



# NINJA V

## Weight

Without batteries & media 360g / 12.7oz

With batteries & media -

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 2 x 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 1920 x 1080

PPI 427

Aspect ratio 16:9 native

## AtomXpansion Video Audio Power Extender In/Out

Video Up to 4Kp60

Audio 12 channels digital 24-bit 96KHz

Power 5V-16.6V

## Supported Codecs & Frame Rates (Record & Playback)

**Video to ProRes / DNxHR** **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  
(DNx utilizes a 2K .MOV wrapper) 1080p; 24/25/30/50/60/100<sup>^</sup>/120<sup>^</sup> 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 downscale for HD monitoring 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

## Remote Start/Stop

HDMI Auto HDMI Trigger  
Supported Protocols - Canon, Sony, Atomos Open Standard

## Touchscreen

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, Arri Log C, Panasonic Vlog, JVC JLog, Red LogFilm, FujiFilm Flog
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

## Remote Start/Stop

SDI	-
Other	LANC control - Slave

## Playback

Playlist / Genlock / LTC	Yes / - / -
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 <a href="http://atomos.com/drives">atomos.com/drives</a> (/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

## HDR

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Bit depth 10-bit (8+2 FRC)

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Brightness 1000nit (+/- 10% @ center)

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HDR input Yes / Yes  
(PQ/HLG) Yes / Yes  
HDR  
output  
(PQ/HLG)

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## Video Input/Loop Out

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HDMI 1 x HDMI (2.0)

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SDI -

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Signal Uncompressed true 10-bit or 8-bit 422  
(camera dependent)

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## Video Output (Play Out)

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HDMI 1 x HDMI (2.0)

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SDI -

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Signal Uncompressed true 10-bit or 8-bit 422  
(playback file dependent)

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## Supported Loop Out Formats

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HDMI to HDMI 720p 50/60, 1080i 50/60,  
1080p 24/25/30/50/60/100/120  
2160p 24/25/30/50/60

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SDI to SDI -

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## Video Signal Conversion

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HDMI to SDI -

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SDI to HDMI -

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## Recording

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\* Timelapse feature will be added to next  
firmware upgrade

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## What's In The Box

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Accessories included Ninja V unit, Master Caddy II x 1,  
12V-3A AC power supply, Battery  
Eliminator  
Quick Start guide

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## Accessories

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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,  
Sunhood for Ninja V  
AtomX  
**Power Kit:** 2 x battery,  
1 x charger, 1 x power supply  
**Other:** Atomos HDMI cable,  
X-Rite i1DisplayPro calibration

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## Supported Media

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Please refer to: [www.atomos.com/drives \(/drives\)](http://www.atomos.com/drives (/drives))

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**All specifications correct when published,  
subject to E&OE.**

24/30/60 frame rates also means  
23.98/29.97/59.94 frame rates for all resolution

\* Available in future firmware updates

\*\*\* No HDMI spec for 2K DCI

^ From supported HDMI sources such as  
gaming consoles and graphics cards.