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The O Series O10 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 3840 x 2400 @ 1,000 fps and produces extremely low-noise images. O10 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

APPLICATIONS

Media, Ranges

KEY FEATURES

Maximum Resolution	3840 x 2400
Maximum FPS @ Maximum Res	1,000 fps
Maximum FPS	55,000 @ 3840 x 16
Streaming Frame Rate	40 fps
Operating Temperature	-40+50°C / -40+122°F

FRAME PROPERTIES

Sensor Type	CMOS - Proprietary
Sensor Size	17.9 x 11.2 mm
Sensor Format	1.3 inch
Pixel Size (micron)	4.67 x 4.67 um
Pixel Depth	12 bit mono 36 bit color
Sensitivity	6,000 ISO Mono 2,000 ISO Color
Min. Exposure Time	1µs (*Shorter Integration optional)
Array	9.2 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).

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

IMAGE CAPACITY

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

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