



# NINJA V+

5" 8Kp30 4Kp120 1000nit HDR HDMI Monitor-Recorder



## Key Features

- Capture without limitation in RAW at up to 8Kp30
- Reveal the beauty of the unseen with continuous HFR up to 120p in 4K RAW
- 1000nit 5" HDR display with AtomHDR support for Log inputs and 3D Luts
- HDMI 2.0 offer support for video inputs from a huge range of devices up to 4Kp60 and HD 120p
- Hardware that grows with your needs via the AtomX expansion for additional connectivity and wireless SYNC
- Flexibility of codec choice from ProRes RAW, ProRes, DNx as well as the option to add H.265
- Record to either 2.5" SSD in Master caddy, SSDmini and Cfast II via AtomX CF adaptor
- Kitted out with EVA travel case and 5" slip sleeve to store and clean your Ninja screen

The Ninja V+ is the next stage in the evolution of the multi-award winning Atomos Ninja, delivering up to 8Kp30 and 4Kp120 continuous recording in Apple ProRes RAW while inheriting HDR, 4Kp60 RAW and video as well as HDp120 slow motion from its little brother, Ninja V.

With the ability to capture in 8Kp30 and 4Kp120, the Ninja V+ allows you to stay ahead of the game and ensure that you have the flexibility to grow your system as projects demand. Future proofed quality and formats allow you to stay compatible with newly released and existing cameras, in a world where new cameras are released frequently, and technology is advancing at an incredible pace.

The Ninja V+ takes advantage of new Atomos Silicon AtomIC3, AtomOS 10 and the incredible efficiency of ProRes RAW to deliver these increased resolutions and frame rates. The new formats also integrate seamlessly into the timeline of your existing ProRes RAW or ProRes projects, without huge storage or processing overheads.

## Ready For The Future

The Ninja V+ and Canon R5 deliver a compact and configurable 8K RAW and HDR camera system that is very affordable when compared with other 8K setups. The possibilities you have when shooting in 8K are a true game changer, as Canon and Atomos have just democratized 8K for the masses with no compromise in quality.

## More Power. Less Weight.

Pairing the Ninja V+ with the Canon R5 gives you a powerful yet compact 8K camera package that fits in your hands and can be flexibly built out to suit your needs. It can become the basis of a compact cinema rig or be flown on gimbals and stabilizers.

It's also easy to create an incredibly lightweight setup, as the Canon R5 with a 24mm Cine lens, Ninja V+, NPF battery and media comes in under 3KG/7lb, which can be easily carried by a wide range of aerial drones, as well as vehicles and robot arms.

## Extra Resolution Gives You Creative Flexibility

With the broad canvas of 8K resolution, your options for creative crops into a region of interest allow you to extract multiple 4K shots from a single camera angle. This allows you to create additional shots for cutaways to break up the edit, that are much higher resolution than if the shots were extracted from a single 4K source.

## Stabilize Without Compromise

The incredible resolution of 8K video means that even after cropping into the image as part of the stabilization process, the final shot will likely still have a resolution of 4K or even 6K. This means that it can integrate with your other 8K footage on the timeline, and still look great.

## Razor Sharp Screenshots

High resolution screenshots from 8K full frame cameras also offer the ability to create scene plates for small scale virtual production stages or use in other content platforms.



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### See The Unseen

The Ninja V+ allows you to capture content at up to 4Kp120 in pristine ProRes RAW for high frame rate video that has exceptional image quality. This is a great alternative to using the internal compressed codecs on your camera for high frame rate recording, as they can apply higher levels of colour compression and subsampling, leading to potential artifacts or limitation in the edit/grade.

### Z CAM E2 / E2-M4 Series Cameras

Capture and visualize the unseen with 4Kp120 recording at up to ProRes RAW from the Ninja V+ Z CAM E2 /E2-M4 models, with more models to follow. Fully harness the dynamic range of the sensor, capture every aspect of motion and movement directly via RAW over HDMI. Add to this the benefit of being able to play back the high frame rate video captured on the Ninja V+ at various play back speeds to preview the adjustments you can make on your NLE timeline.

### An Incredible Codec Arsenal

With the flexibility of providing options for RAW, visually lossless edit ready files, and proxy/sharable files, you have the ability to scale your needs for quality, and file size.

