ATOMOS

About ATOMOS

ATOMOS designs pioneering products that transform the way digital film and video content is made around the world. From our range of hardware devices for monitoring and recording, easy-to-use software tools, and intelligent cloud services, we engineer best-in-class technologies, and provide access for the next generation of filmmakers.

Through relentless innovation we simplify your workflow. Whether you record cinema quality footage, monitor a scene with crystal clear color accuracy, switch between multiple cameras, or stream a live event with a portable studio, ATOMOS empowers anyone to realize the best possible version of their creative potential. ATOMOS is based in Melbourne, Australia with a distributed worldwide team and offices in the USA, Japan, China, UK, and Germany and has a worldwide distribution partner network.

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CONNECT your World

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))⊩ Frame.io

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CONNECT SERIES

ATOMOS CONNECT

Network, Wireless & SDI Expansion for NINJA V/V+

ATOMOS CONNECT

CONNECT NINJA V/ V+ to ATOMOS Cloud Studio Services

Add WiFi 6, NDI, 1GbE, Bluetooth LE and 12G SDI In to your NINJA V/V+

ATOMOS AirGlu™ for wireless timecode via RF and Bluetooth LE

ATOMOS CONNECT: The ultimate accessory for the NINJA V/ V+ with a connection to the world

ATOMOS CONNECT fits to the back of NINJA V and NINJA V+ and features a 12G SDI interface, ATOMOS AirGlu™ wireless timecode for synchronizing all cameras, multiple power options, NDI I HX, plus Wi-Fi 6, network Gigabit Ethernet, and Bluetooth LE capabilities for flexible connections. When attached to the NINJA V/ V+, the ATOMOS CONNECT transforms professional cinema, mirrorless, and DSLR cameras into fully integrated devices that support advanced cloud-based workflows.

ATOMOS CONNECT
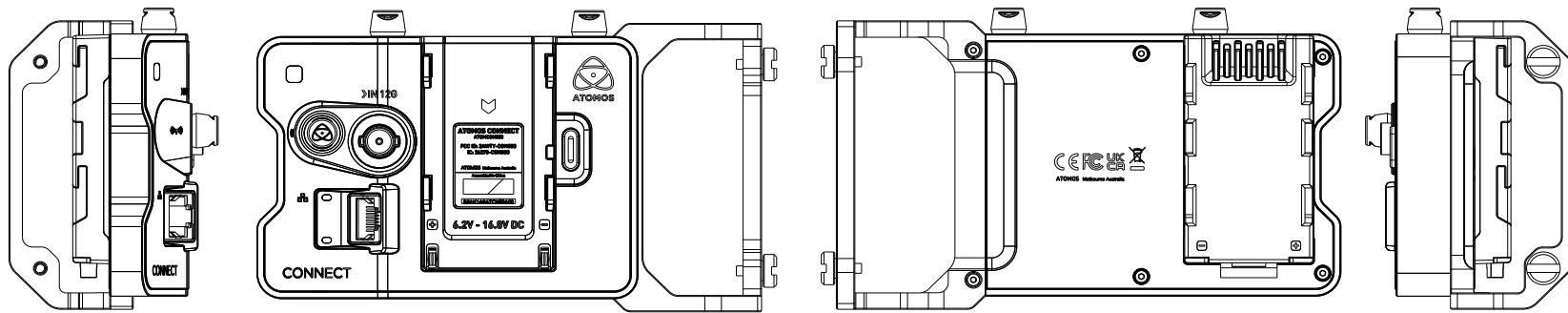
Physical Specifications	
Weight (Monitor Only)	230g / 0,5 lbs
Dimensions (Monitor Only)	150mm x 88mm x 53.5mm / 3.4" x 5.9" x 2.11"
Mount Points	2 x Thumb screws to mount to NINJA
Construction	
Body	ABS Polycarbonate
Tally light	Yes
Power	
Input voltage (battery)	6.2 - 16.8v
Compatible Batteries	NP-F / L-Series
DC In	via locking DC Jack on Battery Eliminator (5.5mm OD & 2.1mm ID)
DTAP	Via optional D-Tap to DC cable
Video Input	
SDI In	1 x 12G SDI
SDI RAW	Optional Upgrade Activation - Resolutions & Frame rate Support is NINJA Dependant

Network	
Ethernet	1GbE RJ45
Wi-fi	WI-FI 6
Wireless RF	AirGlu™ SYNC Time code Network
Cellular	Connect to Hot Spot via Wi-Fi
Web Streaming	
RTMP	Yes
RTMP/S	Yes
Video Signal Conversion	
HDMI to SDI	No
SDI to HDMI	Yes, via NINJA
Timecode / Sync	
SDI Embedded	Embedded
Wireless SYNC	AirGlu™ SYNC Time code Network
RF Network range	300m

RF Frequency	Region dependant
Number of Channels	12 RF Channels per Region
Number of RF clients	100 clients
Bluetooth Network Range	10-15m (line of sight)
Number of BT clients	6 clients per device
LTC	No BNC input
Remote Control	
Bluetooth LE	via AtomControl App for Monitor Assist Tools
What's in the Box	
Accessories included	ATOMOS CONNECT, AtomX SSDmini Handle, MasterCaddy III with screws, Wifi Antenna with Black caps, RF antenna, Antenna storage Pouch, 3.5mm audio jack to jack cable, Antenna coloured caps, Antenna mount covers
Warranty	
Standard	1 Year

SHOGUN CONNECT

Network-Connected HDR Video Monitor & Recorder

**CONNECT to ATOMOS Cloud Studio Services**

7" 2000nit HDR display with 8Kp30 / 4Kp120 ProRes RAW recording.

Simultaneous record of Hero ProRes RAW, ProRes or DNxHR/HD with matched H.265 Proxy

SHOGUN CONNECT: HDR Monitoring, RAW Recording and a Connection to the World

The SHOGUN CONNECT combines HDR monitoring, RAW recording, and cloud workflows. ATOMOS AirGlu™ wireless timecode for seamlessly synchronizing cameras, multiple power options for a variety of on-set scenarios, NDI I HX, plus Wi-Fi 6, Gigabit Ethernet, Bluetooth LE, and USB-C to ensure flexible, all-round connectivity. The SHOGUN CONNECT transforms professional cinema, mirrorless and DSLR cameras into fully integrated devices that support advanced cloud-based workflows.

atomos.com/products/shogun-connect
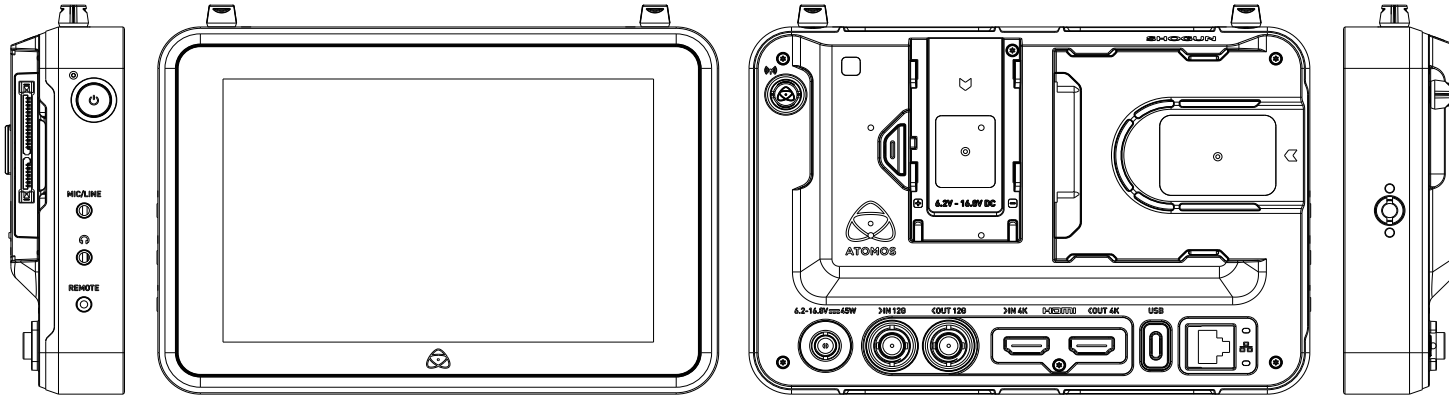
Physical Specifications	
Weight (Monitor Only)	730g / 1.6lb (excluding batteries)
Dimensions (Monitor Only)	198mm x 133mm x 40mm / 7.8" x 5.2" x 1.57"
Mount Points	Top: 1 x 1/4"20 or 3/8" with anti rotational points, Bottom: 1 x 1/4"20 or 3/8" with anti rotational points, Right: 1 x 1/4"20 or 3/8" with anti rotational points

Physical Specifications	
Mount Points	Up to 40 Degrees Celsius

Construction and Control	
Body	Aluminium alloy chassis with ABS Polycarbonate back plate
Cooling	Actively controlled fan and heat sink
Multi-function Button	Power / lock screen
Tally light	Yes

Power	
Input voltage (battery)	6.2V to 16.8V
Battery Voltage	7.2V
Compatible Batteries	1 x NP-F / L-Series
DC In Connector	Locking DC Jack (5.5mm OD & 2.1mm ID)
D-TAP	Via optional D-Tap to DC cable

Display	
Touchscreen	SuperAtom IPS panel (capacitive touch)
Size	7"

Resolution	1920 x 1200
PPI	325
Bit Depth	10-bit (8+2 FRC)
Backlight	Edge lit
Brightness (cdm2 /Nits)	2000nit +/-10%
Aspect Ratio	16:9 Image Display
Color Gamut	Rec.709
Calibration Support	Atomos Calibrator with Calibrite ColorChecker Display Pro or ColorChecker Display Plus

Color Pipeline	
3D LUT Display	.Cube Format
3D LUT Down Stream	Loop out
3D LUT 50/50	Yes
Monitoring Modes	Native / Rec.709 / HLG / PQ / 3D LUT
HDR Output Conversion	HLG / PQ
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, Z CAM Z-Log2, Olympus OM-Log400 / Flat, Leica L-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 / RedColor3 / RedColor4 / RedWideGamut

Colour Management	
Calibration	ATOMOS Calibrator with Calibrite ColorChecker Display Pro or ColorChecker Display Plus
Display controls	Backlight, Lift, Gamma, Gain
AtomHDR	Built in Technical Log to HDR EOTF
3D luts	Display, monitor and output, Record, Load via SSD
Legalize	Input

Video Input	
HDMI	1 x HDMI 2.0
SDI	1 x 12G SDI
Bit Depth	8 / 10-bit
Video Chroma Subsampling	YCbCr 420 & 422
HDR	Yes with HDMI Auto detection

Metadata	
HDMI	RAW - white balance, Exposure index, Shutter speed/angle, Iris F stop, ISO, Gamma, gamut
SDI	File Name from Arri, RED. RAW - white balance, Exposure index, Shutter speed/angle, Iris F stop, ISO, Gamma, gamut

