

Atomos Shogun

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

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	
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 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	100 clients
Bluetooth Network Range	10-15m (line of sight)
Number of BT clients	2 clients
LTC	
Resolution & Frame Rates Maximum (Record, Monitor & Playback)	
6k RAW	up to 6Kp30 Via HDMI & 6Kp30 SDI
4k RAW	up to 4Kp60 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	up to 12bit 6Kp30
ProRes HQ / 422 / LT	up to 4Kp60
Avid DNxHD	up to 1080p60

Avid DNxHR
h.265
Primary Codec + Proxy Record
Pre Roll
Timelapse
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-Interface
Selectable mode

Supported media

Interface
SATA 3 – MasterCaddy / SSDmini / CFast II (via adapter)
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
EL ZONE SYSTEM Colourized Exposure

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

via AtomControl App

External Device Control

Serial 2.5mm Jack

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