The Os-series is a new digital high-speed camera designed to operate in the most demanding environments. The salient design feature of the Os 3 are its compact size combined with a wide data bus, making it capable of achieving very high frame rates (up to 3,000 fps) including transfer speeds to high-capacity solid-state (non-volatile) memory. Configurable DDR options include 16GB and 32GB.

KEY FEATURES

Maximum Resolution	1280 x 1024
Maximum FPS @ Maximum Res	3,000 fps
Maximum FPS	91,500 @ 1280 x 8
Streaming Frame Rate	330 fps
Operating Temperature	-40+50°C / -40+122°F

SENSOR

Sensor Type	CMOS – Proprietary
Sensor Size	13.9 x 11.1 mm
Sensor Format	1.3 inch
Pixel Size (micron)	10.85 x 10.85 um
Pixel Depth	12 bit mono 36 bit color
Sensitivity	6000 ISO Mono 2000 ISO Color
Min. Exposure Time	1µs (*Shorter Integration optional)
Array	1.3 megapixel
Quantum Efficiency	60%

MECHANICAL

Weight	0.69 kg or 1.52 lbs
Dimensions	86 x 63 x 88 mm (W x H x L)
Shock & Vibration	Shock: 200G / Vibration: 40G – All axes
Mount	C-Mount standard. Manual MFT optional, F & PL Adapter optional.
IP Rating	0

IMAGE CAPACITY

Image Storage @ Max Frame Rate (DDR 16)	15,697
Image Storage @ Max Frame Rate (DDR 32)	31,644
Image Storage @ Max Frame Rate (SSD 256)	17,264
Image Storage @ Max Frame Rate (SSD 512)	19,708
Image Storage @ Max Frame Rate (SSD 256)	235,152
Image Storage @ Max Frame Rate (SSD 512)	470,383

INPUT

Sync-in	Phase-lock TTL
Trigger	TTL & Switch/Circular buffer with on-camera or software trigger

OUTPUT

Sync Out	Frame sync / Strobe
HDSDI	Optional

POWER

Input Voltage	24 VDC
Battery	Optional

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