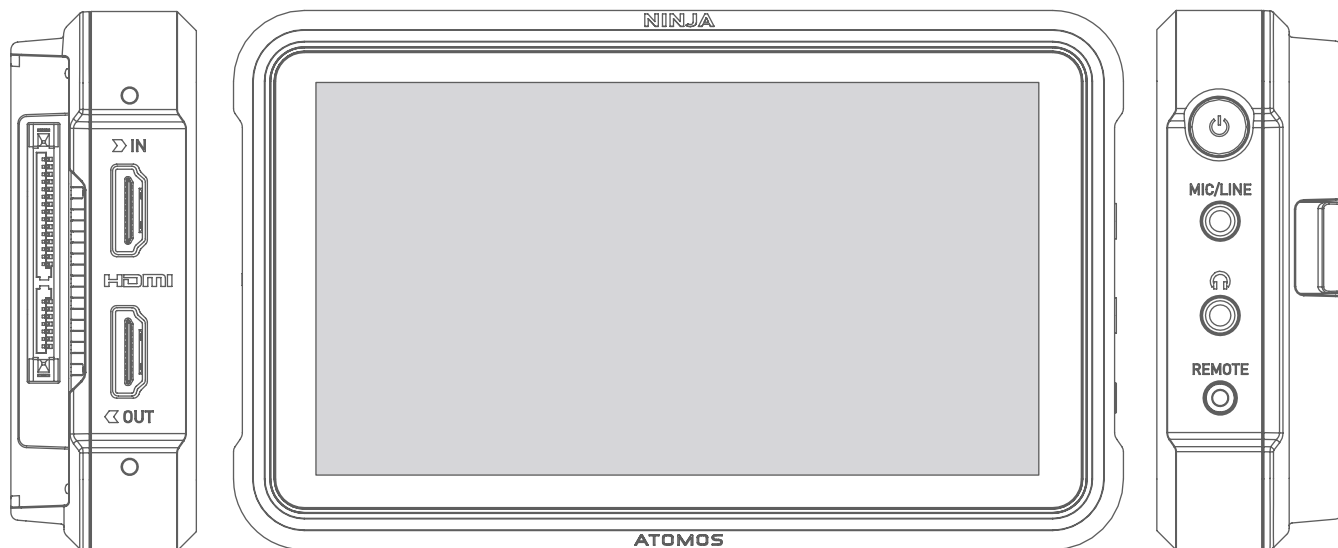




NINJA V

5" 4Kp60 HDR Monitor Recorder



The small monitor made perfect

The Ninja V has a stunning high bright 5.2 inch 10-bit HDR monitor with an astounding 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

Record up to 4Kp60 10-bit HDR video direct from your camera's sensor over HDMI 2.0. Capture edit-ready ProRes or DNXHR on affordable SSD drives and bypass 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 perfect color accuracy every time. You can 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 companies such as Shape, SmallRig and Wooden Camera.

Audio inputs

Audio can be input directly from the camera digitally via HDMI, or fed in analogue via the stereo 3.5mm line/mic socket – especially useful for cameras that do not have a mic input.

Record direct from your camera's sensor

Atomos enhance and compliment your camera's technology. We co-develop with your camera maker to streamline and improve video production. We monitor and record the highest quality image with the widest dynamic range and deepest color for creativity in post.

Technical made simple

We work tirelessly to simplify difficult technology, seamlessly supporting 40 log curves from Sony, Panasonic, Canon and Nikon through to RED and ARRI – so HDR or SDR shooting is simple. We record to over 30 different video formats including ProRes and Avid DNx. Now you can focus on story-telling and business, not on technology.

Endless open expansion

Enhance your Ninja V through the in-built modular expansion slot. Bi-directional high speed video, audio and power are available. Expansion modules dock into the battery slot and can be stacked, passing power and offering advanced connections and functions.

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 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	Apples ProRes RAW up to 6K
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 Playout	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 or AtomX CAST
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.

NINJA V – Technical specifications

Timecode/SYNC	
Embedded	HDMI and SDI (AtomX SDI module or optional Atomos CONNECT required for SDI embedded timecode)
Time of Day	Yes, time and date
Wireless SYNC	AirGlu™ SYNC Time code Network Server or Client via optional AtomX SYNC or Atomos CONNECT
RF Network range	300m
RF Frequency	Region dependent
Number of Channels	12 RF Channels per Region
Number of RF clients	Region dependent
LTC	via 3.5mm audio Jack input (Requires post processing)
Wireless RF	Via Optional AtomX SYNC Module
Bluetooth LE	via Optional AtomX SYNC Module
Resolution & Frame Rates (Record, Monitor & Playback)	
6K	RAW Only up to 30p via HDMI and SDI (Camera dependent 5.9K HDMI and 5.7K SDI)
5K	RAW only up to 30p via HDMI
4K DCI	23.98/24/25/29.9/30/50/59.94/60p
4K UHD	23.98/24/25/29.9/30/50/59.94/60p
2K DCI 2046 x 1080	2K DCI: 23.98/24/25/29.97/30/50/59.94/60p
Anamorphic	3.5K: RAW up to 60p (from supported cameras only)
FHD 1920 x 1080 Progressive	23.98/24/25/29.9/30/50/59.94/60/100/120p
FHD 1920 x 1080 PsF	Converted to P and looped out PsF
FHD 1920 x 1080 Interlaced	23.98/24/25/29.9/30/50/59.94/60i
1280 x 720p	50/59.94/60p
Recording CODEC	
ProRes RAW	ProRes Raw, ProRes RAW HQ
ProRes	LT, 422, 422HQ
Avid DNxHD	220x, 220, 145, 36
Avid DNxHR	LB, SQ, HQ, HQX.
H.265 (Optional)	LQ, MQ, HQ in 8/10Bit, 4 2 2 and 4 2 0
Playback	
Playlist	Yes, create custom playlists from full or sub clips
Loop	Yes, with user customizable in / out markers
ProRes RAW	Yes, recorded clips, with linear PCM audio
ProRes	Yes, with linear PCM audio
Avid DNx	Yes, with linear PCM audio
H.265	Yes, recorded clips, with linear PCM audio
Recording Functions	
Pre-roll Record	Yes (HD 8s, 4K 2s) - not available in RAW
Timelapse	Yes

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

NINJA V – Technical specifications

External Device Control	
Serial 2.5mm Jack	Camera control for supported cameras via Optional USB to Serial Cable
Bluetooth LE	Via optional AtomX SYNC module to compatible devices
Wireless RF	Via optional AtomX SYNC module to compatible devices
Supported Applications	
XML	Cut tag EDL in FCP XML
ProRes Raw	Apple FCP, Adobe Premiere, After Effects, Avid Media Composer, GrassValley Edius, Assimilate Scratch, Baselight Film Light.
Video Codecs	All NLE applications that support Apple ProRes, Avid DNx and H.265 in .MOV wrapper
What's in the box	
Accessories Included	Ninja V, 1 x Battery Eliminator, 1 x International DC power supply, 1 x MasterCaddy II and QuickStart Guide
Optional Extras	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	
Standard	1 year. Extended to 3 years on product registration
Target use / User	
Mirrorless cameras	Y
Directors' monitor	Y
Games Capture	Y
Streaming	Y
Pro Video	Y
Gimbal / Crane	Y