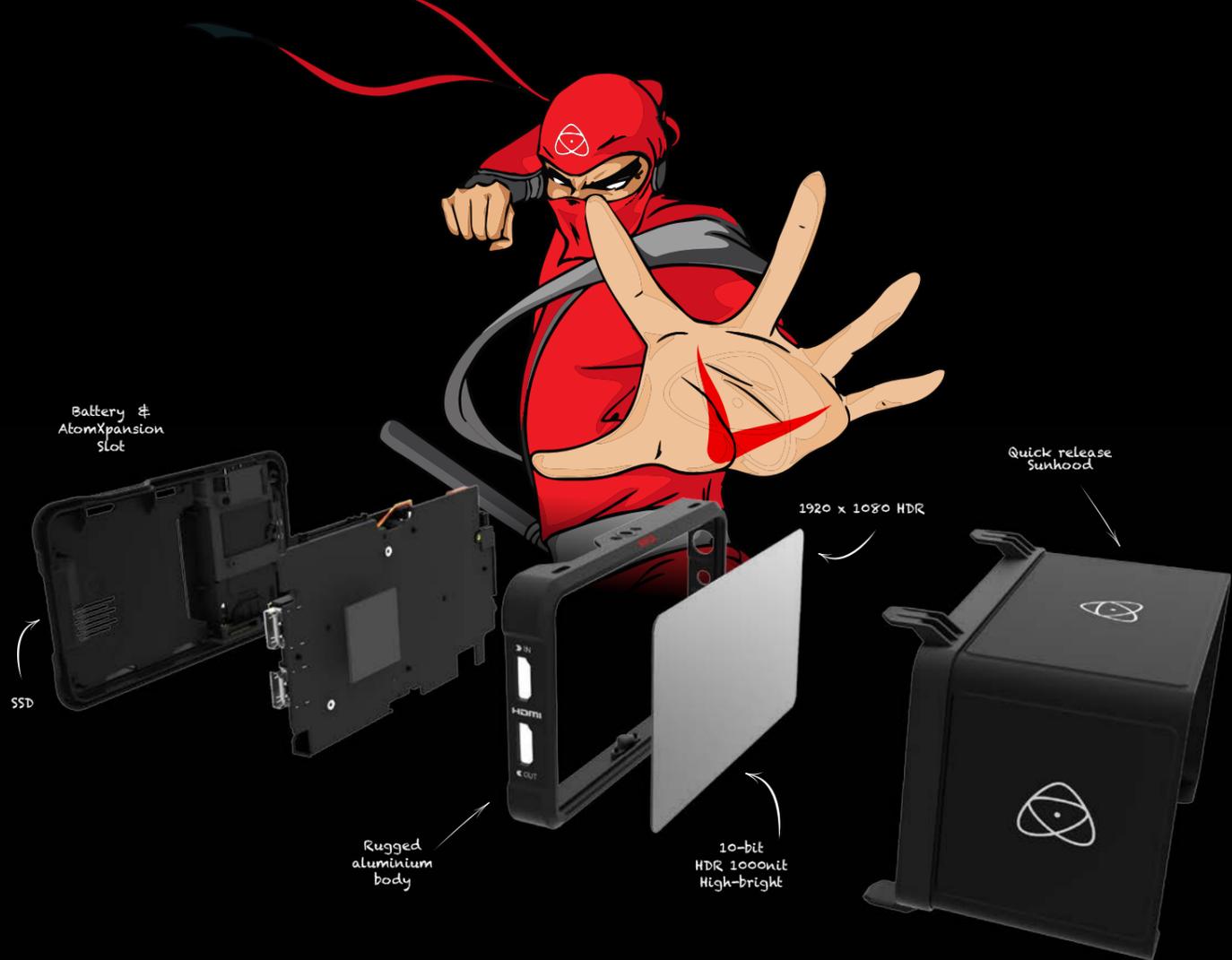




NINJA V



ENTER THE NINJA V

**For Mirrorless, DSLRs and Gaming!
4Kp60 10bit HDR 1000nit 350g Warrior**



Small monitor made perfect

The stunning high bright 5.2 inch 10-bit HDR monitor has an astounding 1000nits of output. Its sleek aluminium body is crafted for maximum durability, weighing in at just 350g it stealthily attaches to any camera. Clearly see your images in daylight on the near edge-to-edge anti-reflection screen.

Record like a Ninja!

Record up to 4Kp60 10-bit HDR video direct from your cameras sensor over HDMI 2.0. Store edit-ready ProRes or DNxHR on affordable SSD drives and bypass internal compression and record time limits. The new compact AtomX Drive drive offers robust affordable storage options.

