



Model 7

OS-7 (1920 x 1280) High definition at up to 5000fps

The third version OS Series cameras are compact, rugged, and have the most integrated image storage among the small form factor cameras - 16GB (32GB optionally) of DDR and optionally up to 1TB of non-volatile (SSD) memory, which can be configured in **Backup, Streaming or Mission Modes**. OSV3 cameras are configured with active cooling and an angled side connector. IDT's latest CMOS sensor technology produces extremely low-noise, high dynamic range images with up to 12-bit mono or 36-bit color. Power supply and breakout cable for easy out-of-the-box operation are included. All OS cameras support IEEE 1588 (PTP) timing and synchronization.



-Optional FEATURES

- Solid-state, non-volatile memory up to 1TB
- PIV and short-integration (**100ns**)
- HD-SDI output (pictured)
- IRIG - in camera IRIG for legacy timing and synchronization
- 32GB high speed video memory
- breakout box to replace single pig-tail breakout cable

-MECHANICAL

Weight	0.69 kg or 1.52 lbs
Dimensions	63 x 63 x 87 mm (W x H x L)
Shock	200G for 20ms/ Vibration 40G all axes

OPERATING TEMPERATURE

Active cooling -40+50 °C / -40+122 °F

OPTICAL INTERFACE

C-mount standard	Optional Canon mount
Optional F-mount	Optional PL-mount

FRAME PROPERTIES

CMOS image sensor with 1.3" Optical Aperture
Sensitivity - 30,000 ISO Mono 10,000 ISO Color
Max Resolution 1920 x 1280 pixels
Pixel size and pitch 9.12 x 9.12 µm
Pixel depth 12-bit mono / 36-bit color
Max Rate (@max resolution) = S1: 1350 fps S2: 2700 fps S3: 4200 fps

IMAGE CAPACITY

DDR: 16 GB - standard, 32GB optional
SSD: Without HDSDI: 250GB (optional) or 500GB (optional) With HDSDI: 250GB (optional)

EMBEDDED LOGIC

Debayering (color cameras ONLY)
Temporal Noise Reduction (TNK)
Dynamic Noise Reduction (DNR)
User defined ROI's and LUT's
Frame to frame Auto-Exposure and Motion Trigger
IEEE1588 (Timing over Ethernet)
Mission Mode for Remote/Autonomous Operation

COMMUNICATION INTERFACE

Gigabit Ethernet (1000BaseT)

TRIGGERING AND SYNCHRONIZATION

TTL and switch closure trigger
Circular buffer with trigger On camera (motion) and software trigger
IEEE1588, 1 PPS , & TTL Synchronization

SOFTWARE

Motion Studio - Windows® OS
Motion Inspector - touch screen support for Windows® & Mac OS®

APPLICATIONS

Industrial, R&D, UAV, Laboratory, Media, Airborne