OS

Model OS7

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 7 are its compact size combined with a wide data bus, making it capable of achieving very high frame rates (up to 2,700 fps) including transfer speeds to high-capacity solid-state (non-volatile) memory. Configurable DDR options include 8GB, 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, Media

KEY FEATURES

Maximum Resolution	1920 x 1280
Maximum FPS @ Maximum Res	2,700 fps
Maximum FPS	84,000 @ 1920 x 16
Streaming Frame Rate	250 fps
Operating Temperature	-40+50°C / -40+122°F

FRAME PROPERTIES

Sensor Type	CMOS – Proprietary
Sensor Size	17.5 x 11.7 mm
Sensor Format	1.3 inch
Pixel Size (micron)	9.13 x 9.13 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	2.5 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

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)

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