File Naming	
Standard	S/S/T & Rolling
Via SDI	RED, ARRI
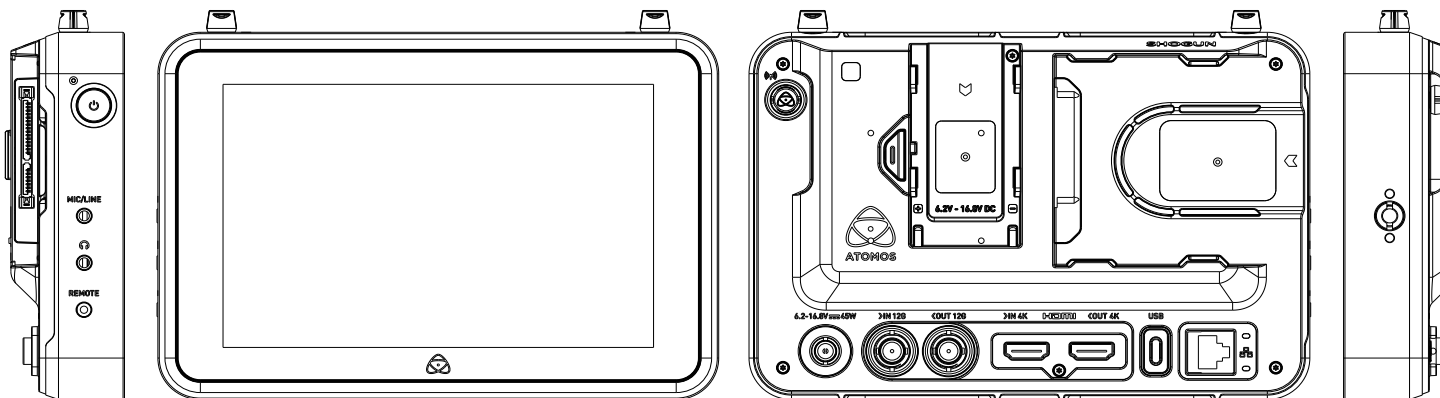
Video Output	
HDMI	1 x HDMI 2.0
SDI (Play Out)	1 x 12G SDI
HDR	Yes with Auto detection
Audio In/Out	
Audio Quality	24-Bit / 48kHz
Audio Codec	PCM
HDMI	8ch 24Bit, input dependent
SDI	12ch 24Bit, input dependent
Analogue Audio In	3.5mm Jack - 5v power
Analogue Audio Out	3.5mm Jack
Headphone Out	3.5mm Jack
Network	
Ethernet	1GbE RJ45
Wi-fi	WI-FI 6
Wireless RF	AirGlu™ SYNC Time code Network
Cellular	Connect to Hot Spot via Wi-Fi
Web Streaming	
RTMP	Yes
RTMP/S	Yes
Video Signal Conversion	
HDMI to SDI	Yes
SDI to HDMI	Yes

Timecode / Sync	
SDI Embedded	Embedded
HDMI Embedded	Embedded
Time of day	Yes
Wireless SYNC	AirGlu™ SYNC Time code Network Server or Client
RF Network range	300m
RF Frequency	Region dependant
Number of Channels	12 RF Channels per Region
Number of RF clients	Region dependant
Bluetooth Network Range	10-15m (line of sight)
Number of BT clients	6 clients
LTC	No BNC input
Resolution & Frame Rates (Record, Monitor & Playback)	
8K RAW	up to 8Kp30 Via HDMI
6K RAW	up to 6Kp60 Via HDMI & 6Kp30 SDI
4K RAW	up to 4Kp120 via HDMI / SDI
3.5K Anamorphic RAW	up to 3.5Kp60 via HDMI
2K RAW	up to 2Kp240 via SDI
4K DCI	up to 4Kp60
4K UHD	up to 4Kp60
2K DCI 2046 x 1080	up to 2Kp60
FHD 1920 x 1080 Progressive	up to 1080p120
FHD 1920 x 1080 PsF	Pull down

FHD 1920 x 1080 Interlaced	1080i50 / 1080i60
1280 x 720p	60p
Recording CODEC	
Apple ProRes RAW, HQ	up to 12bit 8Kp30 / 4Kp120
ProRes HQ / 422 / LT	up to 4Kp60
Avid DNxHD	up to 1080p60
Avid DNxHR	up to 4Kp60
H.265	up to 4Kp60 (MOV container)
Primary Codec + Proxy Record	ProRes RAW, ProRes, DNx with H.265
Pre Roll	8 secs HD / 4 secs 4k ProRes & DNx
Timelapse	Yes
Gang control	SYNC record control
Playback	
Playlist	Yes, Selected, Favourites or Combined
Loop Playback	Yes, with custom in and out points
Apple ProRes Raw	Yes, recorded clips
ProRes HQ / 422 / LT	Yes with linear PCM
Avid DNx HD	Yes with linear PCM
Avid DNx HR	Yes with linear PCM
H.265	Recorded clips
Monitoring	
SDR	Native, 709, LUT
HDR	HLG, PQ Rec2020
De-Interlace	Selectable mode

Supported Media	
Interface	SATA 3
Master Caddy I	No
Master Caddy II	Yes
Master Caddy III	Yes
SSDmini	Yes
CFast II	Yes via AtomX CF adapter
File System	exFAT

On Screen Tools	
Waveform	3 sizes
RGB parade	3 sizes
Vector scope	Small / large
1 x Zoom	Tap to zoom
2 x Zoom	Tap to zoom
Focus peaking	Coloured and slider for threshold
Zebra	Customisable
False color	With IRE scale
Isolate color channel	Blue only
Cine Frame Guides	Preset and Custom
Social Frame guides	Preset and Custom
Safe areas	SMPTE frame size – Action and Safe
Grid markers	9 grid
Frame Grab & Onion Skin Overlay	Lossless PNG 1920 x 1080

Anamorphic desqueeze	Display 1.25x, 1.33x, 1.5x, 1.8x and 2x
Display Flip	Vertical

Onboard Signal Processing	
RAW to Video loop out	Yes, conversion from Larger Resolutions to 4K
4K UHD downscale for HD	Yes, menu enabled
DCI Crop	Yes, menu enabled
I > P	2:2 and 3:2
PSF > P	2:2 and 3:2

Remote Control	
Bluetooth LE	via AtomControl App

External Device Control	
Serial 2.5mm Jack	Remote to USB – Z CAM

Supported Applications	
XML – Cut, Tag & Edit	Final Cut Pro
Apple ProRes Raw	Apple Final Cut Pro, Adobe Premiere, Avid Media Composer, Grass Valley Edius, ASSIMILATE SCRATCH
Apple ProRes	All Applications with support for Apple ProRes in .MOV wrapper
Avid DNx	All Applications with support for Avid DNX in .MOV wrapper

What's in the box	
Accessories included	SHOGUN CONNECT International Power supply, 7" protective Pouch, AtomX SSDmini Handle, MasterCaddy III with screws, Wifi Antenna with Black caps, RF antenna, Antenna storage Pouch, 3.5mm audio jack to jack cable, Antenna coloured caps, Antenna mount covers, Screen Cloth

Warranty	
Standard	1 Year
Extended	3 Years

ZATO CONNECT

5" Network-Connected Monitor & Encoder

Livestream directly to Facebook Live, Twitch, Youtube

Stream, record and output your program simultaneously Get your content online without limitations

Enhance web conferencing

Easy to use

ZATO CONNECT: Monitor, Stream, Engage with social platforms and video conferencing

Supports nearly all HDMI and USB UVC sources for livestreaming and video conferencing. Features Wi-Fi 5 and Gigabit Ethernet (via USB-C) to ensure maximum network compatibility. In addition to streaming to Facebook Live, Twitch, YouTube and other social sites, ZATO CONNECT can be used to enhance web conferencing (Discord, Microsoft Teams, Skype, Slack, WebEx, Zoom) and other conferencing software. Switch or combine sources, mix audio and overlay graphics to add value to every video.

atomos.com/products/zato-connect

ZATO CONNECT
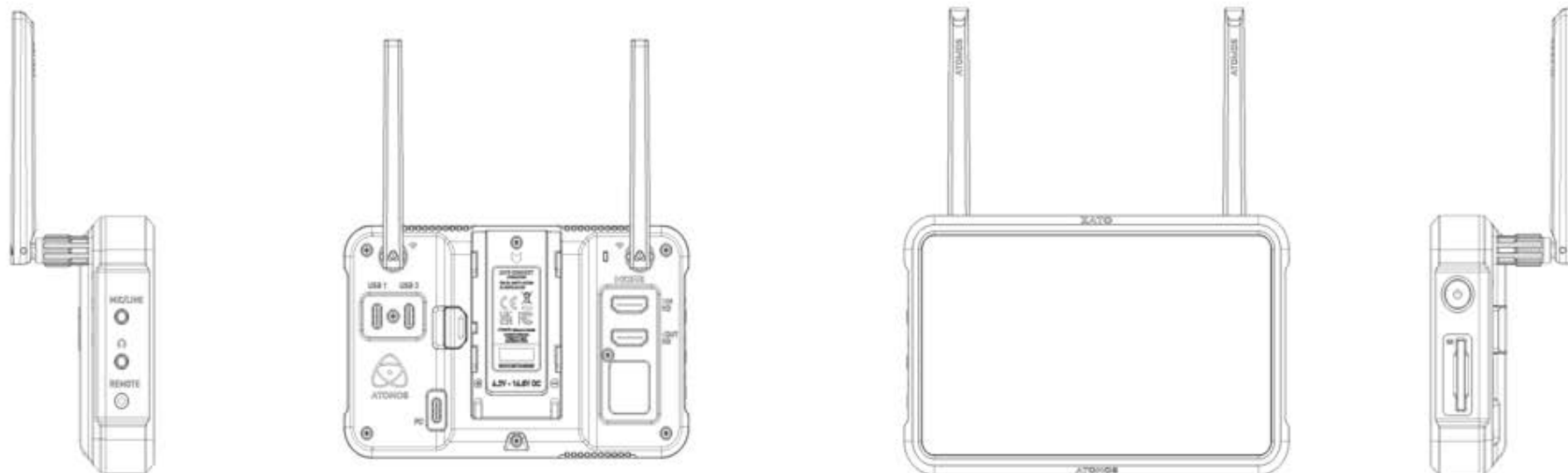
Physical Specifications

Weight (grams/lbs) without battery / accessories	245g / 8.64oz
Dimensions (W x H x D mm)	151 x 91.5 x 29.5mm

Environmental

Ambient operating temperature (C/F)	Up to 40 Degrees Celsius

Construction & Control

Body	Polycarbonate ABS plastic
Multi-function button	Power / lock Screen
Cooling	Passive
Network Config Settings	Auto-Join WiFi, DHCP, Manual Network Configuration

Power

Input voltage range	6.2V to 16.8V
Max Wattage	20W
USB	USB-PD
Compatible batteries	1 x NP-F / L series
Battery voltage	7.2V
DC in connector	via locking DC Jack on optional Battery Eliminator (5.5mm OD & 2.1mm ID)
D-Tap	Via optional D-Tap to DC cable

Display

Touch Screen	SuperAtom IPS panel (capacitive touch)
Size	5.2"
Resolution / PPI	1920 x 1080 / 427
Viewing angle	178 H + V
Color Gamut	Rec 709
Bit Depth	10-Bit (8+2 FRC)
Backlight type	Edge
Brightness (cdm²/Nits)	1000 (+/-10%)

Video In/Out

HDMI In	1 x HDMI 1.4 (up to 1080p60)
HDMI Out	1 x HDMI 1.4 (up to 1080p60)
USB In	Webcam up to 1080p60
USB Out	Webcam up to 1080p30
Bit Depth	8-bit
Video Chroma Subsampling	YCbCr 420

Audio In/Out

Audio Quality	16-Bit / 48kHz
Audio Codec	PCM (In & Out) & AAC (Streaming & Recording)
HDMI	2ch, input dependent
Analogue Audio in	3.5mm Jack - 5v power
Analogue Audio Out	3.5mm Jack
USB	USB Webcam 2 ch.
Speakers	None
Headphone out	3.5mm 2ch

