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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	60%

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
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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 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

