



SHOGUN INFERNO

PRODUCT INFO SHEET / Updated April 2016



PERFECT FOR:

- Music Video** Multi cam HDR/4K from Quad SDI cameras
- Sports Broadcast** High frame rate ISO recordings
- Cinema** Latest HDR and 4K 60p technologies

Shogun Inferno combines advanced HDR & High brightness monitor technologies with High frame rate & Raw recording capability along with playback & editing functionality that encourages on set collaboration. Simply put it is the most advanced field monitor & most advanced external recorder combined to make mastering a high resolution, high frame rate, high dynamic range workflow available to all filmmakers.

INFERNO SERIES CORE FEATURES

RECORD

QUAD SDI The Quad SDI inputs let you connect from cameras with multiple 1.5/3/6/12G SDI outputs without the need for converters.

4K 60P Record and play out pristine ProRes/DNxHR in 4K resolution and 24/25/30/50/60p frame rates.

HD 240P Apart from 4K recording, high frame rate HD from 50p to 240p can be recorded from cameras that output these high frame rates.

RAW RECORD Capture the RAW output from Sony FS5/FS7/FS700 and Canon C300MKIII/C500 over SDI, recording to either ProRes, DNxHR or CDNG.

PLAY

Playlists Create playlists easily, either entire clips or tagged parts of clips, for playback on the unit or out to a larger screen.

Power Our patent pending Continuous power system automatically swaps to the second battery when power is low for uninterrupted recording in the field.

MONITOR

ATOM HDR AtomHDR lets you shoot with the high brightness range of your camera's Log profile and preview the final, vibrant post production HDR result.

ATOM HDR 10bit 10-bit monitor processing increases the number of colors from 16.7 million for standard 8-bit panels to 1.07 billion, minimizing color banding on screen.

7" HIGH BRIGHT 1500 nit For Standard Dynamic Range (SDR) shooting ramp the brightness slider up to 1500 nit for hood-free outdoor monitoring.

3D LUT Apply a custom look to SDR footage by uploading an applying ".cube" 3D LUT's. View in full/half mode on screen, output it to a monitor or record into the footage.

EDIT

ProRes Avid DNxHR Record to visually lossless Apple ProRes or AVID DNxHD as an edit friendly, visually lossless industry benchmark independent of the camera brand used.

PQ I/O Take PQ out into larger HDR compatible larger screens or feed HDR from your NLE into the PQ input for HDR grading using your Atomos product.

SHOGUN INFERNO SPECIFICATIONS

Weight	
Without batteries & media	709g / 25.0oz
With batteries & media	1153g / 40.7oz
Dimensions (W x H x D mm)	214 x 127 x 45mm, 8.4 x 5 x 1.8"
Construction	High quality lightweight ABS Polycarbonate for durability & portability
	Built-in armor protection
Power	
Operating power (including SSD)	10 - 27W
Compatible batteries	NP 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)
Continuous power * Patent pending	Primary-secondary battery system Change batteries without losing power Loop batteries continuously
Touchscreen	
Size	7.1"
Resolution	1920 x 1200
PPI	325
Aspect ratio	16:9 native
Color Gamut	REC709 HDTV
Look up table (LUT) support	3D LUT (.cube file format)
Anamorphic de-squeeze	2x, 1.5x, 1.33x, Panasonic 8:3
Technology	SuperAtom IPS panel (capacitive touch), calibration to Rec.709 with optional calibration unit
HDR	
AtomHDR	Yes
Supported Log formats	Sony SLog2 / SLog3, Canon CLog / CLog 2, Arri Log C, Panasonic Vlog, JVC JLog, Red LogFilm
Supported Gamuts	Sony SGamut / SGamut3 / SGamut3.cine Canon Cinema / BT2020 / DCI P3 / DCI P3+ Panasonic V Gamut Arri Alexa Wide Gamut
Bit depth	10-bit (8+2 FRC)
Brightness	1500nit (+/- 10%)
PQ in/out In = Post Out = Monitor	Yes / Yes
Video input/loop out	
HDMI	1 x HDMI (2.0)
SDI	Quad link 4 x 3G SDI or up to 12G single link SDI
Signal	Uncompressed true 10-bit or 8-bit 422 (camera dependent)
Video output (play out)	
HDMI	1 x HDMI (2.0)
SDI	1x 4K-SDI 12G/6G or HD-SDI 3G/1.5G
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 24/25/30/50/60/100/120/200*/240* 2160p 24/25/30/50/60
SDI to SDI	720p 50/60, 1080i 50/60, 1080pSF 24/25/30, 1080p 24/25/30/50/60/100/120/200*/240* 2160p 24/25/30/50/60
Video signal conversion	
HDMI to SDI	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120/200*/240* 2160p 24/25/30/50/60
SDI to HDMI	720p 50/60, 1080i 50/60, 1080p 24/25/30/50/60/100/120/200*/240* 2160p 24/25/30/50/60