ZATO CONNECT
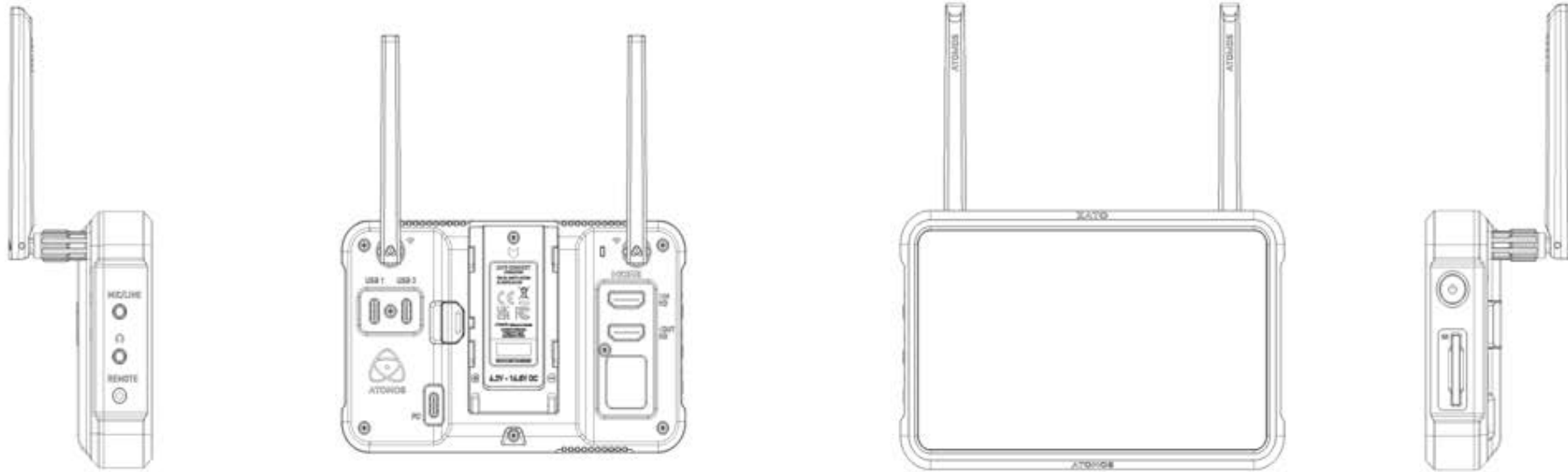
Network	
Ethernet	via included USB-C Dongle
Wi-fi	Wi-Fi 5
USB Host	USB Webcam
Atomos Cloud	Connect to Atomos Cloud Studio services
Cellular	Connect to Hot Spot via Wi-Fi
Web Streaming	
USB UVC	Yes, up to 1080p30
RTMP / S	Yes, authenticate and configure via Atomos Cloud Studio
Resolution & Frame Rates (Record, Monitor & Playback)	
FHD 1920 x 1080 Progressive	up to 1080p60
1280 x 720 Progessive	up to 720p60

Recording CODEC	
h.264	up to 1080p60
Codec option	LQ, MQ, HQ, XQ
Playback	
H.264	Clips recorded on-device
HDMI out	up to 1080p60
UVC out	up to 1080p30
Monitoring	
SDR	Rec.709

Supported media	
SD	SD UHS-1 (up to 128GB size)
On screen tools	
2 x Zoom	Tap to zoom
Grid markers	9 grid
Frame guides	16:9, 1.91, 4:3, 1:1, 4:5, 9:16
Display Flip	Vertical and Horizontal (Selfie mode)
Supported applications	
H.264	All Applications with support for H.264 in .MP4 wrapper
What's in the Box	
Included	ZATO CONNECT, 2 x Wi-Fi Antennas with black caps, 5 x Antenna colored caps: White/Red/Yellow/ Black/Green, 2 x Antenna Top Caps, 2 x Antenna Mount Cover, 1 x USB-C to USB-C Cable, USB-C to Ethernet Adapter, 1 x Antenna Storage Pouch, 1 x Quick Start Guide, 1 x Screen Cloth
Warranty	
Standard	1 year

ATOMOS

SHINOBI

Versatility for Filmmakers and Photographers

Longer battery life

One of the lightest 4K monitors available

Sleek lightweight design crafted for maximum efficiency, weighing in at just 200g

SHINOBI: 5" 4K HDMI HDR Photo & Video Monitor

ATOMOS SHINOBI is a lightweight HDR field monitor for the video professional or the vlogger wanting to take their production to the next level. SHINOBI's high brightness 1000nit 5-inch monitor lets crew members preview and see images exactly as intended in any lighting condition, in SDR or HDR. Shinobi utilizes our revolutionary AtomOS 10 platform and is packed with an extensive suite of scopes and simple one-touch operations.

atomos.com/products/shinobi
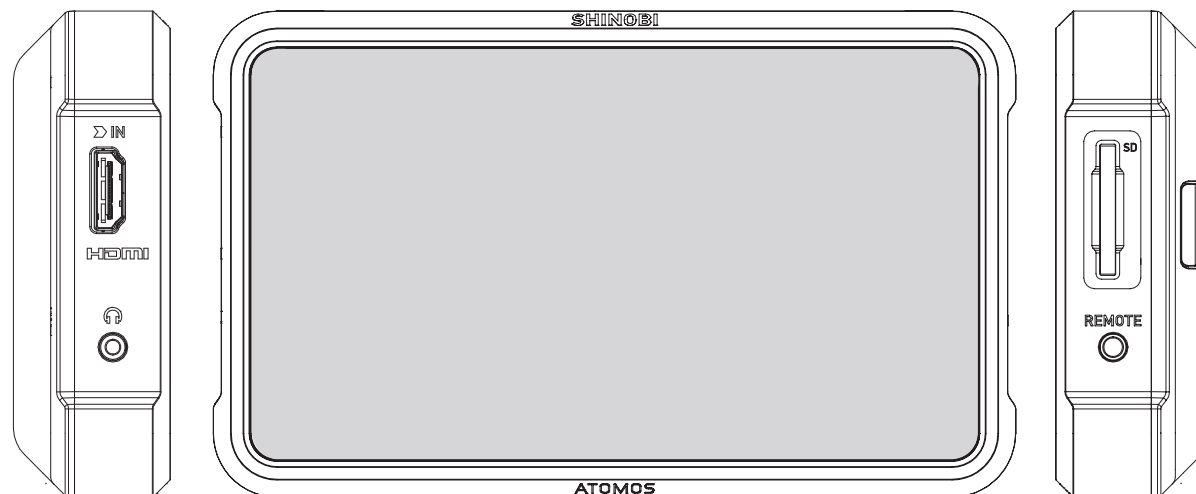
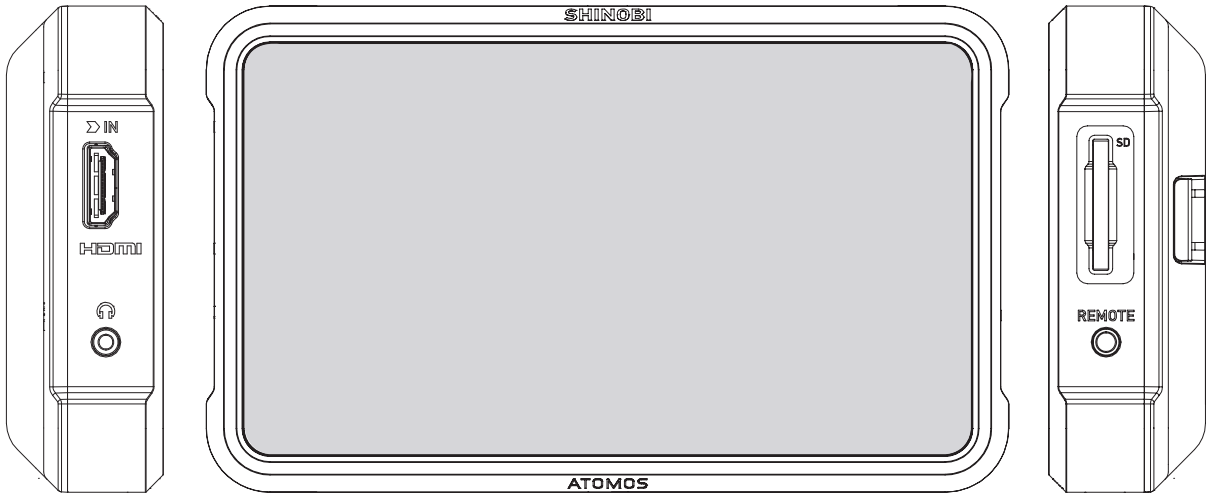| Weight and Dimensions	
Without batteries	226g/7.8oz
Dimensions (W x H x D mm)	151 x 91.5 x 31.5mm
Construction	Polycarbonate ABS
Mounting points	1/4"-20 screw mount. 1x top and 1x bottom
Power	
Operating power	4 - 7W
Compatible batteries	NP-F series and supporting accessories. AtomX or other.
Input voltage (battery)	6.2V to 16.8V
Battery time* (based on 7.4V) AtomOS 10.2	Standby - 2600mAh - 3hrs, 5200mAh - 6hrs, 7800mAh - 12hrs Monitor - 2600mAh - 1.5hrs, 5200mAh - 3hrs, 7800mAh - 6hrs
DC In	via Battery Eliminator
Touchscreen	
Screen	Capacitive touch
Size	5.2"
Resolution / PPI	1920 x 1080 / 325ppi
Aspect ratio	16:9 native
Color Gamut	REC709 HDTV

Look up table (LUT) support	3D LUT (.cube format)
Anamorphic de-squeeze	2x, 1.5x, 1.33x
Technology	IPS panel (capacitive touch), calibration to Rec.709 with optional calibration devices
Dynamic AtomHDR Technology	
Bit depth	10-bit (8+2 FRC)
Peak Brightness	1000nit (+/- 10%)
Screen Mirror/Flip	Horizontal Flip (Selfie mode), Vertical Flip *Landscape/Portrait mode planned for future firmware release
Anti-reflective	Special AR coating and Anti-fingerprint technology
AtomHDR	Yes
HDR Monitoring (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 Log3G10 / RED LogFilm FujiFilm F-log Nikon N-Log PQ10k HLG

HDR Monitoring (Gamma)	Sony SGamut / SGamut3 / SGamut3.cine Canon Cinema / DCI P3 / DCI P3+ Panasonic V Gamut Arri Alexa Wide Gamut Rec709 / BT.2020 JVC RED WideGamut / RED DragonColor / DragonColor2 / RED Color2 / RED Color3 / RED Color4
Video Input / Loop out	
HDMI	HDMI 1 x HDMI (1.4)
Signal	Up to Uncompressed true 10-bit or 8-bit 422(camera dependent)
Supported Formats (Video Input)	
UHD 3840 x 2160	23.98p, 24p, 25p, 29.97p
HD 1920 x 1080	23.98p, 24p, 25p, 29.97p, 50p, 59.94p
HD 1280 x 720	50p, 59.94p

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

With compatible camera/output device.

Audio in (48kHz)	
HDMI	2ch 24-bit 48kHz
Audio Out	
Headphone out	3.5mm 2ch.
SD Card Slot	
Full size SD Card slot	SD Card Slot allows LUTs to be loaded to the unit and is also used when updating AtomOS firmware
AtomOS	
Monitoring Features	Luma Waveform, RGB parade, RGB Overlay, Vectorscope, Vectorscope Zoom, Histogram, RGB Histogram, Anlaysis mode (Multiview scopes: Waveform, Histogram, Vectorscope), Focus Peaking, Zebra, False Color, Blue Only Exposure, Zoom (1:1, 2:1, 4:1), SMPTE Safe Areas, Cinema Guides, Anamorphic Desqueeze.

What's in the box	
Included	Shinobi unit, International DC power adapter, Quick Start Guide
Optional extras	
Accessories	**Power Kit:** 2 x NP-F Batteries, 1 x charger, 1 x power supply AtomX 5" Cage for Shinobi (by SmallRig) AtomX 5" Sunhood (compatible w. Shinobi / Ninja V) AtomX 5" Screen Protector (compatible w. Shinobi / NinjaV) AtomX 10" Arm & Quick Release Plate (by Lanparte) **Other:** Atomos HDMI cables, AtomX 5" Accessory Kit Calibrite ColorChecker Display Pro or ColorChecker Display Plus for calibration and USB to Serial cable
Warranty	1 Year

# SHINOBI 7

Big. Bright. Beautiful.

