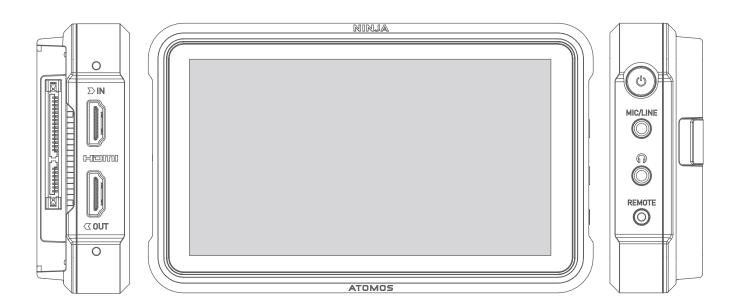# NINJA V

5" 4Kp60 HDR Monitor Recorder

The small monitor made perfect

The Ninja V has a stunning high bright 5.2 inch HDR monitor with 1000nits of output. See your images clearly in daylight on the near edge-to-edge anti-reflection screen. The sleek aluminium body is crafted for maximum durability, weighing in at just 360g it stealthily attaches to any camera.

Record like a Ninja up to 5.9K RAW

Record up to 4Kp60 10-bit HDR video direct from your camera's sensor and up to 5.9Kp30 12-bit RAW over HDMI 2.0. Capture edit-ready ProRes and DNx or to compressed H.265* on SSD drives, bypassing the internal compression and record time limits. AtomX SSDmini drives offer robust, low-profile, affordable storage options.

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 on-going color accuracy every time. You can also play out directly to HDR or SDR TVs.

Flexible mounting options

The Ninja V is designed for versatility – including multiple mounting options to suit just about every possible scenario. The unit includes both 3/8-16 and 1/4-20 screw mounts top and bottom, along with ARRI's anti-rotational pin system, ensuring it's secure on gimbals, and compatible with the latest mounting solutions from the AtomX range or a wide range of 3rd party accessories.

Audio inputs

Audio can be input directly from the camera digitally via HDMI, or analogue via the stereo 3.5mm mic/line socket – especially useful for cameras without a mic input. Audio monitoring options then allow you to select the channel to monitor.

Record direct from your camera's sensor

Atomos works with camera manufacturers to ensure that we monitor and record the highest quality image with the widest dynamic range and deepest color for creativity in post. We work tirelessly to simplify complex technology, supporting log curves from Sony, Panasonic, Canon and Nikon through to RED and ARRI – so HDR and SDR shooting is simple. We record to over 30 different video formats including ProRes, Avid DNx and optionally to H.265*. Now you can focus on story-telling and business, not on technology.

Modular expansion

The modular expansion slot on Ninja V provides bi-directional high-speed video, audio and power for expansion modules, so you can expand the functionality of your device as your workflow needs change. The AtomX SDI module adds 12G SDI I/O as well as SDI <->HDMI cross conversion. The AtomX SYNC module allows wireless timecode sync with cameras, audio recorders, and timecode systems. The AtomX CAST module transforms the Ninja V into a a fully functional 4 input HDMI switcher with an integrated multi-view monitor, physical buttons and a USB-C output. Easily add titles, logos & graphics and switch, stream & record the output at the same time.

*Via paid codec activation.
Tech specs over page. **More information: atomos.com/ninjav**

NINJA V - Technical specifications

Weight and Dimensions

Without batteries & media	360g / 12.7oz
Dimensions (W x H x D mm)	151 x 91.5 x 31.5mm
Construction	Aluminium alloy chassis with ABS Polycarbonate back plate
Mounting points	Anti-rotational 3/8-16 screw mount points, 1/4-20 screw mount adaptor installed. 1x top and 1x bottom.

Power

Operating power	10-22W
Compatible batteries	Atomos NP-F series and supporting accessories
Input voltage (battery)	5.8 - 7.2V
Battery time (based on 7.4V)	5200mAh - up to 2hrs (monitor & record 4K 60p) 7800mAh - up to 3hrs (monitor & record 4K 60p)
DC In	Via DC Jack on Battery Eliminator
Continuous power	Enabled by optional AtomX SYNC Expansion Module

Touchscreen

Size	5.2"
Resolution / PPI	1920 x 1080 / 423ppi
Aspect ratio	16:9 native
Color Gamut	REC709 HDTV
Look up table (LUT) support	3D LUT (.cube format)
Monitoring Tools	Waveform, RGB parade, Vectorscope, 1:1 for 4k, 2x Zoom, Focus Peaking, False Color, Zebra, Blue Only, Cine & Social Frame Guides, Safe Areas, 9 Grid
Anamorphic de-squeeze	2x, 1.5x, 1.33x, Panasonic 4:3
Technology	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional calibration unit

