)
Signal	Uncompressed true 10-bit or 8-bit to 10-bit 422 sampling (camera dependent)	Whats in the Box	
Supported loop out formats		Included in the box	Ninja Assassin unit, EVA soft carry case, 9V-3A AC adapter, Master Caddy II x 1, Red Ninja Assassin Armor Bumper, Quickstart guide
HDMI to HDMI	HD - 720p 50/60, 1080i 50/60, Full HD - 1080p 24/25/30/50/60/120*, 2160p 24/25/30 4KUHD - 2160p 24/25/30	Accessories	
Supported formats (Record & Playback)		Optional extras	Master Caddy II x 5, D-Tap adapter, 5200 mAh battery, Battery charger, SATA 3/2 to USB 3/2 HDD/SSD docking station, HDMI cables, Sunhood, Power Station, Spyder calibration
4K-UHD 3840x2160 8/10-bit 4:2:2 to	Apple ProRes: HQ, 422, LT DNxHR: HQX, HQ, SQ, LB	Warranty	
1920x1080 8/10-bit 4:2:2 to	10-bit Apple ProRes: HQ, 422, LT 10-bit DNxHD: 220x, 8 bit DNxHD: 220, 145, 36	1 year	
1280x720 8/10-bit 4:2:2 to	10-bit Apple ProRes: HQ, 422, LT 10-bit DNxHD: 220x, 8 bit DNxHD: 220, 145, 36	Extended to 3 years on product registration	