Dual battery slots. HDMI & SDI

Load up to eight custom LUTs at any time via the SD card slot

Multiple scopes at once. Including Waveform, Histogram, Vectorscope & Audio Meters

SHINOBI 7: 7" 4K HDMI/SDI HDR Photo & Video Monitor

Control your favorite cameras by using the intuitive touchscreen of the SHINOBI 7, designed to give you fast access to the most crucial camera features. Focus on the beautiful image and make dynamic adjustments of iris, white balance, shutter angle and ND. The Shinobi 7 can be used in the brightest of environments to monitor signals up to 4Kp60 via HDMI or SDI. With the optional ATOMOS USB-C to serial cable, support is available out the box for the Z Cam E2 series camera, providing direct control of all the menu configurations. The additional USB and RJ45 control ports on the SHINOBI 7 also provide support for future developments, as more options are added for touch screen camera control.

atomos.com/products/shinobi-7
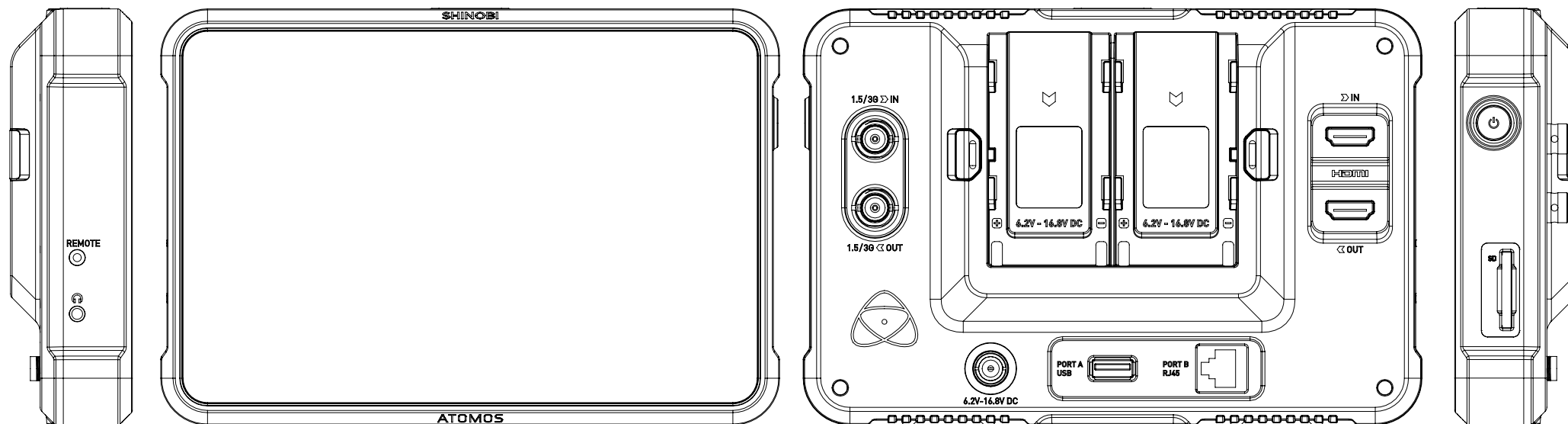
Physical Specifications

Weight (Monitor Only)	577g / 1.04lb (excluding batteries)
Dimensions (Monitor Only)	198mm x 133mm x 39mm
Mount Points	Should be: 2 x Anti rotation 1/4"-20 (Top & Bottom)

Construction

Body	Polycarbonate ABS Plastic
Cooling	Actively controlled fan and heat sink
Multi-function Button	Power / lock screen

Power

Input voltage (battery)	6.2V to 16.8V
Battery Voltage	7.2V
Operating Power	5.8-7.2W
Compatible Batteries	2 x NP-F L Series
Battery Run Time	5200mAh - up to 2hrs, 7800mAh - up to 3hrs
DC In	Locking DC jack
Continuous power	Dual battery slots
DTAP	Via optional DTap to DC cable

Display

Touchscreen	SuperAtom IPS panel (capacitive touch)
Size	7"
Resolution	1920 x 1200
PPI	325
Bit Depth	10-bit (8+2 FRC)
Backlight	Edge lit
Brightness (cdm2 /Nits)	2200 +/- 10%
Aspect Ratio	16:10
Color Gamut	Rec.709
Calibration Support	Atomos Calibrator with Calibrite ColorChecker Display Pro or ColorChecker Display Plus

Technology

3D LUT Display	.Cube Format
3D LUT Down Stream	Loop out
3D LUT 50/50	Yes
Monitoring Modes	Native / Rec.709 / HLG / PQ / 3D LUT
HDR Output Conversion	HLG / PQ

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 / RedColor3 / RedColor4 / RedWideGamut

Video Input

HDMI	1 x HDMI (2.0) 4Kp60
SDI	1 x 3G SDI - 2k p60
Bit Depth	8 / 10-bit
Video Chroma Subsampling	YCbCr 420 & 422

Video Output

HDMI	1 x HDMI (2.0) 4Kp60
SDI (Play Out)	1 x 3G SDI - 2Kp60

Video Signal Conversion

HDMI to SDI	Yes
SDI to HDMI	Yes

Audio In/Out	
HDMI	2ch 24-bit, input dependent
SDI	8ch 24-bit, input dependent
Headphone out	3.5mm 2ch.

Timecode/SYNC	
Embedded	HDMI and SDI

Supported Codecs & Frame Rates (Record & Playback)	
Supported Resolution & FPS (Monitor Only)	4K DCI: HDMI: 23.98p, 24p, 25p, 29.97p, 50p, 59.94p 4K UHD: HDMI: 23.98p, 24p, 25p, 29.97p, 50p, 59.94p 2K DCI 2046 x 1080: SDI: 23.98p, 24p, 25p, 29.97p, 50p, 59.94p FHD 1920 x 1080 Progressive: HDMI and SDI : 23.98/24/25/29.9/30/50/59.94/60p FHD 1920 x 1080 Interlaced: 50/59.94/60i 1280 x 720p: 50/59.94/60p

Supported Media	
SD	SD Card slot for LUTs / Firmware
File System	FAT32

On Screen Tools	
MultiScope Analysis View	Image, selectable Waveform, Histogram, Vector Scopes and Audio bars
Waveform	Yes, 3 size / Position
Histogram	Luma and RGB
RGB Parade	Yes, 3 size / Position
Vector Scope	Yes, 2 size / Position and zoom
Magnification	1 x Zoom 2 x Zoom 4x Zoom
Focus Peaking	Color selected / focus assist sharpening /threshold setting / color / Mono / edges only

False Color	Yes
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, 191:1, 5:4
Safe Areas	Action and Graphic
Grid Markers	9 Grid
Anamorphic Desqueeze	1.25x 1.33x , 1.5x ,1.8x ,2x
Display Flip	Vertical and Horizontal selfie mode

Onboard Processing	
4K UHD Downscale for HD	Yes
DCI Crop	Yes

External Device Control	
Serial 2.5mm Jack	USB-C to Serial (ATOMCAB018)
USB	Camera control for supported cameras in future firmware release
RJ45	Camera control for supported cameras in future firmware release

What's in the box	
Accessories Included	Shinobi 7, International DC power adaptor and Quickstart guide
Optional Extras	Power kit, HDMI cables, USB to serial cable, AtomX Mounting Arm, Monitor mount

Warranty	
Standard	1 year. Extended to 3 years on product registration

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

With compatible camera/output device.

ATOMOS

NINJA V

Unlock Your Camera's Full Potential

NINJA V

Record 4K in high quality industry codec

SDR/HDR Perfection

10+ stops of dynamic range in real-time from Log/PQ/HLG signals

ProRes RAW   ProRes   DNxHD

NINJA V: 5" 5.9K RAW HDR Monitor-Recorder

Eliminate your camera's internal compression and time limits, record up to 4Kp60 10-bit HDR video direct from your camera's sensor over HDMI 2.0. Record up to 5.9K 12-bit RAW from a growing list of ProRes RAW enabled cameras. Atomos NINJA V is the ultimate field monitor for the on-the-go film and video creator that values capturing to high quality industry standard codecs like ProRes and ProRes RAW in addition to the existing codec arsenal available on the monitor-recorder. NINJA V's state-of-the-art screen maintains clarity and color in the brightest of conditions and displays 10+ stops dynamic range in HDR.

atomos.com/products/ninja-v

Weight and Dimensions	
Without batteries & media	360g / 12.7oz
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 UNCscrew 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 7.4V)	5200mAh - up to 2hrs (monitor & record 4K +60p) 7800mAh - up to 3hrs (monitor & record 4K 60p)
DC In	Via DC Jack on Battery Eliminator
Continuous power	Enabled by optional AtomX Sync Expansion Module

Touchscreen	
Size	5"
Resolution / PPI	1920 x 1080 / 427ppi
Aspect ratio	16:9 native
Color Gamut	REC709 HDTV
LUT support	3D LUT (.cube format)

Anamorphic de-squeeze	2x, 1.5x, 1.33x, Panasonic 4:3
Technology	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional calibration unit

HDR	
AtomHDR	Yes
HDR Monitoring/Recording (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 / RED Log3G10 / RED LogFilm / RED Log3G12 , FujiFilm F-log, PQ10k, HLG, Nikon N-Log
HDR Monitoring/Recording (Gamut)	Sony SGamut / SGamut3 / SGamut3.cine, Canon Cinema / DCI P3 / DCI P3+, Nikon NLog, Panasonic V Gamut, Arri Alexa Wide Gamut, Rec709 / BT.2020 JVC, RED WideGamut / RED DragonColor / DragonColor2 / RED Color2 / RED Color3 / RED Color4
Bit depth	10-bit (8+2 FRC)
Brightness	1000nit (+/- 10%@centre)
HDR input (PQ/HLG)	Yes
HDR output (PQ/HLG)	Yes

Video Input	
HDMI	1 x HDMI (2.0)

SDI	Optional via AtomX SDI module
Signal	Uncompressed true 10-bit or 8-bit 422 (camera dependent)

Video Output (Play Out)	
HDMI	1 x HDMI (2.0)
SDI	Optional Via AtomX SDI module
Signal	Uncompressed true 10-bit or 8-bit 422 (playback file dependent)

Supported Loop Out Formats	
HDMI to HDMI	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120 2160p 24/25/30/50/60
SDI to SDI	Optional Via AtomX SDI module
Signal Cross Conversion	HDMI ← → SDI Optional via AtomX SDI module

Supported Codecs & frame rates (record & playback)		
	Codec	Resolution / Frame rate
Video to ProRes / DNxHR (DNx utilizes a .MOV wrapper)	Apple ProRes HQ, 422, LT AVID DNxHR HQX. HQ, SQ, LB, H.265(optional)	4K DCI; 24/25/30/50/60p 4K UHD; 24/25/30/50/60p 2K 1080p; 24/25/30/50/60/100^/120^ 1080i; 50/60i, 720p; 50/60p
ProRes RAW	ProRes RAW, ProRes RAW HQ	Up to 5.9Kp29.97 via HDMI (supported cameras)

Onboard Processing	
Pulldown removal	24/25/30pSF > 24/25/30p (2:2 pulldown) 60i > 24p (3:2 pulldown)
4K UHD downscaling	Yes - Loop out and playback

Audio In/Out (48kHz PCM Audio)	
HDMI	2 or 8ch 24-bit, camera dependent
SDI	Optional via AtomX SDI module
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
SDI	Optional Via AtomX SDI module
Other	LANC control - Slave

Playback / Slow motion	
Playlist	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). Not available in RAW
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. CFAST 2.0 Supported cards via optional SSDmini CFAST II Adaptor Please visit atomos.com/drives for list of approved drives.
Master caddy case	Master Caddy II (included) 75mm x 105mm x 12mm

Supported Applications	
XML Support	Cut tag EDL in FCP XML, Adobe limited support with 3rd party conversion tools
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

