



SHOGUN 7

7" HDR Pro/Cinema Monitor-Recorder-Switcher

Unbelievable HDR

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.

Live multi-cam has never been more portable

Monitor, record and switch between 4 live HD SDI video streams (and one program stream) for flexible in-the-field directing. Enjoy the freedom of asynchronous switching and gen lock in & out to connect to existing infrastructure. Shogun 7 offers up to HDp60 SDI ISOs x 4 recording. Once you've finished capturing your streams, just import the Atomos xml file into your NLE and your timeline populates with all your edits in place. Audio is also taken care of, with each ISO and program record, we insert the mixed analog stereo channels and embed 2 channels of digital audio in each recorded stream. The program stream always records the analog feed and switches between audio inputs for the on-camera audio to match the switched feed.

Single-camera storytelling in 4K, or 2K slow-mo

With the latest HDMI 2.0v you can capture up to 4Kp60 on any available camera, or via Quad Link, Dual Link or Single Link. If slow motion capture is important to your production, Shogun 7 lets you capture 2K up to 240p. You can tag on-the-fly while recording for direct-to-edit look up in Final Cut Pro X, Adobe Premiere* and Avid Media Composer*.

*Third party plug-in such as XtoCC to enable .fcpxml compatibility.

Advanced Atomos technology

To make the most advanced on-set production tool for creative enhancement, to achieve this we developed the most advanced screen technology today, and it took us three years. We developed "Dynamic AtomHDR" screen technology into Shogun 7's field monitor makes your images blacks blacker and whites brighter. We include real-time output to Dolby Vision capable displays so that you can quickly check that your creative intent will translate perfectly to audiences at home. We added Apple ProRes RAW recording to other popularly available formats. We added live asynchronous switching to record up to four real-time cameras at the same time.

Blacker blacks, brighter whites

The Shogun 7 screen is the most precise 7" field reference monitor to-date for both SDR and HDR production as well as up to 2Kp240 and 4Kp60. Display your work on the world's best HDR screen with the first-to-market Dynamic AtomHDR backlit technology, with 360 zones that revolutionizes the on-camera HDR monitor game. Dynamic AtomHDR achieves an astounding 1,000,000:1 contrast ratio with ultra-wide color, giving you the ultimate combination of blacker than black OLED for intense shadow detail and blazing 1500nit LCD performance for vivid high bright and HDR performance.

Record RAW, deliver accurate Dolby Vision HDR

Atomos and Dolby have teamed up to give you live Dolby Vision HDMI out, from any SDI or HDMI HDR camera. All courtesy of AtomOS 10. Simply connect your Dolby Vision capable TV or monitor to your Atomos product* and magically, automatically, the AtomOS analyzes the image, queries the TV, and applies the right color and brightness profiles for the maximum HDR image on the display or TV. This ensures the HDR image always looks as it was creatively intended. This is a valuable on-set reference check for the creative director and client. This function is also available in playback and playout from RAW and Log recorded ProRes RAW, ProRes and DNx rushes for instant time-saving, on-set and in-studio review. Utilize playback functions like slow motion, and insert edit and in and out points to speed up playlist compilation.

*new generation Shogun 7 or Ninja V

Edit HDR in the field

Monitor analyze and tag shots, making the most of portability while being on the go. Record direct to the desired NLE editing/grading/transcoding formats; from camera to standard industry finishing workflows, enjoy support for Apple Final Cut Pro, Avid Media Composer and Black Magic Resolve. Playback rushes on-set on-device to the best quality display or to a TV with full Dolby Vision support.

Balanced audio

Eliminate the need for a separate audio recorder. Add 48V stereo mics via the balanced XLR breakout cable. Select Mic or Line input levels, record up to 12 channels of digital audio from HDMI or SDI. Monitor selected stereo via the 3.5mm headphone jack.

High speed connections

Seamlessly connect any SDI or HDMI device for monitoring and recording. Cross convert between HDMI 2.0 and 1.5G/3G/6G/12G/Quad Link SDI in almost any combination and eliminate the need for specialist converters.

Price and availability

Price: US \$1499 ex. tax. Shipping June 2019.

SHOGUN 7 - Technical specifications

| Weight and Dimensions | |
|-------------------------------|---|
| Without batteries | 709g / 25oz. |
| Dimensions (W x H x D mm) | 214 x 127 x 45mmmm |
| Construction | Polycarbonate ABS |
| Mounting points | 1/4"-20 screw mount. 1x top and 1x bottom |
| Power | |
| Operating power | Polycarbonate ABS |
| 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 1.5hrs (monitor & record 4K 30p) 7800mAh – up to 2.2hrs (monitor & record 4K 30p) |
| DC In | 1 x DC in (6.2 - 16.8V) |
| Touchscreen | |
| Screen | Capacitive touch |
| Size | 7.2" |
| Resolution / PPI | 1920 x 1080 / 325ppi |
| Aspect ratio | 16:9 native |
| 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 |
| 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% |
| Brightness | 1500nit (+/- 10%) |
| Control | On the fly real-time brightness analysis for LED contro |
| HDR Conversion | Log/RAW to HLG or PQ |
| HDR Monitoring Technology | |
| 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 |
| Gamut | Sony SGamut / SGamut3 / SGamut3.cine Canon Cinema / DCI P3 / DCI P3+ Nikon Bt2020 Panasonic V Gamut Arri Alexa Wide Gamut Rec709 / BT.2020 JVC RED WideGamut / RED DragonColor / DragonColor2 / RED Color2 / RED Color3 / RED Color4 |
| Anamorphic de-squeeze | 2x, 1.5x, 1.33x |
| 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, 2x 12G single link SDI |
| Signal | Uncompressed true 10-bit or 8-bit 422 (camera dependent) |
| Genlock | Genlock input signal and output signal |

| Video Output (Layout) | |
|---|---|
| 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) |
| 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 |
| 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 |
| 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) |
| 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. |
| 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 |
| 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 |
| Meta data 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) |
| Master caddy dock | 75mm x 105mm x 12mm |
| Supported applications | 2.5" SATA to USB 2.0/3.0 |
| What's in the Box | |
| Accessories included | Shogun 7 unit, Master Caddy II x 1, 12V-3A AC power supply, Carry Case |
| Optional extras | |
| Accessories | Accessory Kit: 2 x battery, 1 x charger, 1 x power supply, HPRC case, USB dock, control cable, Dtap cable, Master Caddy x 4, Power supply, Sun hood Power Kit: 2 x battery, 1 x charger, 1 x power supply Other: Atomos HDMI cable, Breakout XLR Cable, X-Rite i1DisplayPro calibration |
| Warranty | |
| 1 Year from date of purchase | The main product, not including the IPS screen. |

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.

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