



NINJA^V User Manual

EDITION 1: NOVEMBER 2018



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 JLog1 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 Apple ProRes HQ, 422, LT AVID DNxHR HQX, HQ, SQ, LB | Resolution / Frame rate 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-3AAC power supply, 1x Battery Eliminator | |

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.

14. Optional Accessories

Atomos has a wide range of optional accessories to enhance your Ninja V, from basic media requirements through to Sunhoods and mounting arms.

AtomX SSDmini by Angelbird



Angelbird's AtomX SSDmini is custom made for the new Atomos Ninja V and is perfectly compatible with all the other available recorders.

- 500GB
- 1TB

ATOMX

AtomX USB-C 3.1 Dock ATOMDCK004



Team up the USB-C 3.1 Docking station with your AtomX SSDmini or the SSD in your Atomos MasterCaddyII for reduced file transfer times. Max out the transfer speed of your SSD to create more time to focus on your craft and creativity.

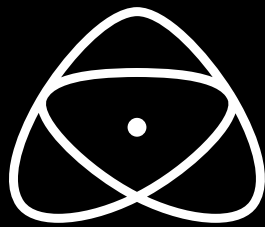
ATOMX

8. Power Kit ATOMPWRKT1





The Atomos Power Kit is ideally suited to the Ninja V. Suitable for use with all other Atomos Recorders.


- 1 x Fast charger
- 2 x 5200 mAh Battery





atomos.com

 /atomosglobal

 @atomos_news

 @Atomos_News

 /AtomosVideo

 /atomosvideo