

The O Series is a new, compact and rugged digital high-speed camera designed to operate in the most demanding environments and is ideal for shooting high speed footage in remote locations. With the most integrated image storage among the small form factor cameras, the O Series provides up to 32 GB of integrated DDR and a 240 GB removable SSD which is included standard with purchase. The O9 supports 2560 x 1440 pixel resolution at 3,000 fps and uses IDT's latest CMOS sensor technology which produces extremely low-noise images. Additional standard features include HDSDI, GPS, Backup battery and Manual Micro Four Thirds Mount. Power Supply and Breakout Cable are also included for easy out-of-the-box operation.



## KEY FEATURES

Maximum Resolution	2560 x 1440
Maximum FPS @ Maximum Res	3,000 fps
Maximum FPS	120,000 @ 2560 x 16
Streaming Frame Rate	85 fps
Operating Temperature	-40+50°C / -40+122°F

## SENSOR

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	9000 ISO Mono 3000 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)
Shock & Vibration	Shock: 200G / Vibration: 40G - All axes
Mount	Manual MFT (Standard). F, PL, Canon Electronic Control and MFT Mount with Electronic Control (Option)

## IMAGE CAPACITY

Image Storage @ Max Frame Rate (DDR 16)	6,289
Image Storage @ Max Frame Rate (DDR 32)	12,802
Image Storage @ Max Frame Rate (SSD 240)	6,280
Image Storage @ Max Frame Rate (SSD 240)	90,563

## INPUT

Sync-in	Phase-lock TTL
Trigger	TTL & Switch/Circular buffer with on-camera or software trigger
IRIG	Optional (In place of GPS)
GPS Time Code	Standard

## OUTPUT

Sync Out	Frame sync / Strobe
HDSDI	Standard

## POWER

Input Voltage	24 VDC
Battery	Standard

## COMMUNICATION

Ethernet	1000BaseT
PCie	0

## 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