

OS

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 5,000 fps) including transfer speeds to high-capacity solid-state (non-volatile) memory. Configurable DDR options include 16GB and 32GB.

- Optional solid-state, non-volatile memory
- High dynamic range, low noise
- Supports PIV and short-integration modes

APPLICATIONS

Industrial, R&D, UAV, Laboratory



KEY FEATURES

Maximum Resolution	1280 x 1024
Maximum FPS @ Maximum Res	5,000 fps
Maximum FPS	152,000 @ 1280 x 8
Streaming Frame Rate	385 fps
Operating Temperature	-40+50°C / -40+122°F

FRAME PROPERTIES

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	1

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, Electronic MFT & PL Adapter (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
HDSDI	Optional

POWER

Input Voltage	24 VDC
Battery	Optional

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)
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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