- ProRes RAW – supporting 16bit RAW outputs from camera via HDMI and optionally via SDI
- ProRes - An industry standard edit-ready codec from Apple with scalable levels of compression.
- Avid DNx - An industry standard edit-ready codec for Avid editors with scalable levels of compression.
- H.265 (HEVC) - The highly efficient compressed codec allows you to create high-quality files with a low bit rate and small file size for sharing. You can also create 4K HDR 10-bit deliverables and have the option to 'bake in' LUTs to achieve the final pixel LOOK without the need to grade the footage.

### AtomX Modules

#### AtomX SDI

Upgrade your Connection options

The AtomX SDI Expansion Module locks into place via the modular expansion slot and adds the quality and convenience of SDI connectivity to your Ninja V+, which allows you to monitor and record SDI video up to 4Kp60 from a range of professional cameras and video sources.

#### HDMI / SDI

Cross Conversion

When an AtomX SDI Expansion module is attached to your Ninja V+, you can cross convert HDMI and SDI signals. This means that where you have an HDMI source connected to your Ninja V+, you can output an SDI signal from your AtomX SDI Expansion module.

#### AtomX SYNC

Making multi-camera mainstream

The AtomX SYNC module brings wireless timecode, sync and control technology to the Ninja V+, and you can connect multiple AtomX SYNC enabled Ninja V+ units to create a Timecode Systems powered multi-camera sync network. Remotely trigger frame accurate record start/ stop recording, monitor, battery and disk capacity information from the SYNC server configured Ninja V+.

The SYNC module provides continuous power to keep your Ninja V running while you change the main battery or DC input.

#### Price

US\$1,499 ex. tax | €1,499 ex. tax

# 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 31mm
Mounting Points	Anti-rotation 3/8 with 1/4" adapter, top and bottom
Environmental	
Ambient Operating Temperature	Up to 40°C
Construction	
Body	Aluminium alloy chassis with ABS Polycarbonate back plate
Tally Light	Rear and front
Cooling	Heat Sink and actively controlled fan with user selectable modes in menu
Multi-function Button	Power / lock screen
AtomXpansion Slot	Yes
Power	
Operating Power	10 - 22W
Compatible Batteries	NPF L series and supporting accessories
Input Voltage (Vattery)	5.8 - 7.2V (Battery)
Battery Run Time Record	5200mAh - up to 2hrs (monitor & record 4Kp60) 7800mAh - up to 3hrs (monitor & record 4Kp60)
DC in Connector	Via DC Jack on battery eliminator
D-Tap	Via battery eliminator and optional D-Tap to DC cable
Continuous Power	Via Optional AtomX SYNC Module
Display	
Touchscreen	SuperAtom IPS panel (capacitive touch)
Size	5.2"
Resolution	1920 x 1080px
PPI	423
Bit Depth	10-Bit (8+2FRC)
Backlight Type	Edge lit
Brightness (cdm2 / nits)	1000 +/- 10%
Aspect Ratio	16 : 9
De-interlace mode	I > P and PSF > P
Color Gamut	Rec.709
Calibration Support	Atomos Calibrator with Calibrite i1 Display Pro / Plus (Retail)
Color Pipeline	
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

