Introduction

SHOGUN 7

Atomos Shogun 7 is a precision HDR monitor-recorder-switcher designed for the film and video professional. It can be used as either a stand-alone field monitor, recorder and switcher for event, documentary and live in-the-field storytelling; or as a tool for large-scale on-set episodic TV, film and cinema productions where multiple crew members such as focus pullers, grips and cinematographers require a consistent visual reference across the field monitor ecosystem. Shogun 7's portable size lets you monitor, analyze and tag while on set; and check how your content will look in your audience's home via real-time Dolby Vision output. With Shogun 7 you're not locked into any format, camera manufacturer or pipeline. It is a completely flexible master recording and production station.

This user manual will get you up to speed with all the amazing features packed into the Shogun 7 that will assist you during a shoot and speed up your workflow on set and in post production.

Stay up-to-date with the latest information and software by registering your product today

www.atomos.com/register

Your Shogun 7 includes base accessories to get you started, such as a mains power supply and a media Master Caddy. Additionally you will need a 2.5" Solid State Drive (SSD) or AtomX SSDmini, a compatible HDMI cable (Camera out/Shogun 7 in) and compatible batteries. Optional AtomX accessories such as power and accessory kits are also available. Visit the Atomos website for the latest accessory options.

Not all drives are compatible with the Shogun 7. For the most up-to-date information please visit: **www.atomos.com/drives**

Included:

- **Shogun 7**
- **1 x Master Caddy II + screws**
- **12V-3A AC power supply**
- **Shogun 7 Quick Start Guide**
- **EPP Carry Case**

13. Technical Specifications

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 / 325ppi
Aspect ratio	16:10 native resolution 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	2x, 1.5x, 1.33x
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 Log3G10 / RED LogFilm FujiFilm F-log Nikon N-Log PQ10k HLG
HDR Monitoring (Gamut)	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 (2.0)
SDI	Quad Link 4 x 3G/6G SDI*, 4 x 3G-SDI, 2 x 12G Single Link SDI
Signal	Uncompressed true 10-bit or 8-bit 422 (camera dependent)
Genlock	Genlock input signal and output signal

Video Output (Playout)

HDMI	1 x HDMI (2.0)
SDI	2x 4K-SDI 12G or HD-SDI 3G/6G
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 Out

HDMI	2 or 8ch 24-bit, camera dependent
SDI	12ch 48kHz 24-bit
Audio	2ch balanced XLR analogue in/out 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 - Slave

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	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
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, X-Rite i1DisplayPro 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 Sony ,

Warranty

1 Year	Extended to 3 years on product registration

Construction note: Shogun 7 is designed to operate in ambient temperatures up to 40°C/104°F. If you wish to extend the temperature of operation in high temperature conditions, set the TFT brightness to a minimum.

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

*Available in future firmware updates

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

‡ Patent pending.