Supported Codecs & frame rates (record & playback)	
Raw to CDNG (Record only)*	Codecs Cinema DNG for supported cameras (Sony FS5/FS7/ FS700, Canon C300MKII, C500, Panasonic Varicam RAW*) Frame rates 4K DCI / 4K UHD; 24/25/30p 2K / 1080p; 24/SF24/25/SF25/30/SF30/50/60/100/120p
Raw to ProRes / DNxHR	Codecs Apple ProRes HQ, 422, LT AVID DNxHR HQX, HQ, SQ, LB Frame rates 4K DCI / 4K UHD; 24/25/30/50/60p 2K*** / 1080p; 24/SF24/25/SF25/30/ SF30/50/60/100/120/200/240p
Video to ProRes / DNxHR	Codecs Apple ProRes HQ, 422, LT AVID DNxHR HQX, HQ, SQ, LB Frame rates 4K DCI / 4K UHD; 24/25/30/50/60p 2K*** / 1080p; 24/SF24/25/SF25/30/ SF30/50/60/100/120/200/240p 1080i; 50/60i 720p; 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 RAW)
Audio in/out (48kHz PCM audio)	
HDMI	2 or 8ch 24-bit, camera dependent
SDI	12ch 48kHz 24-bit
Audio	2ch balanced XLR analog in/out Dynamic range >90dB Max signal level +24dBu Max analog gain +52dB 48V Phantom Power for Mic
Remote start/stop	
HDMI	Auto HDMI Trigger Supported Protocols - Canon, Sony, Atomos Open Standard
SDI	SDI trigger camera selectable
Other	LANC control - Slave
Playback	
Playlist	Yes
Genlock/LTC	Yes / Yes
Recording	
Pre-roll record	Yes (HD Bs, 4K 2s)
Custom timelapse	Yes
Meta data tagging	Yes (10 tags available)
Supported media (Approved List Only)	4K / HD (50/60/120p) SSD 2.5", HDD (7,200 up to 1080p60)
Master caddy case	HD SSD 2.5", HDD (5,400 up to 1080p30)
Master caddy dock	Master Caddy II (included) 75mm x 105mm x 12mm
Supported applications	2.5" SATA to USB 2.0/3.0
XML support	Supported Applications FCPX/FCP7+ / Media Composer 5.0+ / Premiere 5.5+ EDIUS 6.0+ / Vegas Pro 10+ / Lightworks / Autodesk Smoke 2015
Accessories included	FCPX XML native, FCP7 supported with conversion (Adobe compatible)
Optional extras	Shogun Inferno unit, Custom yellow HPRC case, Control cable, XLR breakout cable, 2x NP-F750 5200mAh batteries, Fast battery charger, SATA 3/2 to USB 3/2 HDD/SSD docking station, DC to D-Tap coiled cable, Master Caddy II x 5, 12V-3A AC adapter x 2 (Fast charger & DC power), HDR sunhood
	Atomos HDMI cable, X-Rite calibration