

ATOMOS Ninja Ultra

Physical specifications

Dimensions: (W x H x D mm) 151 x 91.5 x 31 mm

Weight: 360g / 12.7oz

Mounting points: 1 x 1/4-inch / 3/8-inch top and bottom

Environmental conditions

Operating ambient temperature: Up to 40 degrees Celsius

Construction & Controls

Housing Aluminium with ABS plastic

Cooling Actively controlled fan and heat sink

Indicator light rear and front

Power / lock screen multifunction button

AtomXpansion slot

Power supply

Input voltage: 6.2V to 16.8V

Operating power: 5.8-7.2V (battery) or at least 30W via USB-C PD cable

Compatible batteries: NPF L-series

Built-in battery: No

Battery life record 5200mAh - up to 2 hours (monitor & record 4K 60p)

7800mAh - up to 3 hours (monitor & record 4K 60p)

DC power connection Via DC socket on battery eliminator

DTAP Via battery eliminator and optional DTap DC cable

Display

Touchscreen: SuperAtom IPS panel (capacitive touch)

Size: 5.2-inch

Resolution: 1920 x 1080

PPI: 427

Bit depth: 10 bit (8+2 FRC)

Backlight: type Edge lit

Brightness: (cdm2 / Nits) 1000

Aspect ratio: 16/9

Colour gamut Rec.709

Calibration support: Atomos Calibrator with Calibrite ColorChecker Display Pro & 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, Panasonic Vlog,
JVC JLog1, Red LogFilm / Log3G10 / Log3G12, FujiFilm
Flog, PQ (HDR10), HLG, Nikon N-Log
Gamut Bt2020, DCI P3, PDCI p3 65 Sony SGamut / SGamut3 / SGamut3.cine /
Canon Cinema / DCI P3 / DCI P3+ / BT2020
Panasonic V Gamut
Arri Alexa Wide Gamut
Rec709
JVC LS300
Red DragonColor / DragonColor2 / RedColor2 /
RedColour3 / RedColour4 / RedWideGamut
3D LU+A76T Display .Cube Format
3D LUT Down Stream Loop off
3DLUT 50/50
Monitoring Modes Native / HLG / PQ / 3D LUT
HDR Output Conversion Protocol / HDR to HLG / PQ / Dolby Vision

Video input

HDMI 1 x HDMI (2.0) 4Kp60
HDMI RAW Apple's ProRes RAW up to 8Kp30 from compatible cameras
SDI Optional via Atomos Connect Module
SDI RAW Optional via Atomos Connect Module
RJ45 / Network
Wi-Fi
USB
Bit depth 8/10-bit video / RAW up to 16-bit
Video chroma subsampling 4:2:2
HDCP copy protection Not supported

Metadata

HDMI RAW - white balance, exposure index, shutter speed/angle, aperture, ISO, gamma, gamut

SDI file naming from ARRI, RED, Sony and Canon cameras

External input

Closed captioning

Video output

HDMI 1 x HDMI (2.0) 4Kp60

SDI loop output

SDI output

RJ45 / GigE Optional via Atomos Connect Module

Wi-Fi 6E Optional via Atomos Connect Module

Multi-view

OS overlays

Video chroma subsampling 4:2:2

Bit depth 10-bit video

Pattern generator

Web streaming

USB UVC Optional via Atomos Nexus 4K or AtomX Cast

RJ45 / GigE Optional via Atomos Connect module

RTMP / S Optional via Atomos Connect module

Video Signal Conversion

HDMI to SDI Optional via Atomos Connect Module

SDI to HDMI Optional via Atomos Connect Module

Audio input/output

Audio quality 24/48kHz

Audio codec PCM

HDMI 8ch 24-bit, input dependent

SDI 12-ch 24-bit, input dependent

Analogue audio input 3.5 mm 2ch.

Headphone output 3.5 mm (2 channels)

Audio input delay User-definable via menu

Time code/sync/control

Embedded HDMI and SDI

Time of day, time and date

LTC Optional via Atomos Connect module
Genlock Optional via Atomos Connect Module
Wireless AirGlu RF Server and Client Optional via Atomos Connect Module
Wireless AirGlu BT Server Optional via Atomos Connect Module

Resolution & Frame Rates (Recording, Monitoring & Playback)

Supported base resolution & FPS
8K RAW Only up to 30p via HDMI
6K RAW Only up to 60p via HDMI
5K
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 (only from supported cameras)
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 PsF output as a loop
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, HQ
Apple ProRes LT, 422, 422HQ
Avid DNxHD DNxHD 220x, 220, 145, 36
Avid DNxHR LB, SQ, HQ, HQX.
H.265 LQ, MQ, HQ, XQ in 8/10Bit, 4 2 2 and 4 2 0

Playback

Playlist, create custom playlists from full or partial clips
Loop, with user-defined in/out markers
Apple ProRes Raw, recorded clips
Apple ProRes, with linear PCM audio
Avid DNx, with linear PCM audio
H.265

Recording functions

Pre-roll recording Yes (HD 8s, 4K 2s) - Not available in RAW
Time-lapse

Simultaneous proxy recording

Multi-input / switching

SDI A/B switching

Dual input display

Multiple SDI inputs

Multiple HDMI inputs Optional via AtomX Cast

Multiview display Optional via AtomX Cast