Expansion	
AtomXpansion Port	Video, Audio & Power In/Out

What's in the Box	
Included	Ninja V unit, Master Caddy II x 1, 12V-3A AC power supply, 1x Battery Eliminator, Quick start guide
Optional extras	Power Kit: 2 x battery, 1 x charger, 1 x power supply AtomX Sunhood for Ninja V Atomos HDMI cables X-Rite i1DisplayPro calibration AtomX CAST AtomX SDI Module AtomX SYNC Module
Warranty	1 year. Extended to 3 years on product registration

ATOMOS

NINJA V+

Power and Performance to future-proof your creativity

World's first 8K RAW HDR Monitor-Recorder

Powerful new AtomIC3 technology.
Capture without limits

A codec arsenal for you to choose from depending on your production and workflow

ProRes RAW   ProRes   DNxHD

NINJA V+: See the unseen

The NINJA V+ is the newest member of the NINJA Family joining the multi-award winning ATOMOS NINJA V. Powered by the new ATOMOS Silicon chip AtomIC3 allowing the NINJA V+ to deliver up to 8Kp30 and 4Kp120 continuous recording in Apple ProRes RAW ensuring you stay ahead of the game and have the flexibility to grow your system as projects demand. Monitor and record whilst inheriting the existing codec arsenal also available on the NINJA V facilitating ProRes, DNx and H.265 recording directly from the monitor. HDR, 4Kp60 RAW and video also feature on the NINJA V+ as well as HDp120 slow motion similar to its little brother, NINJA V.
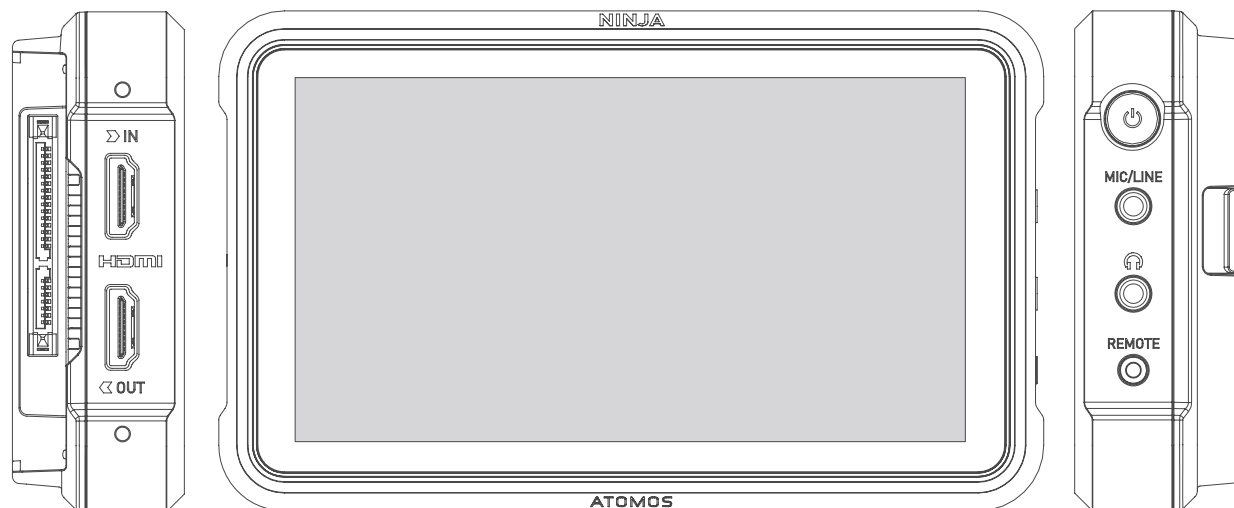
atomos.com/products/ninja-v-plus

NINJA V+

Weight and Dimensions	
Without Batteries & Media	360g/12.7oz
Dimensions (W x H x D mm)	151 x 91.5 x 31mm
Mounting Points	1 x Anti-rotation 1/4"/3/8 top and bottom

Environmental	
Ambient Operating Temperature	Up to 40°C

Construction	
Body	Aluminium with ABS plastic
Tally Light	Rear and front
Multi-function Button	Power / lock screen
AtomXpansion Port	Yes

Power	
Operating Power	5.8 - 7.2V
Compatible Batteries	NPF L series
Input Voltage (Battery)	6.2V to 16.8V

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
DTAP	Via battery eliminator and optional DTap 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	427
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 Xrite 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, Panasonic Vlog, JVC JLog1, Red LogFilm / Log3G10 Log3G12, FujiFilm Flog, PQ (HDR10), HLG, Nikon N-Log, Olympus OM Log, Lecia L Log
Gammut	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 / RedColor3 / RedColor4 / RedWideGamut
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 8Kp30
SDI	Optional via AtomX SDI module
SDI RAW	Additional activation key required
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

Video Output (Play Out)

HDMI	1 x HDMI (2.0) 4Kp60
SDI Loop Out	Optional Via AtomX SDI module
SDI Playout	Optional Via AtomX SDI module
Signal Cross Conversion	HDMI < > SDI Optional via AtomX SDI module

Playback

Playlist	Yes, create customer playlists from full or sub clips
Loop	Yes, with user customizable in / out markers
ProRes RAW	Yes, recorded clips
ProRes	Yes, with linear PCM audio
Avid DNx	Yes, with linear PCM audio
H.265	Yes, recorded clips

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
Master Caddy II	For 2.5" Drives in MasterCaddy II
SSDmini	Native size and fit
CFast II	Supported cards via optional SSDmini CFAST II Adaptor
File Naming	Unit Name - Scene/Shot/Take
File System	ExFAT

Resolution & Frame Rates (Record, Monitor & Playback)

8K	RAW only up to 30p via HDMI
6K	RAW only up to 30p via HDMI
5K	RAW only up to 30p via HDMI
4K DCI	23.98/24/25/29.9/30/50/59.94/60p - HFR 100/120 via RAW over HDMI on selected cameras
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

ProRes RAW	ProRes RAW, ProRes RAW HQ
ProRes	LT, 422, 422HQ
Avid DNxHD	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

Playback

Playlist	Yes, create customer playlists from full or sub clips
Loop	Yes, with user customizable in / out markers
ProRes RAW	Yes, recorded clips
ProRes	Yes, with linear PCM audio
Avid DNx	Yes, with linear PCM audio
H.265	Yes, recorded clips

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
Master Caddy II	For 2.5" Drives in MasterCaddy II
SSDmini	Native size and fit
CFast II	Supported cards via optional SSDmini CFAST II Adaptor
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	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, 191:1, 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

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, Adobe limited support with 3rd party conversion tools
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 ProRes and Avid DNX in .MOV wrapper

Expansion

AtomXpansion Port	Video, Audio & Power In/Out

What's in the box

Accessories Included	Ninja V +, EVA Carry case, 5" Protective Monitor sleeve, 1 x Battery Eliminator, International DC power supply, 1 x MasterCaddy II and QuickStart Guide
Optional Extras	Power Kit: 2 x battery, 1 x charger, 1 x power supply AtomX Sunhood for Ninja V, Atomos HDMI cables X-Rite i1DisplayPro calibration AtomX CAST, AtomX SDI Module AtomX SYNC Module

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

SHOGUN 7

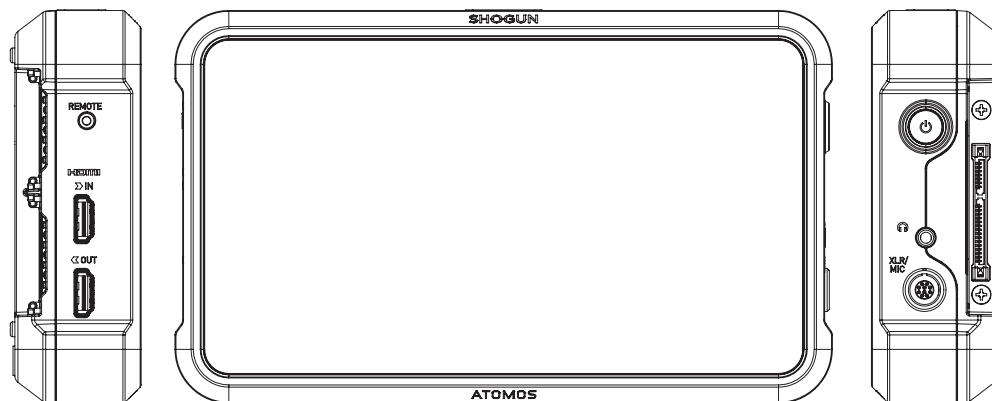# The SHOGUN 7 is at Home on Practically any Camera

Live multicam switching and program out

Save hours in post production

Record up to 4x ISO at 1080p60 and Program feed during switching for later edits

SHOGUN 7: 7" HDR Pro/Cinema Monitor Recorder-Switcher

The ATOMOS SHOGUN 7 is designed for today's film & video professional. Use as either a stand-alone 7-inch field monitor, recorder & switcher for events, documentary and live in-field storytelling, or harness the SHOGUN 7's versatility as a tool for large-scale on-set episodic TV, film & cinema productions. SHOGUN 7's portable size lets you monitor, analyze and tag while on set. It is a completely flexible master recording and production station. Add to this asynchronous, multicamera switching and the ability to record in a range of other codecs, and you have more power to achieve your creative vision than ever before.

atomos.com/products/shogun-7

Weight and Dimensions

Without batteries	738g / 26oz.
Dimensions (W x H x D mm)	214 x 127 x 45mm
Construction	Glass fiber reinforced polycarbonate
Mounting points	1/4"-20 screw mount. 1x top and 1x bottom

Power

Operating power	10 - 33W
Compatible batteries	Atomos NP-F series and supporting accessories
Input voltage (battery)	6.2V to 16.8V
Battery time* (based on 7.4V) AtomOS 10.2	5200mAh – up to 1hr 10min (monitor & record 4K 60p) 7800mAh – up to 1hr 50min (monitor & record 4K 60p)
DC In	1 x DC in (6.2 - 16.8V)
Continuous power*	Primary-secondary battery system. Change batteries without losing power. Loop batteries continuously.

Touchscreen

Screen	Capacitive touch
Size	7.2"
Resolution / PPI	1920 x 1080 / 327ppi
Aspect ratio	16:9 lamge Display 1920 x 1200
Contrast ratio	1,000,000:1 (Zone backlight turned on)
Color Gamut	Up to Wide color gamut (105% DCI-P3)
Look up table (LUT) support	3D LUT (.cube format)
Anamorphic de-squeeze	1.25x, 1.33x, 1.5x,1.8x, 2x
Technology	Dynamic AtomHDR zoned backlight IPS LCD

Dynamic AtomHDR Technology

Backlight	Direct LED
Zones	360 direct backlight individual LEDs
LEDs	Wide Color Calibrated D65 or D9
Bit depth	10-bit (8+2 FRC)
Color	DCI-P3 105%
Peak Brightness	3000nit (+/- 10%)
Control	On the fly real-time brightness analysis for LED control
HDR Conversion	Log/RAW to HLG or PQ

HDR Monitoring Technology

Technology	IPS panel (capacitive touch), calibration to Rec.709 with optional calibration unit
AtomHDR	Yes
HDR Monitoring (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
HDR Monitoring (Gamut)	BT2020, DCI P3, DCI 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 / RedColor3 / RedColor4 / RedWideGamut

Video Input / Loop out

HDMI	1 x HDMI (2.0) 4Kp60 / 1 x HDMI (2.0) 4Kp60
SDI	Quad link 3G SDI with 2 x 12G SDI (backwards compatible), Auto detection / 2 x 12G SDI Backwards compatible
Signal	Uncompressed true 10-bit or 8-bit 422 (camera dependent)

Genlock	GenLock in Playback mode

Video Output (Playout)

HDMI	1 x HDMI (2.0) 4Kp60
SDI	2 x 12G SDI Backwards compatible Auto detection Level A and B
HDMI	Uncompressed true 10-bit or 8-bit 4:2:2 (camera dependent)

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 (Not available in RAW)

Supported Codecs & Frame Rates (Record & Playback)

RAW to:	ProRes RAW ProRes CinemaDNG (CDNG up to 30p only) Avid DNxHD, Avid DNxHR
Sony^^ FS700, FS-5, FS-7, FS-7MkII	4K DCI; 24/25/30/50/60p 4K UHD; not supported in camera 2K; 24/25/30/50/60/100/120/200/240p 1080; not supported in camera
Canon C300MKII/C500 CDNG	4K DCI; 24/25/30p 4K UHD; 24/25/30p 2K; not supported in camera 1080; not supported in camera
Panasonic VaricamLT, EVA1	5.7K DCI; 24/25/30p (EVA1 ProRes RAW only) 4K DCI; 24/25/30/50/60p 4K UHD; 24/25/30/50/60p 2K; 24/25/30/50/60/100/120/200/240p 1080; not supported in camera
Supported base resolution & FPS from cameras	4K DCI: 23.98/29.9/59.94p 4K UHD: 23.98/29.9/59.94p 2K DCI: 23.98/29.9/59.94p 1080p: 23.98/29.9/59.94p
Supported FPS & resolution from gaming consoles and graphic cards	1080p; 24/25/30/50/60/100/120

Audio In/Out	
HDMI	2 or 8ch 24-bit, camera dependent
SDI	12ch 48kHz 24-bit
Audio	2ch balanced XLR analogue in/out via optional Break out cable Dynamic range >90dB Max signal level +24dBu Max analogue gain +52dB 48V Phantom Power for Mic
Headphone out	3.5mm 2ch.