ProRes

4K
60P

HD
50/60p

AtomHDR

5" HIGH BRIGHT
1000 nit

HDMI

Avid DNxHR

HDR/SDR perfection every time

The Ninja screen displays a stunning 10+ stops of dynamic range in real time from Log/ PQ/HLG signals. The display can be calibrated for perfect color accuracy every time with playout to HDR or SDR TV's. Clearly see your images in daylight on the near edge-to-edge anti-reflection screen.

Audio inputs

Audio can be input directly from the camera digitally via HDMI, or fed in analogue via a stereo 3.5mm line/mic socket – especially useful for cameras that do not have a mic input.

Endless Open Expansion!

Enhance the Ninja V through the in-built modular expansion slot. Bi-directional high speed video, audio and power are available. Expansion modules will dock onto the battery slot of the unit and offer advanced features.





Weight and Dimensions	
Without batteries & media	320g / 11.28oz
With batteries & media	-
With stand	6.0kg / 13.2lb
Dimensions (W x H x D mm)	151 x 91.5 x 31mm
Construction	Aluminium alloy chassis with ABS Polycarbonate back plate
Mounting points	1/4-20 UNC screw mount; 1x top, 1x bottom
Power	
Operating power	10-19W
Compatible batteries	NP-F series and supporting accessories
Input voltage (battery)	6.2V to 16.8V
Battery time (based on 7.4V)	5200mAh - up to 2hrs (monitor & record 4K +60p) 7800mAh - up to 3hrs (monitor & record 4K 60p)
DC In	-
Continuous power * Patent pending	Continuous power with external adaptor*
Touchscreen	
Size	5"
Resolution / PPI	1920 x 1080 / 427ppi
Aspect ratio	16:9 native
Color Gamut	REC709 HDTV
Look up table (LUT) support	3D LUT (.cube format)
Anamorphic de-squeeze	2x, 1.5x, 1.33x, Panasonic 8.3
Technology	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional calibration unit
HDR	
AtomHDR	Yes
Supported Log Formats	Sony SLog2 / SLog3, Canon CLog / CLog 2, CLOG3, Arri Log C, Panasonic Vlog, JVC JLog, Red LogFilm
HDR Recording (Gamut)	Sony SLog / SLog2 / SLog3, Canon CLog / CLog2 / CLog3, Arri Log CEI160 / LogCEI200 / LogCEI250 / LogCEI320 / LogCEI400 / LogCEI500 / LogCEI640 / LogCEI800 / LogCEI1000 / LogCEI1280 / LogCEI1600, Panasonic Vlog, JVC JLog1, Red LogFilm / Log3G10 / Log3G12, FujiFilm Flog, PQ10k, HLG
HDR Monitoring (Gamma)	Sony SGamut / SGamut3 / SGamut3.cine / BT2020 Canon Cinema / DCI P3 / DCI P3+ / BT2020 Panasonic V Gamut Arri Alexa Wide Gamut Rec709 JVC LS300 Red DragonColor / DragonColor2 / RedColor2 / RedColor3 / RedColor4 / RedWideGamut
HDR Monitoring (Gamut)	Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 on screen Wide Color Gamut (SGamut / SGamut3 / SGamut3.cine / Canon Cinema / BT2020 / DCI P3 / DCI P3+ / Panasonic V Gamut / Arri Alexa Wide Gamut) mapping to Rec709 / BT2020 / DCI P3 on loop out
Bit depth	10-bit (8+2 FRC)
Brightness	1000nit (+/- 10%)
HDR input (PQ/HLG)	Yes
HDR output (PQ/HLG)	Yes
Video Input (Loop Out)	
HDMI	1 x HDMI (2.0)
SDI	-
Signal	Uncompressed true 10-bit or 8-bit 422 (camera dependent)
Video Output (Play Out)	
HDMI	1 x HDMI (2.0)
SDI	-
Signal	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 24/25/30/50/60/100/120, 2160p 24/25/30/50/60
SDI to SDI	-

