# O

## Model 9

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 |