Remote Start/Stop	
HDMI	Auto HDMI Trigger Supported Protocols – Dolby Vision, Canon, Sony, Atomos Open Standard
SDI	SDI trigger camera selectable
Other	LANC control

Playback	
Playlist / Genlock / LTC	Yes / Yes / Yes
CDNG (Recorded content)	No support
ProRes (Recorded content)	All recorded files can playback. Playback in slow motion >= 100fps
ProRes RAW (recorded content)	All recorded files can playback. Playback in slow motion >= 100fps
DNxHR / DNxHD (recorded content)	All recorded files can playback. Playback in slow motion >= 100fps

Recording	
Pre-roll record	Yes (HD 8s, 4K 2s)
Custom time lapse	Yes*
Metadata tagging	Yes (10 tags available)
Supported media	AtomX SSDmini, Master Caddy II with 2.5" SSD or CFast II media via CFast Adapter
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	Final Cut Pro / Media Composer / Premiere Pro / After Effects / EDIUS / Vegas Pro / Lightworks / Autodesk Smoke

What's in the box	
Included	Shogun 7 unit, Master Caddy II x 1, 12V-3A AC power supply, Carry Case, Quick Start Guide

Optional extras	
Accessories	**Power Kit:** 2 x battery, 1 x charger, 1 x power supply **Other:** Atomos HDMI cables, Breakout XLR cable, Calibrite i1 DisplayPro calibration. **Compatible AtomX accessories:** Shogun 7 Sunhood, AtomX USB-C 3.1 Docking Station II, AtomX SSDmini Handle, AtomX SSDmini by Angelbird, AtomX SSDmini by Nextorage

Warranty	
1 Year	Extended to 3 years on product registration

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

‡ With compatible camera/output device.

*Available in future firmware updates

^^ Optional unit (XDCA-FS7) needed for Raw output.

SUMO 19SE

# Live Quad-channel HD Switching & Recording

1200nit P3 D65 touchscreen

6Kp30 ProRes RAW. 10-bit ProRes & DNx up to 4Kp60, CDNG 4Kp30

Live Quad-channel HD Switching & Recording

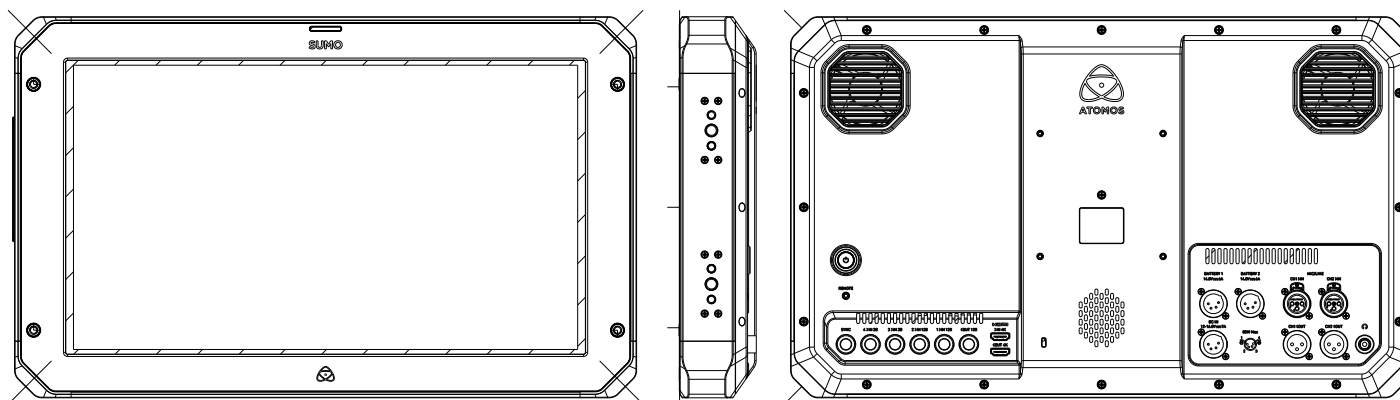## Sumo 19SE: Professional 19" HDR Monitor-Recorder-Switcher

With a 1200nit HDR Touchscreen covering the P3 D65 color gamut, the ability to record Apple ProRes RAW up to 6Kp30, and a rugged and versatile design, the SUMO 19SE really is the perfect on-set monitor-recorder. On top of this, it is also a live four-channel switcher with the ability to record up to four 1080p60 streams and has full-sized XLR connectors for professional audio workflows. Video from any camera or digital video source can be captured via SDI or HDMI. Record up to 10-bit 4:2:2 in ProRes or DNxHR codecs at 4Kp60 or 2Kp240, depending on the camera's capability.

atomos.com/products/sumo19SE

Physical Specifications
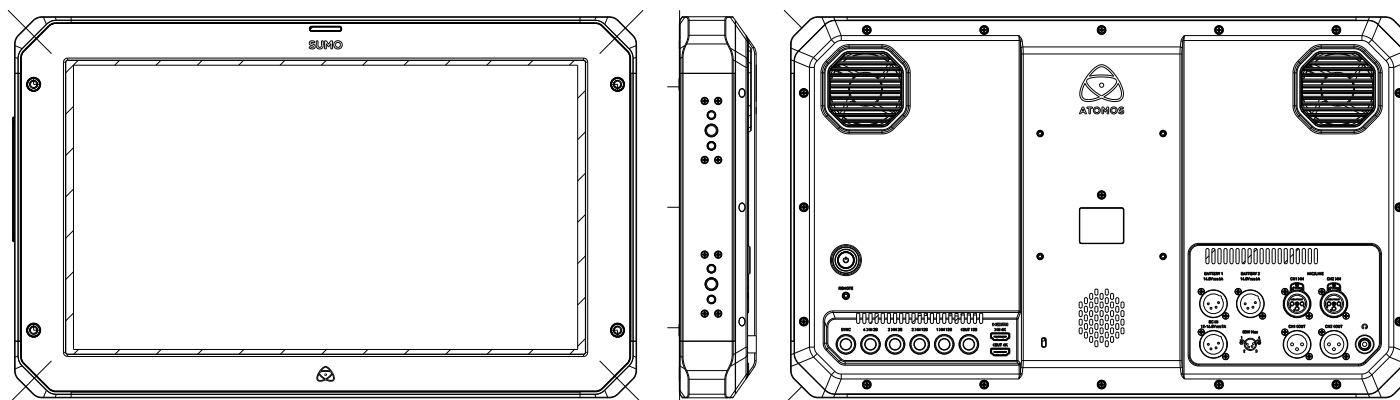
Physical Specifications	
Weight (Monitor Only)	6.2kg / 13.7lb
Dimensions (Monitor Only)	504mm x 310mm x 63mm / 19.8" x 12.2" x 2.5"
Mount Points	Top: 4 x 1/4' 20, 2 x 3/8", Bottom: 6 x 1/4' 20, 3 x 3/8" Right: 4 x 1/4' 20, 2 x 3/8", Left: 2 x 1/4' 20, 1 x 3/8"
VESA Mount	100 x 100

Environmental

Environmental	
Ambient operating temperature (C/F)	Up to 40 Degrees Celsius

Construction & Control

Construction & Control	
Touch Screen	Yes
Body	Aluminium alloy chassis with ABS Polycarbonate back plate
Multi-function Button	Power / lock screen
Cooling	Actively controlled fan and Heat Sink
Tally light	Rear and front

Power

Power	
Input voltage range	DC 12-16.8v
Battery Voltage	14.4V nominal
Operating Power	75W
Compatible Batteries	V-Lock / Anton Bauer via XLR terminal, (optional mounting plates available), 95Wh+ recommended.
Battery Run Time Record	Depends on Watt Hours of battery used

Battery Run Time Monitor	Depends on Watt Hours of battery used
DC In	1 x 4 pin XLR (12-16.8V)
Continuous power	Dual Battery input via dedicated 4 pin XLR

Display

Display	
Touchscreen	SuperAtom IPS panel (capacitive touch)
Size	19"
Resolution	1920 x 1080
PPI	120
Bit Depth	10-bit (8+2 FRC)
Backlight	Edge, Optically bonded quantum dot
Brightness (cdm2 /Nits)	1200nit (+/- 10% @ center)
Aspect Ratio	16:9 Image Display
De-interlace mode	Yes, Graphic burning protection
Color Gamut	DCI P3
Calibration Support	Atomos Calibrator with Calibrite ColorChecker Display Pro or ColorChecker Display Plus

Color Pipeline

Color Pipeline	
3D LUT Display	.Cube Format
3D LUT Output	Loop out
3D LUT 50/50	Yes
Monitoring Modes	Native / Rec.709 / HLG / PQ / 3D LUT
HDR Output Conversion	HLG / PQ

Gamma	Sony SLog / SLog2 / SLog3, Canon CLog / CLog2 / Clog3, Arri Log CEI160 / LogCEI200 / LogCEI250 / LogCEI320 / LogCEI400 / LogCEI500 / LogCEI640 / LogCEI800 /LogCEI1000 / LogCEI1280 / LogCEI1600, Panasonic V-log, JVC JLog1, Red LogFilm / Log3G10 / Log3G12, FujiFilm F log, PQ (HDR10), HLG, Nikon N-Log
Gamut	BT2020, DCI P3, DCI P3+, DCI p3 65, Sony SGamut / SGamut3 / SGamut3.cine, Canon Cinema, Panasonic V Gamut, Arri Alexa Wide Gamut, Rec709, JVC LS300, F-Gamut, Red DragonColor / DragonColor2 / RedColor2 / RedColor3 / RedColor4 / RedWideGamut

Color Management

Color Management	
Calibration	Atomos Calibrator with Calibrite ColorChecker Display Pro or ColorChecker Display Plus
Display controls	Backlight, Lift, Gamma, Gain
AtomHDR	Built in Technical Log to HDR EOTF
3D luts	Display, monitor and output, Record, Load via SSD
Legalize	Input

Video Input

Video Input	
HDMI in	1 x HDMI (2.0) 4k p60
HDMI RAW	No - HDMI Video only
SDI in	4 x 3G SDI, with 2 x 12G SDI backwards compatible, auto detection
SDI RAW	Apple ProRes RAW up to 6Kp30
HDR	Yes with HDMI Auto detection
Bit Depth	8/10Bit Video / RAW up to 12Bit
Video Chroma Subsampling	YCbCr 422

File Naming	
Standard	S/S/T & Rolling
Via SDI	RED, ARRI

Video Output	
HDMI Out	1 x HDMI (2.0) 4k p60
SDI loop out	1 x 12G SDI Backwards compatible Auto detection level A and B selectable
SDI Play out	1 x 12G SDI Backwards compatible Auto detection level A and B selectable
Video Chroma Subsampling	422
Bit Depth	10Bit Video / 12Bit RAW

Audio In/Out	
Audio Quality	24-Bit / 48kHz
Audio Codec	PCM
HDMI	8ch 24Bit, input dependent
SDI	12ch 24Bit, input dependent
Analogue Audio in	2 x XLR
Analogue Audio Out	2 x XLR
Speakers	2 x 5w
Headphone out	3.5mm 2ch.