Video Signal Conversion		
HDMI to SDI	-	
SDI to HDMI	-	
AtomXpansion Video Audio Power extender In/Out		
Video	Up to 4Kp60	
Audio	12 channels digital 24-bit 96 KHz	
Power	5V-16.6V	
Codec		
Video to ProRes / DNxHR (DNx utilizes a .MOV wrapper)	Brand / Model / Codec	Resolution / Frame rate
	Apple ProRes HQ, 422, LT AVID DNxHR HQX, HQ, SQ, LB	4K DCI; 24/25/30/50/60p 4K UHD; 24/25/30/50/60p 2K 1080p; 24/25/30/50/60/100*/120* 1080i; 50/60i, 720p; 50/60p
Onboard Processing		
Pulldown removal	24/25/30p5F → 24/25/30p (2:2 pulldown) 60i → 24p (3:2 pulldown)	
4K UHD downscaling	Yes - Loop-out and playback	
Audio In/Out (48kHz PCM Audio)		
HDMI	2 or 8ch 24-bit, camera dependent	
SDI	-	
Audio	Line in / Mic in / Headphone out 2ch 48kHz 24-bit	
Headphone out	3.5mm	
Built-in speakers	Yes	
Remote Start/Stop		
HDMI	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard	
SDI	-	
Other	LANC control - Slave	
Playback		
Playlist	Yes	
Genlock / LTC	- / -	
CDNG (recorded content)	N/A	
ProRes (recorded content)	All recorded files can playback. Playback in slow motion	
DNxHR / DNxHD (recorded content)	All recorded files can playback. Playback in slow motion	
Recording		
Pre-roll record	Yes (HD 8s, 4K 2s)	
Custom timelapse	Yes	
Meta data tagging	Yes (10 tags available)	
Supported media	2.5" SSD/HDD compatibility depends on recording format, resolution and frame rate. Visit atomos.com/drives for list of tested and approved drives	
Master caddy case	Master Caddy II (included) 75mm x 105mm x 12mm	
Master caddy dock	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	
XML support	FCPX XML native, FCPX/Adobe limited supported with 3rd party conversion tools	
What's in the Box		
Accessories included	Ninja V unit, Master Caddy II x 1, 12V-3A AC power supply	
Optional extras	Accessory Kit: 2 x battery, 1 x charger, 1 x power supply, EVA case, USB dock, control cable, Dtap cable, Master Caddy x 4, Power supply, Sun hood Power Kit: 2 x battery, 1 x charger, 1 x power supply Other: Atomos HDMI cable, X-Rite i1DisplayPro calibration	
Warranty	1 year. Extended to 3 years on product registration	



Weight & dimensions	
Weight	5.0kg / 11lb
Rack height	3Ru
Rack mounting	Removable rack ears
Dimensions (W x H x D mm)	447 x 152 x 251mm, 17.6 x 6.0 x 9.9" (without rack ears) 490 x 152 x 251mm, 19.3 x 6.0 x 9.9" (with rack ears)
Construction	Steel construction for durability
Cooling	Actively controlled fan with heat sinks
Power	
Operating power (including SSD)	20 - 60W
Redundant PSU	Yes
Compatible batteries	No
DC Out	No
Dual Touchscreens	
Size	7.1" x 2
Resolution / PPI	1920 x 1200 / 320PPI
Aspect ratio	16:9 native
Color Gamut	REC709 HDTV
Look up table (LUT) support	3D LUT (.cube format)
Technology	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional X-Rite unit
Video analysis tools	Luma waveform, RGB parade, Vectorscope, Vectorscope zoom
HDR	
AtomHDR	Yes
Supported Log formats	PQ/HLG - Rec.2100 Sony - SLog/SLog2/SLog3 Canon - CLog/CLog 2/CLog 3 Arri - Log C, Red - 3G10/LogFilm Panasonic - VLog/VLog L JVC - JLog, Fuji - FLog
Supported Gamuts	Sony SGamut / SGamut3 / SGamut3.cine, Canon Cinema / BT2020 / DCI P3 / DCI P3+, Panasonic V Gamut, Arri Alexa Wide Gamut
Bit depth	8-bit
Brightness	4000nit
HDR input (PQ/HLG)	Yes / Yes
HDR output (PQ/HLG)	Yes / Yes
Video Input (Loop Out)	
HDMI	1 x HDMI (1.4b) per channel
SDI	1x 4K-SDI 12G/6G or HD-SDI 3G/1.5G (SMPTE) per channel
Signal	Uncompressed true 10-bit or 8-bit 422 (camera dependent)
Video Output (Play Out)	
HDMI	1 x HDMI (1.4b) per channel
SDI	1x 4K-SDI 12G/6G or HD-SDI 3G/1.5G per channel
Supported Loop Out Formats	
HDMI to HDMI	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/120 2160p 24/25/30
SDI to SDI	720p 50/60, 1080i 50/60 1080p5F 24/25/30 1080p 24/25/30/50/60/120 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 Codecs & Frame Rates (Record & Playback)	
Raw Record	
Sony FS5 & FS5 II, FS7 & FS7 II CDNG**	4K DCI; 24/25/30p 4K UHD; not supported in camera 2K; 24/25/30/50*/60*/100*/120p* 1080i; not supported in camera
Canon C300MKII/C500 CDNG	4K DCI; 24/25/30p 4K UHD; 24/25/30p 2K; not supported in camera. 1080i; not supported in camera
Panasonic VaricamLT CDNG	4K DCI; 24/25/30p 4K UHD; 24/25/30p 2K; not supported in camera. 1080i; not supported in camera
Raw to ProRes / DNxHR	
Sony FS5/FS7/FS700**	4K DCI; 24/25/30p
ProRes (HQ, 422, LT)	4K UHD; Camera dependent
DNxHR (HQX, HQ, SQ, LB)	2K; 24/25/30 - 1080i; Camera dependent
Canon C300MKII/C500	4K DCI; 24/25/30p
ProRes (HQ, 422, LT)	4K UHD; 24/25/30p
DNxHD (HQX, HQ, SQ, LB)	2K/HD; 24/25/30p; Camera dependent