Gamut	Sony SGamut / SGamut3 / SGamut3.cine, Canon Cinema, DCI P3 / DCI P3+, Rec709, BT.2020, Nikon NLog, Panasonic V-Gamut, Arri Alexa Wide Gamut, FujiFilm F-Gamut, JVC LS300, RED WideGamut / RED DragonColor / DragonColor2 / RED Color2 / RED Color3 / RED Color4
3D LUT Display	.Cube Format
3D LUT Down Stream	Loop out
3D LUT 50/50	Yes
Monitoring Modes	Native / HLG / PQ / 3D LUT
HDR Output Conversion	Log / HDR to HLG / PQ / Dolby Vision
Video Input	
HDMI	1 x HDMI (2.0) 4Kp60
HDMI RAW	ProRes RAW up to 8K
SDI	2 x 12G SDI Backward compatible via optional AtomX SDI module or 1 x 12G SDI via optional Atomos Connect
SDI RAW	Yes, requires AtomX SDI module or Atomos CONNECT and RAW activation
Bit Depth	8/10-Bit Video / RAW up to 12-Bit
Metadata	
HDMI	RAW - white balance, Exposure index, Shutter speed/angle, Iris F stop, ISO, Gamma, gamut
SDI	Via optional AtomX SDI Module or optional Atomos CONNECT
Video Output (Play Out)	
HDMI	1 x HDMI (2.0) 4Kp60
SDI Loop Out	Optional Via AtomX SDI module
SDI Payout	2 x 12G SDI via optional AtomX SDI module - level A/B selectable
Signal	Uncompressed true 10-bit or 8-bit 422 (playback file dependent)
Web Streaming	
USB UVC	Optional Via Connect 4K
RTMP	Yes via optional Atomos CONNECT
RTMP/S	Yes via optional Atomos CONNECT
Video Signal Conversion	
HDMI to SDI	Via optional AtomX SDI module
SDI to HDMI	Via optional AtomX SDI module or optional Atomos CONNECT
Audio In/Out	
Audio Quality	24/48kHz
Audio Codec	PCM
HDMI	8ch 24-Bit, input dependent
SDI	12ch 24-Bit, input dependent
Analogue Audio In	3.5mm 2ch.
Headphone Out	3.5mm 2ch.
Audio Input Delay	User definable from menu

\*FX9 requires XDCA-FX9, FS7 requires XDCA-FS7, FS700 and FS5mki require FW update from Sony to enable RAW output via SDI.

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Timecode/SYNC	
<b>Embedded</b>	HDMI and SDI (AtomX SDI module required for SDI embedded timecode) or optional Atomos CONNECT
<b>Time of Day</b>	Yes, time and date
<b>Wireless SYNC</b>	AirGlu™ SYNC Time code Network Server or Client via optional AtomX SYNC or Atomos CONNECT
<b>RF Network range</b>	300m
<b>RF Frequency</b>	Region dependent
<b>Number of Channels</b>	12 RF Channels per Region
<b>Number of RF clients</b>	Region dependent
<b>LTC</b>	via 3.5mm audio Jack input (Requires post processing)
<b>Wireless RF</b>	Via Optional AtomX SYNC Module
<b>Bluetooth LE</b>	via Optional AtomX SYNC Module
Resolution & Frame Rates (Record, Monitor & Playback)	
<b>8K</b>	RAW only up to 30p via HDMI
<b>6K</b>	RAW Only up to 30p via HDMI and SDI (Camera dependent 5.9K HDMI and 5.7K SDI)
<b>5K</b>	RAW only up to 30p via HDMI
<b>4K DCI</b>	23.98/24/25/29.9/30/50/59.94/60p - HFR 100/120 via RAW over HDMI on selected cameras
<b>4K UHD</b>	23.98/24/25/29.9/30/50/59.94/60p
<b>2K DCI 2046 x 1080</b>	2K DCI: 23.98/24/25/29.97/30/50/59.94/60p / 100p, 120p, 200p, 240p via optional AtomX SDI module
<b>Anamorphic</b>	3.5K: RAW up to 60p (from supported cameras only)
<b>FHD 1920 x 1080 Progressive</b>	23.98/24/25/29.9/30/50/59.94/60/100/120p
<b>FHD 1920 x 1080 PsF</b>	Converted to P and looped out PsF
<b>FHD 1920 x 1080 Interlaced</b>	23.98/24/25/29.9/30/50/59.94/60i
<b>1280 x 720p</b>	50/59.94/60p
Recording CODEC	
<b>ProRes RAW</b>	ProRes Raw, ProRes RAW HQ
<b>ProRes</b>	LT, 422, 422HQ
<b>Avid DNxHD</b>	220x, 220, 145, 36
<b>Avid DNxHR</b>	LB, SQ, HQ, HQX.
<b>H.265</b>	LQ, MQ, HQ in 8/10Bit, 4 2 2 and 4 2 0
Playback	
<b>Playlist</b>	Yes, create custom playlists from full or sub clips
<b>Loop</b>	Yes, with user customizable in / out markers
<b>ProRes RAW</b>	Yes, recorded clips, with linear PCM audio
<b>ProRes</b>	Yes, with linear PCM audio
<b>Avid DNx</b>	Yes, with linear PCM audio
<b>H.265</b>	Yes, recorded clips, with linear PCM audio

