

Atomos Shogun ULTRA

Physical Specifications

Dimensions (W x H x D mm)	"198mm x 133mm x 40mm / 7,8"" x 5,2"" x 1,57""
Weight	730g / 1.6lb (excluding batteries)
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"

Environmental

Ambient operating temperature	Up to 40 Degrees Celsius
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Construction & 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	6.2V to 16.8V
Compatible batteries	1 x NP-F / L-Series
Battery voltage	7.2V
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 Type	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

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
3D LUT Display	.Cube Format
3D LUT Output	Loop out
3DLUT 50/50	Yes
Monitoring Modes	Native / 709 / HLG / PQ / 3D LUT
HDR output Conversion	HLG / PQ
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	
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
File Naming	
Standard	S/S/T & Rolling
Via SDI	RED, ARRI, Canon and Sony
Video Output	
HDMI	1 x HDMI 2.0
SDI loop 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 6E
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	100 clients
Bluetooth Network Range	10-15m (line of sight)
Number of BT clients	2 clients
LTC	
Resolution & Frame Rates Maximum (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
FHD 1920 x 1080 Interlaced
1280 x 720p
Apple ProRes RAW
ProRes HQ / 422 / LT
Avid DNxHD
Avid DNxHR
h.265
Primary Codec + Proxy Record
Pre Roll
Timelapse
Gang control

Playback

Playlist
Loop Playback
Apple ProRes RAW
ProRes HQ / 422 / LT
Avid DNx HD
Avid DNx HR
H.265

Monitoring

SDR
HDR
De-Interlace
Supported media
Interface
SATA 3 – MasterCaddy / SSDmini / CFast II (via adapter)
Master Caddy I
Master Caddy II
Master Caddy III
SSDmini
CFast II
File System

On screen tools

Waveform
RGB parade
Vector scope

Pull down
1080i50 / 1080i60
60p
up to 12bit 8Kp30 / 4Kp120
up to 4Kp60
up to 1080p60
up to 4Kp60
up to 4Kp60 (MOV container)
ProRes RAW, ProRes, DNx with H.265
8 secs HD / 4 secs 4k ProRes & DNx
Yes
SYNC record control

Yes, Selected, Favourites or Combined
Yes, with custom in and out points
Yes, recorded clips
Yes with linear PCM
Yes with linear PCM
Yes with linear PCM
Recorded clips

Native, 709, LUT
HLG, PQ Rec2020
Selectable mode

SATA 3 – MasterCaddy / SSDmini / CFast II (via adapter)
No
Yes
Yes
Yes
Yes via AtomX CF adapter
exFAT

3 sizes
3 sizes
Small / large

1 x Zoom
2 x Zoom
Focus peaking
Zebra
EL ZONE SYSTEM Colourized Exposure

Tap to zoom
Tap to zoom
Coloured and slider for threshold
Customisable

ARRI False color
Atomos False color
Isolate color channel
Cine Frame Guides
Social Frame guides
Safe areas
Grid markers
Frame Grab and Onion skin overlay

With IRE scale
Blue only
Preset and Custom
Preset and Custom
SMPTE frame size – Action and Safe
9 grid
Lossless PNG 1920 x 1080

Anamorphic desqueeze
Display Flip

Display 1.25x, 1.33x, 1.5x, 1.8x and 2x
vertical

Onboard Signal Processing

RAW to Video loop out
4K UHD downscale for HD
DCI Crop
I > P
PSF > P

Yes, conversion from Larger Resolutions to 4k
Yes, menu enabled
Yes, menu enabled
2:2 and 3:2
2:2 and 3:2

Remote control

Bluetooth LE
External Device Control
Serial 2.5mm Jack

via AtomControl App

Remote to USB – Z CAM

Supported Applications

XML – Cut, Tag & Edit
Apple ProRes Raw
Apple ProRes
Avid DNx

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

Warranty

Standard
Atomos Care360 Enhanced

1 Year
2 Year