O

The O Series O9 is a compact, rugged digital high-speed camera designed to shoot high-speed footage in remote and demanding environments. The O Series provides up to 32 GB of integrated DDR and a 240 GB removable SSD. It supports 2560 x 1440 @ 3,000 fps and produces extremely low-noise images. O9 standard features include HDSDI, GPS, Backup battery, Manual Micro Four Thirds Mount, Power Supply and Breakout Cable for easy out-of-the-box operation.

- Removable SSD
- Video Out (HDSDI)
- GPS & IRIG Compatible
- Backup battery
- Multiple Lens Mount options

APPLICATIONS

Media, Ranges

KEY FEATURES

Maximum Resolution	2560 x 1440
Maximum FPS @ Maximum Res	3,000 fps
Maximum FPS	110,000 @ 2560 x 16
Streaming Frame Rate	85 fps
Operating Temperature	-40+50°C / -40+122°F

FRAME PROPERTIES

Sensor Type	CMOS – Proprietary
Sensor Size	19.2 x 10.8 mm
Sensor Format	1.3 inch
Pixel Size (micron)	7.50 x 7.50 um
Pixel Depth	12 bit mono 36 bit color
Sensitivity	30,000 ISO Mono 10,000 ISO Color
Min. Exposure Time	1µs (*Shorter Integration optional)
Array	3.7 megapixel
Quantum Efficiency	1

MECHANICAL

Weight	1.07 kg or 2.37 lbs
Dimensions	103 x 49 x 92 mm (W x H x L)
Mount	Manual MFT (Standard). F, PL, Canon Electronic Control (Optional).

IMAGE CAPACITY

DDR	16GB (Standard) – 32GB (Optional)
SSD	240GB or 480GB (Optional)

TRIGGERING AND SYNCHRONIZATION

Sync In	Phase-lock TTL, IEEE1588, 1PPS
Sync Out	Frame sync / Strobe
Trigger	TTL & Switch/Circular buffer with on-camera or software trigger
IRIG	Optional (In place of GPS)
GPS Time Code	Standard
HDSDI	Standard

POWER

Input Voltage	24 VDC
Battery	Standard

COMMUNICATION INTERFACE

Ethernet	1000BaseT

EMBEDDED LOGIC

Debayering	Color Cameras Only
Temporal Noise Reduction	Standard
Dynamic Noise Reduction	Standard
User defined ROI's and LUT's	Standard
Frame to frame Auto-Exposure and Motion Trigger	Standard
Mission Mode for Remote/Autonomous Operation	Standard

SOFTWARE

Motion Studio	Windows 32/64
Motion Inspector	Windows 32/64 – MAC OS X – Apple iOS
Plug-ins/SDK	SDK, LabVIEW™ or MatLab®
File Formats	Proprietary RAW
On-the-fly Conversion	TIF, BMP, JPG, PNG, AVI, MPG, TP2, MOV, MRF, MCF