Recording Functions	
<b>Pre-roll Record</b>	Yes (HD 8s, 4K 2s) - not available in RAW
<b>Timelapse</b>	Yes
Multi Input / Switching	
<b>SDI A/B Toggle</b>	Via optional AtomX SDI module
<b>Switching</b>	Via optional AtomX CAST module
Supported Media	
<b>Master Caddy I</b>	Not compatible
<b>Master Caddy II</b>	For 2.5" Drives in MasterCaddy II
<b>Master Caddy III</b>	Required when using Atomos CONNECT
<b>SSDmini</b>	Native size and fit
<b>CFast II</b>	Via Supported cards via optional SSDmini CFAST II Adaptor
<b>File Naming</b>	Unit name - Scene, Shot, Take. File name via SDI for Arri and RED
<b>File System</b>	ExFAT
On Screen Tools	
<b>Waveform</b>	Yes, 3 size / position
<b>RGB Parade</b>	Yes, 3 size / position
<b>Vectorscope</b>	Yes, 2 size / position
<b>1 x Zoom</b>	Yes. 1:1 pixel mapping for 4K
<b>2 x Zoom</b>	Yes
<b>Focus Peaking</b>	Color selected / threshold setting / color / mono / edges only
<b>False Color</b>	Yes, with Scale
<b>Zebra</b>	Yes, Adjustable
<b>Isolate Color Channel</b>	Blue Only
<b>Cine Frame Guides</b>	2.4:1, 2.35:1, 1.9:1, 1.85:1, 4:3
<b>Social Frame guides</b>	9:16, 1:1, 1.91:1, 4:5
<b>Safe Areas</b>	Action and Graphic
<b>Grid Markers</b>	9 grid
<b>Anamorphic Desqueeze</b>	1.25x, 1.33x, 1.5x, 1.8x ,2x
<b>Display Flip</b>	Vertical Only
Onboard Signal Processing	
<b>Pulldown Removal</b>	24/25/30pSF > 24/25/30p (2:2 pulldown) 60i > 24p (3:2 pulldown)
<b>4K UHD Downscale for HD</b>	Loop out - 4K UHD to FHD
<b>DCI Crop</b>	Loop out - 17:9 to 16:9 crop
Remote Control	
<b>HDMI</b>	Auto HDMI Trigger, supported protocols - Canon, Sony, Atomos Open Standard
<b>SDI</b>	SDI trigger camera selectable
<b>Bluetooth LE</b>	Via AtomRemote app (requires AtomX SYNC module)
<b>LANC 2.5mm jack</b>	LANC control and calibration via optional USB to serial cable

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External Device Control	
<b>Serial 2.5mm Jack</b>	Camera control for supported cameras via Optional USB to Serial Cable
<b>Bluetooth LE</b>	Via optional AtomX SYNC module to compatible devices
<b>Wireless RF</b>	Via optional AtomX SYNC module to compatible devices
Supported Applications	
<b>XML</b>	Cut tag EDL in FCP XML
<b>ProRes Raw</b>	Apple FCP, Adobe Premiere, After Effects, Avid Media Composer, GrassValley Edius, Assimilate Scratch, Baselight Film Light.
<b>Video Codecs</b>	All NLE applications that support Apple ProRes, Avid DNx and H.265 in .MOV wrapper
What's in the box	
<b>Accessories Included</b>	Ninja V +, EVA Carry case, 5" Protective Monitor sleeve, 1 x Battery Eliminator, International DC power supply, 1 x MasterCaddy II and QuickStart Guide
<b>Optional Extras</b>	Sunhood, DC to D-Tap, Power kit, HDMI cables, USB to serial cable, AtomX SYNC, AtomX SDI, AtomX CAST, Atomos CONNECT, UltraSync ONE, UltraSync Blue
Warranty	
<b>Standard</b>	1 year. Extended to 3 years on product registration
Target use / User	
<b>Mirrorless cameras</b>	Y
<b>Directors' monitor</b>	Y
<b>Games Capture</b>	Y
<b>Streaming</b>	Y
<b>Pro Video</b>	Y
<b>Gimbal / Crane</b>	Y