HDR

AtomHDR	Yes
HDR Monitoring/Recording (Gamma)	Sony SLog / SLog2 / SLog3 Canon CLog / CLog2 / Clog3 ARRI Log CEI160 / LogCEI200 / LogCEI250 / LogCEI320 / LogCEI400 / LogCEI500 / LogCEI640 / LogCEI800 / LogCEI1000 / LogCEI1280 / LogCEI1600 Nikon N-Log Panasonic V-Log JVC J-Log1 Olympus OM-Log400 / Flat Lecia L-Log Z Cam Z-Log2 RED LogFilm / RED Log3G10 / RED Log3G12 FujiFilm F-log PQ (HDR10), HLG
HDR Monitoring/Recording (Gamut)	Sony SGamut / SGamut3 / SGamut3.cine, Canon Cinema, DCI P3 / DCI P3+, Nikon NLog, Panasonic V-Gamut, Arri Alexa Wide Gamut, Rec709 / BT.2020, FujiFilm F-Gamut, JVC LS300 RED WideGamut / RED DragonColor / DragonColor2 / RED Color2 / RED Color3 / RED Color4 /
Bit depth	10-bit (8+2 FRC)
Brightness	1000nit (+/- 10%)
HDR input (PQ/HLG)	Yes
HDR output (PQ/HLG)	Yes

Video Input

HDMI	1 x HDMI (2.0)
HDMI RAW	Apples ProRes RAW up to 6K
SDI	Optional via AtomX SDI module
SDI RAW	Optional with AtomX SDI module + SDI RAW activation
Signal	Uncompressed true 10-bit or 8-bit 422 (camera dependent)

Video Output (Play Out)

HDMI	1 x HDMI (2.0) 4k p60
SDI	Optional via AtomX SDI module
Signal	Uncompressed 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, 4kUHD/4kDCI 24/25/30/50/60
SDI to SDI	Optional via AtomX SDI module

Gamma/Gamut conversion

Gamma/Gamut conversion	Convert loop out to PQ/HLG and BT.2020/DCI-P3/D65-P3
3D LUT down stream	Loop out

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. DNxHD 220x, 220, 145, 36 H.265 (Optional)	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
Apple ProRes RAW	ProRes RAW, ProRes RAW HQ	Up to 5.9Kp29.97 via HDMI (supported cameras)

Onboard Processing

Pulldown removal	24/25/30pSF → 24/25/30p (2:2 pulldown) 60i → 24p (3:2 pulldown)
4K DCI → UHD	Yes - Loop-out and playback
4K UHD downscaling	Yes - Loop-out and playback

Audio In/Out (48kHz PCM Audio)

HDMI	2 or 8ch 24-bit, camera dependent
SDI	12ch 24-bit input dependent via optional AtomX SDI module
Audio	Line in / Mic in
Headphone out	3.5mm Headphone out 2ch 48kHz 24-bit
Built-in speakers	No

Remote Start/Stop

HDMI	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard - Panasonic, Nikon, Olympus, Fuji, Leica
SDI	Optional via AtomX SDI module
Other	LANC control via optional USB to serial cable, RF/Bluetooth LE via optional AtomX SYNC module

Playback / Slow motion

Playlist	Yes, create playlists from full or sub clips
Genlock / LTC	Yes - wireless via optional AtomX SYNC module
ProRes RAW (recorded content)	Yes, with Linear PCM audio
ProRes (recorded content)	Yes, with Linear PCM audio
DNxHR / DNxHD (recorded content)	Yes, with Linear PCM audio
H.265 (recorded content)	Yes, with Linear PCM audio

Recording

Pre-roll record	Yes (HD 8s, 4K 2s) not available in RAW
Custom timelapse	Yes
Meta data tagging	Yes (10 tags available)
Supported media	AtomX SSDmini and MasterCaddy II with 2.5"SSD/HDD (Note: drive will extend beyond drive slot). Supported CFAST II cards via optional AtomX CFast Adapter. Visit atomos.com/drives for list of approved media.
Master caddy	Master Caddy II (included) 75mm x 105mm x 12mm
Master caddy dock	2.5" SATA to USB 2.0/3.0/USB-C 3.1 (not included)

Supported applications

XML support	Cut tag EDL in FCP XML, Adobe limited support with 3rd party conversion tools
Apple ProRes RAW	Apple FCP/FCP7, Adobe Premiere, After Effects, Avid Media Composer, GrassValley Edius, Sony Vegas Pro, Assimilate Scratch, Baselight Film Light, Lightworks / Autodesk Smoke
Video Codecs	All Applications with support for Apple ProRes and Avid DNX in .MOV wrapper

What's in the Box

Included	Ninja V unit, Master Caddy II x 1, 12V-3A AC power supply, 1x Battery Eliminator
Optional extras	Power Kit: 2 x battery, 1 x charger, 1 x power supply AtomX Sunhood for Ninja V AtomX Screen Protector for Ninja V AtomX SSDmini Handle AtomX SDI module, AtomX SYNC module, AtomX CAST Other: Atomos HDMI cables Master Caddy USB A / USB-C to SATA Dock Calibrite i1DisplayPro calibration
Warranty	1 year. Extended to 3 years on product registration

More information, user manual & firmware: **atomos.com/ninjav**