Web Streaming	
USB UVC	Optional via Atomos HDMI to USB Stick

Video Signal Conversion	
HDMI to SDI	Yes
SDI to HDMI	Yes - Video and RAW

Timecode / Sync	
SDI Embedded	Embedded
HDMI Embedded	Embedded
Time of day	Yes, Time and Date
LTC	LTC via BNC input in Record mode
Genlock	Genlock in Playback mode

Resolution & Frame Rates (Record, Monitor & Playback)	
6K RAW	up to 6Kp30 Via SDI
4K RAW	up to 4Kp60 via SDI
2K RAW	up to 2Kp240 via SDI
4K DCI	up to 4Kp60
4K UHD	up to 4Kp60
2K DCI 2048 x 1080	up to 2Kp60
FHD 1920 x 1080 Progressive	up to 1080p120
FHD 1920 x 1080 PsF	Pull down
FHD 1920 x 1080 Interlaced	1080i50 / 1080i60
1280 x 720p	60p

Recording CODEC	
CDNG	For SDI RAW inputs only
Apple ProRes RAW	up to 12bit 6Kp30 / 4Kp60
Apple ProRes HQ / 422 / LT	up to 4Kp60
Avid DNxHD	up to 1080p60
Avid DNxHR	up to 4Kp60
Pre Roll	Yes (HD 8s, 4K 2s) - Not available in RAW
ISO Record	4 x ISO up to 1080p 60 (3G SDI Level A ONLY)
Switched Program Record	Yes Up to 1080p 60
Timelapse	Yes

Playback	
Playlist	Yes, Create customer play lists from full or sub clips
Loop Playback	Yes, with user customisable in / out markers
Apple ProRes Raw	Yes, recorded clips with linear PCM
ProRes HQ / 422 / LT	Yes with linear PCM
Avid DNx HD	Yes with linear PCM
Avid DNx HR	Yes with linear PCM
CDNG	No

Monitoring	
SDR	Native, 709, LUT
HDR	HLG, PQ Rec2020
De-Interlace	Selectable mode

Multi Input / Switching

SDI A/B toggle	Yes, supports up to 12G SDI per input
input switching	Yes
Dual Input display	Via Multi ISO input mode
Multiple SDI input	Up to 4 x 1080p 60 (3G SDI Level A ONLY)
Multiview Display	Via Multi ISO input mode
Input transitions	Auto or manual XML transition

Supported Media

Interface	SATA 3 – MasterCaddy
Master Caddy I	No
Master Caddy II	Yes
Master Caddy III	Yes
SSDmini	Yes (AtomX SSDmini Handle required)
CFast II	No
File System	exFAT

On Screen Tools

Waveform	3 sizes
RGB parade	3 sizes
Vector scope	2 size / Position
1 x Zoom	Yes. 1:1 Pixel mapping for 4k
2 x Zoom	Yes

Focus peaking	Colour selected / threshold setting / colour/ Mono / edges only
Zebra	Yes, customisable
False color	Yes, with IRE scale
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	SMPTE frame size – Action and Safe
Grid markers	9 grid
Anamorphic desqueeze	Display 1.25x, 1.33x, 1.5x, 1.8x and 2x
Display Flip	Vertical

Onboard Signal Processing

4K UHD downscale for HD	Loop out - 4K UHD to FHD
DCI Crop	Loop out - 17:9 to 16:9 Crop
I > P	60i > 24p (3:2 pulldown)
PSF > P	24/25/30pSF > 24/25/30p (2:2 pulldown)

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

Supported Applications

XML	Final Cut Pro
Apple ProRes Raw	Apple Final Cut Pro, Adobe Premiere, Avid Media Composer, Grass Valley Edius, ASSIMILATE SCRATCH
Apple ProRes	All Applications with support for Apple ProRes in .MOV wrapper
Avid DNx	All Applications with support for Avid DNX in .MOV wrapper

What's in the box

Accessories included	Sumo unit, 1x Master Caddy II, 1x BattWing mounting bracket with 4x screws, 2x Desktop Feet with 4x 1/4" Mounting screws, AC power supply

Warranty

Standard	1 Year
Extended	3 Years

SHOGUN STUDIO 2

HDR Dual Monitor, Rack Mount Monitor-Recorder-Switcher

Dual 4k p60 recording (1 x input per channel)

Up to 8 channels of 8 x 1080p60 ISO as and switched program output

SDI ⟵⟶ HDMI conversions with support for Quadlink SDI inputs and simultaneous output to 12G SDI and HDMI 2.0

SHOGUN STUDIO 2: Features and functionality that previously required over 10U densely compacted into 3U of rack space

SHOGUN STUDIO 2 takes Atomos multi-channel recording technology and combines it with two 7" HDR 3000nit high bright touchscreen displays, in a single 3RU unit. It's unique combination of features makes it perfect for live events, outside broadcast vehicles, production galleries, MCRs, post production facilities, video wall playout, on-set DITs and sports. Connect to practically any SDI / HDMI source including camera channels, PTZ cameras and vision mixers.
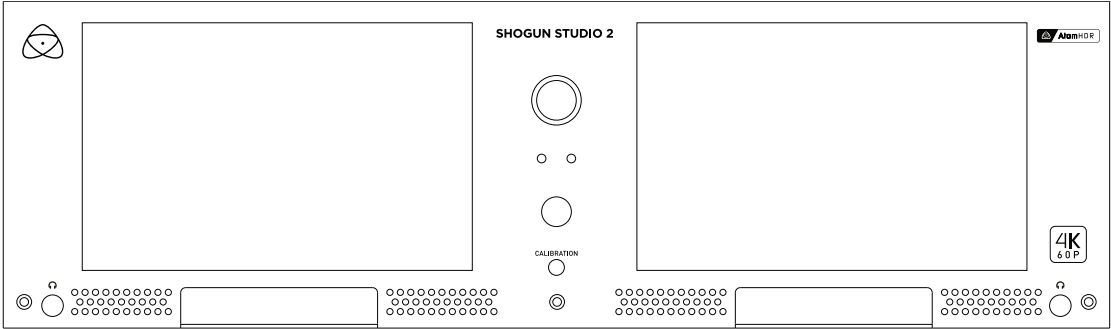
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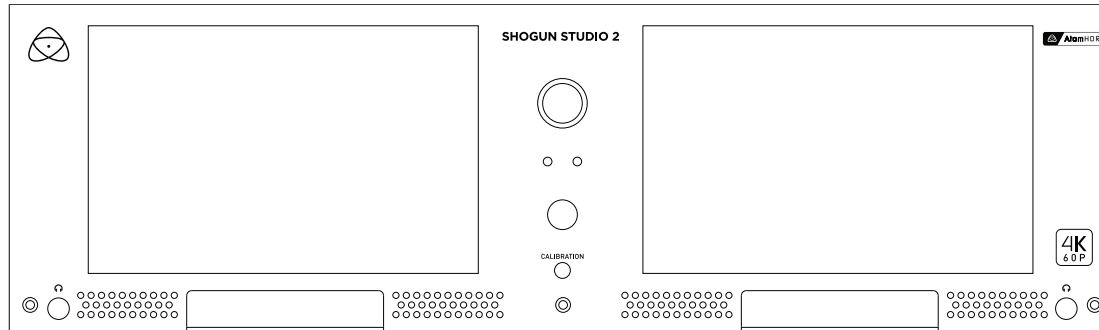
Weight and Dimensions

Without batteries	5.0kg / 11lb
Dimensions (W x H x D mm)	447 x 152 x 280mm, 17.6 x 6.0 x 11.0" 490 x 152 x 280mm, 19.3 x 6.0 x 11.0 (including rack ears)
Mount points	Removable rack ears and desktop feet
Construction	Steel construction for durability
Cooling	Actively controlled fan with heat sinks

Power

Operating power	20-86W
Compatible batteries	No
Continuous power	Dual IEC C14
Dual PSU	DC in connector
DC Out	No

Touchscreen

Size	Dual 7.2"
Resolution	Dual 1920 x 1200
PPI	327 per screen
Aspect ratio	16:9 native
Color Gamut	Up to Wide color gamut (105% DCI-P3)
Look up table (LUT) support	3D LUT (.cube format), loop out, 50/50
Anamorphic de-squeeze	2x, 1.5x, 1.33x, Panasonic 4:3
Technology	Dynamic AtomHDR zoned backlight

Dynamic AtomHDR Technology

Backlight	Direct LED
Zones	360 direct backlight individual LEDs
LEDs	Wide Color Calibrated D65 or D95
Bit depth	10-bit (8+2 FRC)
Color	DCI-P3 105%
Peak Brightness	3000nit (+/- 10%) HDR peak brightness
Control	On the fly real-time brightness analysis for LED control
HDR Conversion	Log/RAW to HLG or PQ, Dolby Vision Loop out

HDR Monitoring Technology

HDR Monitoring (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, REDlogFilm / RED Log3G10 / RED Log3G12, FujiFilm F-log, PQ (HDR10), HLG
HDR Monitoring (Gamut)	Sony SGamut / SGamut3 / SGamut3.cine, Canon Cinema, DCI P3 / DCI P3+, Nikon N-Log, 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

Video Input / Loop out

HDMI	1 x HDMI (2.0)**
SDI	Quad link 4 x 3G-SDI up to 1080p 60 (3G SDI Level A ONLY), with 2 x 12G SDI Backwards compatible Auto detection per recorder channel
Signal	Uncompressed true 10-bit or 8-bit 422 (camera dependent)
LTC (Record Mode Only)	LTC input signal and loop out
Genlock	Genlock input signal and loop out

Video Output (Per Channel)

HDMI	1 x HDMI (2.0) 4Kp60

SDI (Playout)

SDI (Playout)	2 x 12G SDI Backwards compatible Auto detection
Signal	Uncompressed true 10-bit or 8-bit 4:2:2 (playback file dependent)

Video Signal Conversion

HDMI to SDI	Yes - Video and RAW
SDIO HDMI	Yes - Video and RAW

Audio In/Out (48kHz PCM Audio) (Per Channel)

HDMI	2 or 8ch 24-bit, camera dependent
SDI	12ch 24-Bit, input dependent
Audio	2ch balanced XLR analogue in/out Dynamic range >90dB Max signal level +24dBu 48V Phantom Power for Mic
Headphone Out	3.5mm 2ch.