Video to ProRes / DNxHR	
Apple ProRes - HQ, 422, LT AVID DNxHR/DNxHD - HQX, HQ, SQ, LB	4K/2K DCI; Camera dependent 4K UHD; 24/25/30p 1080p; 24/25/30/50/60/100*/120* 1080i; 50/60i 720p; 50/60p
Onboard Processing	
HDMI	24/25/30p5F → 24/25/30p (2:2 pulldown) 60i → 24p (3:2 pulldown)
SDI	Yes - Always on
Analogue audio	On HDMI/SDI loop out (Rec & PlayOut)
4K UHD downscale for HD monitoring	Yes - Loop-out and playback (Not available in RAW)
Audio In/Out (48kHz PCM Audio)	
HDMI	2 or 8ch 24-bit, camera dependent
SDI	12ch 48kHz 24-bit
Analogue audio	2 x XLR in & 2 x XLR out on rear per record channel. Mic or line level with phantom 48V
Processing	Gain control on line in & headphone output
Maximum audio quality	24-bit, 48kHz
Audio delay	Delay setting +1 to 99 frames
Remote Control	
HDMI	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard
SDI	SDI trigger camera selectable
RS422	RS422 machine control
AMP	via Ethernet RJ45 10/100
Serial	Calibration (front)
Timecode	
HDMI	Embedded timecode from camera or video device
SDI	Embedded timecode from camera or video device
LTC In	Yes (LTC loop back)
GenLock In	Yes (GenLock loop back)
Playback	
Playlist	Yes (run down or reverse order) for selected, favorite or all clips
Playback options	Loop in & out markers
CDNG (Recorded content)	No support
ProRes (Recorded content)	All recorded files can playback. Playback in slow motion → 100fps
DNxHR / DNxHD (recorded content)	All recorded files can playback at native rate except 4K DCI which plays back at 24p only. Playback in slow motion → 100fps
Recording	
Dual channel	Record 4K master with HD proxies. Record both ProRes & DNxHR versions, independent dual channel record.
Continuous dual disk record	Single channel 4K / HD recording automatically switches between drive when at capacity
Pre-roll record	Yes (HD 8s, 4K 2s)
Custom timelapse	Yes (Key frameable up to 10 video and single frame intervals, can be triggered from internal clock).
Meta data edit tagging	Yes (10 tags available)
Supported media (Approved List at atomos.com/drives)	Select SSD - CDNG (4Kp30) Select SSD - Video (4Kp30, HDp120) Select SSD/HDD - Video (1080 30p, 720 60p)
Dual drive slots	2 (1 per record channel)
Drive connection types	SATA III
Master caddy case	Master Caddy II (included) 75mm x 105mm x 12mm
Master caddy dock	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/DaVinci Resolve
XML support	FCPX XML native, FCPX/Adobe limited supported with 3rd party conversion tools
What's in the Box	
Accessories included	Shogun Studio unit, 2x Rack ears with screws, 5x Master II Caddies, 4x Rubber feet, 2x Large rubber feet, 2x IEC power cable, 1x Screen cleaning cloth
Optional extras	Master Caddy II x 5, X-Rite calibration, Atomos HDMI cables
Warranty	1 year. Extended to 3 years on product registration

Specifications correct at time of printing E&OE.
 24/30/60 frame rates also include 23.98/29.97/59.94 frame rates for all resolutions
 * Available in a future firmware update.
 ** No HDMI Spec for 2K DCI
 ^ From supported HDMI sources such as gaming consoles & graphics cards
 ^^ Optional unit (XDCA-FS7) or paid update needed for Raw output