

Clifton Cameras Product Specification

ATOMOS Ninja 5 Full Spec

Physical Specifications	
Dimensions (W x H x D mm)	151 x 91.5 x 31 mm
Weight	360g / 12.7oz
Mount points	Anti-rotational 3/8-16 screw mount points, 1/4-20 screw mount adaptor installed. 1x top and 1x bottom
Environmental	
Ambient operating temperature	Up to 40° C
Construction and Control	
Body	Aluminium alloy chassis with ABS Polycarbonate back plate
Cooling	Heat Sink and actively controlled fan with user selectable modes in menu
Tally light	Rear and front
Multi-function button	Power / lock Screen
AtomXpansion slot	Yes
Power	

Input voltage	5.8 - 7.2V (Battery)
Operating power	10-22W
Compatible batteries	NP-F L series and supporting accessories
Built in battery	No
Battery Run time (Record)	5200mAh - up to 2hrs (monitor & record 4K 60p) 7800mAh - up to 3hrs (monitor & record 4K 60p)
Battery Run time (Monitor only)	5200mAh - up to 2hrs (monitor & record 4K 60p). 7800mAh - up to 3hrs (monitor & record 4K 60p)
Continuous power	Enabled by optional AtomX SYNC Expansion Module
DC in connector	Via DC Jack on Battery Eliminator
Dtap	Via Battery Eliminator and optional D-Tap to DC cable
Display	
Touchscreen	SuperAtom IPS panel (capacitive touch) calibration to Rec.709 with optional calibration unit
Size	5.2"
Resolution	1920 x 1080
PPI	423
Bit depth	10Bit (8+2 FRC)
Backlight Type	Edge lit
Brightness (cdm2 / nits)	1000
Aspect ratio	16:9
Color Gamut	Rec.709

Calibration support	Atomos Calibrator with Calibrite ColorChecker Display Pro or ColorChecker Display Plus
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+, Nikon NLog, Panasonic V-Gamut, Arri Alexa Wide Gamut, Rec709, BT.2020, 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
3DLUT 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) 4K p60
HDMI RAW	Apples ProRes RAW up to 6K
SDI	Optional via AtomX SDI module
SDI RAW	Optional with AtomX SDI module + SDI RAW activation
Bit Depth	8/10-bit Video / RAW up to 12-bit

Video Chroma Subsampling	4:2:2
HDCP copy protection	Not supported
Metadata	
HDMI	RAW - white balance, exposure index, shutter speed/angle, iris F stop, ISO, gamma, gamut
SDI	File name from Arri, RED
Video Output	
HDMI	1 x HDMI (2.0) 4k p60
SDI loop out	Optional Via AtomX SDI module
SDI Play out	Optional Via AtomX SDI module
Video Chroma Subsampling	4:2:2
Bit Depth	10-bit Video / 12-bit RAW
Web Streaming	
USB UVC	Optional via Connect 4K
Video Signal Conversion	
HDMI to SDI	Optional Via AtomX SDI module
SDI to HDMI	Optional Via AtomX SDI module
Audio In/Out	

Audio Quality	24-bit 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.
Timecode / Sync	
Embedded	HDMI and SDI
Time of day	Yes, Time and Date
LTC	via 3.5mm audio Jack input (requires post processing)
Wireless SYNC	Via Optional AtomX SYNC Module
Resolution and Frame Rates (Record, Monitor & Playback)	
6k	RAW Only up to 30p via HDMI
5k	RAW Only up to 29.97p 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	Optional via AtomX SDI module
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	
Apple ProRes RAW	ProRes RAW & RAW HQ
Apple ProRes	LT, 422, 422HQ
Avid DNxHD	220x, 220, 145, 36
Avid DNxHR	LB, SQ, HQ, HQX
H.265	LQ, MQ, HQ in 8/10Bit, 4 2 2 and 4 2 0 (Optional activation via my.atomos.com)
Playback	
Playlist	Yes, create playlists from full or sub clips
Loop	Yes, with user customizable in / out markers
Apple ProRes Raw	Yes, recorded clips
Apple ProRes	Yes, with Linear PCM audio
Avid DNx	Yes, with Linear PCM audio
H.265	Yes, with Linear PCM audio (once activated)
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
Supported media	
Master Caddy I	Not compatible
SSDmini	Native size and fit
CFast II	Supported cards via optional AtomX CFast Adapter
File Naming	Unit Name - Scene/Shot/Take
File System	ExFAT
On screen tools	
Waveform	Yes, 3 size / position
RGB parade	Yes, 3 size / position
Vector scope	Yes, 2 size / position
1 x Zoom	Yes. 1:1 Pixel mapping for 4k
2 x Zoom	Yes
Focus peaking	Colour selected / threshold setting / color / mono / edges only

False colour	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
Serial 2.5mm Jack	LANC control and calibration via optional USB to serial cable
Bluetooth LE	Via AtomRemote app (requires AtomX SYNC module)



Wireless RF	via optional AtomX SYNC module
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 FCPX XML
Apple ProRes RAW	Apple FCP, Adobe Premiere, After Effects, Avid Media Composer, GrassValley Edius, Assimilate Scratch, Baselight Film Light.
Video Codecs	All Applications with support for Apple ProRes and Avid DNX 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	5" Accessory kit, Sunhood, DC to D-Tap, Power Kit, HDMI cables, USB to serial cable, AtomX SYNC module, AtomX SDI module, AtomX CAST module
Warranty	
Standard	1 year. Extended to 3 years on product registration