

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 7 are its compact size combined with a wide data bus, making it capable of achieving very high frame rates (up to 4,200 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, Media

KEY FEATURES

| | |
|---------------------------|----------------------|
| Maximum Resolution | 1920 x 1280 |
| Maximum FPS @ Maximum Res | 4,200 fps |
| Maximum FPS | 130,000 @ 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). |

IMAGE CAPACITY

| | |
|-----|-----------------------------------|
| DDR | 16GB (Standard) - 32GB (Optional) |
|-----|-----------------------------------|



TRIGGERING AND SYNCHRONIZATION

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|----------|---|
| 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

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|---------------|----------|
| Input Voltage | 24 VDC |
| Battery | Optional |

COMMUNICATION INTERFACE

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|----------|-----------|
| Ethernet | 1000BaseT |
|----------|-----------|

EMBEDDED LOGIC

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|---|--------------------|
| 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 |

SOFTWARE

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|-----------------------|--|
| 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 |