

Introduction

NINJA V

Thank you for choosing the Atomos Ninja V 5 inch 4Kp60 HDR Monitor Recorder. Featuring a super high-resolution screen in a lightweight aluminium alloy chassis, and an array of essential production tools including waveform monitoring, vectorscope, focus assist and the world's leading support for HDR monitoring; Ninja V will give you the creative and commercial advantage you've been looking for.

This user manual will get you up to speed with all the amazing features packed into the Ninja V that will assist you during a shoot and speed up your workflow on set and in post production.

Stay up-to-date with the latest information and software by registering your product today

www.atomos.com/support



ProRes

4K
60P

HD
50/60p

AtomHDR

5" HIGH BRIGHT
1000 nit

HDMI

Avid DNxHR

1. What's included

NINJA V

Your Ninja V includes base accessories to get you started, such as a mains power supply and a media Master Caddy. Additionally you will need a 2.5" Solid State Drive (SSD) or AtomX SSDmini, a compatible HDMI cable (Camera out/Ninja in) and compatible batteries. Optional AtomX accessories including power and accessory kits and are also available. Visit the Atomos website for the latest accessory options.

Not all drives are compatible with the Ninja V.
For the most up-to-date information please visit:
www.atomos.com/drives

Included:

- **Ninja V**
- **1 x Master Caddy II + screws**
- **12V-3A AC power supply**
- **Battery Eliminator**
- **Ninja V Quick Start Guide**



13. Technical Specifications

Weight and Dimensions	
Without batteries & media	360g / 12.7oz
With batteries & media	-
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)	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	Continuous power with external adaptor* * Patent pending
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)
Anamorphic de-squeeze	2x, 1.5x, 1.33x, Panasonic 4:3 *Support for 2 x 4:3 4k 50/60p in future firmware update
Technology	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional calibration unit
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 Panasonic Vlog JVC J-Log1 RED Log3G10 / RED LogFilm Fujifilm F-log Nikon N-Log PQ10k HLG
HDR Monitoring/Recording (Gamut)	Sony SGamut / SGamut3 / SGamut3.cine Canon Cinema / DCI P3 / DCI P3+ Nikon BT2020 Panasonic V Gamut Arri Alexa Wide Gamut Rec709 / BT.2020 JVC 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)
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, 4kUHD/4kDCI 24/25/30/50/60
SDI to SDI	-
Gamma/Gamut conversion	Convert loop out to PQ/HLG and BT.2020/DCI-P3/Rec709

Video Signal Conversion		
HDMI (4K > HD)		Record/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	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	24/25/30pSF > 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, input device dependent	
SDI	-	
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	-	
Other	LANC control - Slave	
Playback / Slow motion		
Playlist	Yes	
Genlock / LTC	Yes - with optional AtomX Sync	
CDNG (recorded content)	N/A	
ProRes (recorded content)	Yes	
DNxHR / DNxHD (recorded content)	Yes	
Recording		
Pre-roll record	Yes (HD 8s, 4K 2s)	
Custom timelapse	-	
Meta data tagging	Yes (10 tags available)	
Supported media	Support for AtomX SSDmini and MasterCaddy II with 2.5" SSD/HDD (Note: drive will extend beyond drive slot). Please visit atomos.com/drives for list of 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/USB-C 3.1 (not included)	
Supported applications	Supported Applications FCPX/FCP7+ / Media Composer 5.0+ Davinci Resolve 8+ / 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		
Included	Ninja V unit, Master Caddy II x 1, 12V-3A AC power supply, 1x Battery Eliminator	
Optional extras	Power Kit: 2 x batteries, 1 x charger, 1 x power supply AtomX Sunhood for Ninja V AtomX Screen Protector for Ninja V AtomX SSDmini Handle Other: Atomos HDMI cables USB-C 3.1 Docking Station / USB 2.0 Docking Station Xrite i1 Display Pro Calibrator and USB to Serial cable	
Warranty	1 year. Extended to 3 years on product registration	

Construction note: Your Ninja V is designed to operate in ambient temperatures up to 40°C/104°F. If you wish to extend the temperature of operation in high temperature conditions, you can choose an SSD drive, and set the TFT brightness to a minimum.

Please note: Specifications are subject to change without notice. All information assumed correct at time of publishing.