Supported Codecs & Frame Rates (Record & Playback)

RAW to:	ProRes RAW, ProRes CinemaDNG (CDNG up to 30p only) Avid DNxHD
Sony^^ FS700, FS-5, FS-7, FS-7MkII	4K DCI; 24/25/30/50/60p 4K UHD; not supported in camera 2K; 24/25/30/50/60/100/120/200/240p 1080; not supported in camera
Canon C300MKII/C500 CDNG	4K DCI; 24/25/30p 4K UHD; 24/25/30p 2K; not supported in camera 1080; not supported in camera
Panasonic VaricamLT, EVA1	5.7K DCI; 24/25/30p (EVA1 ProRes RAW only) 4K DCI; 24/25/30/50/60p 4K UHD; 24/25/30/50/60p 2K; 24/25/30/50/60/100/120/200/240p 1080; not supported in camera 2K; 24/25/30/50/60/100/ 120/200/240p

Supported base resolution & FPS from cameras	2K DCI: 23.98/24/25/29.9/30/50/59.94/60p 1080p: 23.98/24/25/29.9/30/50/59.94/60p 1080i: 50/59.94/60i 720p: 50/60p PSF inputs converted to P but looped out as PSF
Supported FPS & resolution from gaming consoles and graphic cards	4K UHD: 24/25/30/50/60p
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 (Not available in all RAW modes)
Remote Start/Stop	
HDMI	Auto HDMI Trigger Supported Protocols - Dolby Vision, Canon, Sony, Atomos Open Standard
RS422*	9pin transport control on qualified controllers
SDI	SDI trigger camera selectable
Other	LANC control - Slave / Calibration on front. Serial - Calibration on front

Playback	
Playlist / Genlock / LTC	Yes / Yes / No
CDNG (Recorded content)	No support
ProRes (Recorded content)	All recorded files can playback. Playback in slow motion >= 100fps.
DNxHR / DNxHD (recorded content)	All recorded files can playback. Playback in slow motion >= 100fps.
Recording	
Pre-roll record	Yes (HD 8s, 4K 2s)
ISO Record	Up to 8 streams in 60pHD in parallel
Supported media	2.5" SSD/HDD compatibility depends on recording format, resolution and frame rate. Visit atomos.com/drives for list of tested and approved drives
Master caddy case	Master Caddy II (included) 75mm x 105mm x 12mm
Supported applications	Final Cut Pro / Media Composer / Premiere Pro / After Effects / EDIUS / Vegas Pro / Lightworks / Autodesk Smoke

What's in the Box	
Accessories included	Shogun Studio 2, 2 x rack ears with screws, 4 x rubber feet with screws, 2 x IEC power cable, 2 x HDMI cable, 1 x USB-C Dock, 1x Master caddy II
Optional extras	Master Caddy II x 5, Atomos USB to Serial Calibration cable, Xrite i1 Display pro
Warranty	
Standard	1 year. Extend to 3 yrs on product registration

Please note: Specifications are subject to change without notice. All information correct at time of publishing.

** Link between channel 1 and 2 is limited to 4KDCI at 30p ^^ FS700 and FS5mkii require RAW firmware upgrade. FS7 mki/ii require XDCA-FS& extension unit.

ATOMOS

NEON

Professional HDR & SDR Reference Monitor

Control via Atomos Button Bar
or AtomRemote App

4K/HD broadcast standard SDR Reference
with 1000 nit HDR preview monitoring

Essential monitoring
tools at your fingertips

NEON: HDR and Industry-Standard REC.709 SDR Reference Monitoring

NEON Series offers a uniquely powerful solution for precise 4K/HD, HDR/SDR monitoring and recording. From set to the final grade, NEON provides true, industry standard, Broadcast Video Monitor (BVM) SDR Reference. NEON utilizes a combination of high quality 17:9 4K DCI resolution and true 10-bit panel fidelity with full array local dimming backlight to deliver beautiful 0nit deep blacks and 1000nits HDR full screen brightness. The NEON series also gives you the convenience of recording and instant playback. The AtomHDR engine provides the ability to accurately manage your input and display Gamma/Gamut. Selectable monitor modes allow you to work in either SDR or HDR project settings, that match both camera acquisition settings, or defined delivery standards including Rec.709, Rec.2100 HLG or ST.2084 PQ.

atomos.com/products/neon
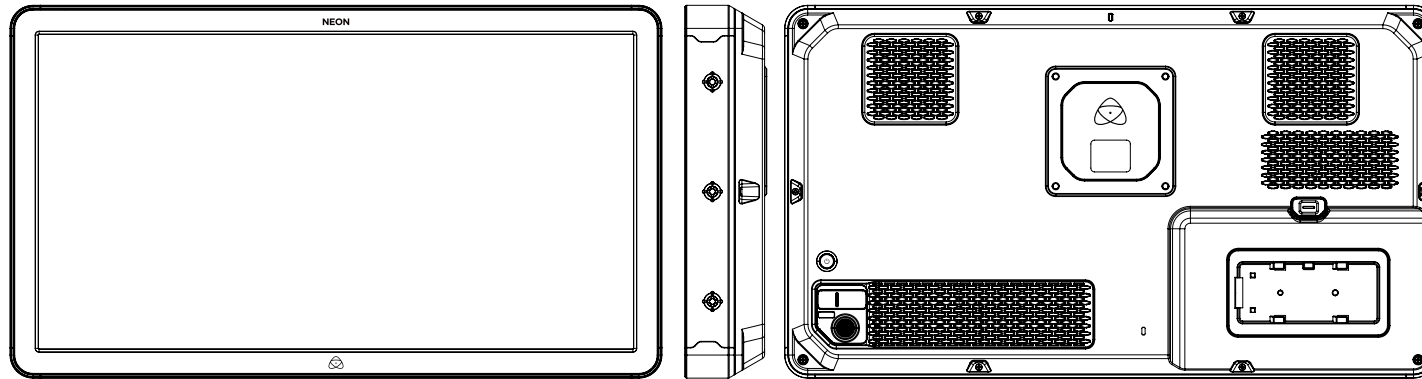
Physical Specifications	NEON 17	NEON 24
Without batteries	4.5kg/9.92lb	8.6kg / 18.95lb
Dimensions (W x H x D mm)	413 x 253 x 71.4mm	594 x 339.7 x 72.5mm
Mounting points	Full ARRI compatible, 3 Left, 3 Right, 7 Top, 7 Bottom. Rear 100 x 100 VESA Mount.	
Feet	2 x Feet with 1/4" 20 with anti rotation pins	
Security leash point	Kensington lock on rear and lock down point on feet	
Rack mount	Via 3rd party shelld with Vesa mount	

Construction		
Body	Aluminium alloy chassis with ABS Polycarbonate back plate	
Cooling	Active	
Tally Light	Rear	
Function Button	Power button to lock screen and pair remote control devices	

Power	NEON 17	NEON 24
Touchscreen	No	
Size	16.5"	24"
Resolution	FHD 1920x1080 - 16:9	4k DCI 4096 x 2160 - 17:9
Viewing Angle	180 degrees Horizontal & Vertical (+/- 10%)	
PPI	133	192
Bit Depth	10-bit (8+2 FRC)	True 10-bit

Backlight	Dynamic Full Array Local Dimming (FALD) 128 Zones	Dynamic Full Array Local Dimming (FALD) 512 Zones
Brightness	1000nits Full Screen brightness * (+/- 10%)	
Black Level	0nits	
LED	Wide Color Calibrated D65	
Contrast Ratio	Dynamic 1,000,000 : 1	
Aspect Ratio	16:9	17:9
Color Gamut	DCI P3	

Color Pipeline		
AtomHDR Technology	Yes	
3D LUT Support	Display only	
HDR Monitoring Technology	HLG, PQ, Camera LOG	
HDR Output Conversion	Log/HDR to HLG/ PQ	
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, / Log3G12, RED Log3G10 / RED LogFilm, FujiFilm F-log, Nikon N-Log PQ (HDR10), HLG	
Gamut	Sony SGamut / SGamut3 / SGamut3.cine, Canon Cinema / DCI P3 / DCI P3+ Panasonic V Gamut, Arri Alexa Wide Gamut, Rec709, Bt2020, DCI P3, DCI p3 65 JVC LS300, Red DragonColor / DragonColor2 / RedColor2 / RedColor3 / RedColor4 / RedWideGamut	

Module System		
Master Control Unit (MCU)	Yes	
AtomXpansion Slot	Yes, Support for SDI and future modules	

Video Input	
HDMI	1 x HDMI (2.0) 4Kp60
SDI	2 x 12G SDI via included AtomX SDI module
Signal (camera dependent)	Uncompressed true 10-bit or 8-bit 422
Video Preview Monitoring - HDR	For accurate full 10bit baseband video monitoring a 3rd party PCIe or Thunderbolt video I/O device with HDMI or SDI is required
LTC (Record Mode Only)	Wireless RF SYNC - Future FW Release (NEON17 Only)

Video Output	
HDMI	1 x HDMI (2.0)
SDI	1 x 12G SDI on Loop out from SDI, 2 x 12G SDI on playback via included AtomX SDI module
Signal	Uncompressed true 10-bit or 8-bit 422 (playback file dependent)

Audio In/Out	
Audio Quality	24/48kHz
Audio Codec	Linear 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 Out	Selected embedded stereo pair via 3.5mm headphone jack

Supported Codecs & Frame Rates (Record & Playback)	NEON 17	NEON 24
Supported resolution & FPS	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: 23.98/24/25/29.9/30/50/59.94/60p via SDI only 1080p: 23.98/24/25/29.9/30/50/59.94/60/100/120p 1080i: - 50/59.94i 720p: 50/59.94/60p	
Apple ProRes	LT, 422, HQ	
Avid DNx	DNxHR HQX. HQ, SQ, LB, DNxHD 220x, 220, 145, 36	

Playback		
Loop	Yes - full video file only	
Apple ProRes	Yes - Recorded on Device or Exported from NLE (in .MOV with linear PCM audio)	
Avid DNx	Yes - Recorded on Device or Exported from NLE (in .MOV with linear PCM audio)	

Recording Functions & Media		
Pre-roll record	No	
Supported media	16.5"	24"
Media support	FHD 1920x1080 - 16:9	4k DCI 4096 x 2160 - 17:9
File Naming	180 degrees Horizontal & Vertical (+/- 10%)	
Supported Editing applications	142	192

On Screen Tools	NEON 17	NEON 24
Waveform	Yes	
RGB Parade	Yes	
Vector Scope	Yes	
1 x Zoom	Yes	Yes
2 x Zoom	Yes	

Focus Peaking	Color selected / color / Mono / edges only	
False Color	Yes	
Zebra	Yes	
Isolate Color Channel	Blue Only	
Cine Frame Guides	2.4:1, 2.35:1, 1.9:1, 1.85:1, 4:3	
Safe areas	Yes	
Anamorphic Desqueeze	1.33x , 1.5x ,2x	

Timecode		
HDMI	Yes	
SDI	Yes	
Time Of Day	Yes	
Wireless RF	Future FW Release	

Onboard Processing		
Pulldown removal	24/25/30pSF > 24/25/30p (2:2 pulldown) 60i > 24p (3:2 pulldown)	
Deinterlace mode	Yes	
HD to 4K input to display	-	Yes
4K UHD downscale for HD on output	Yes	
DCI crop on output	Yes	

Remote Control		
HDMI	Auto HDMI Trigger, Supported Protocols - Canon, Sony, Atomos Open Standard	
SDI	SDI trigger camera selectable	
LANC 2.5mm Jack	LANC control - Calibration on MCU	
LE Bluetooth	REQUIRES Apple iOS device running version 12 and above	

What's in the Box			
Accessories included		NEON 17 Monitor, NEON Master Control Unit, 2 x Feet (inc. mount screws x 2), NEON Quick Start Guide, 1 x Master Caddy II (inc. screws), 19V AC Power Adapter with mount cage, AtomX SDI Expansion Module, Monitor Protective Sheath, MCU Protective Sheath, Hex Wrench	NEON 24 Monitor, NEON Master Control Unit, 2 x Feet (inc. mount screws x 2), NEON Quick Start Guide, 1 x Master Caddy II (inc. screws), 19V AC Power Adapter with mount cage, AtomX SDI Expansion Module, Monitor Protective Sheath, MCU Protective Sheath, Hex Wrench
Optional extras		Atomos NEON 17" Case, Xrite i1Display, Atomos USB A to Serial Calibration cable, AtomX USB-C Caddy	Atomos NEON 24" Case, Xrite i1Display, Atomos USB A to Serial Calibration cable, AtomX USB-C Caddy

Warranty	
Standard	1 year. Extended to 3 yrs on product registration

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

‡ With compatible camera/output device.