



OS-7 (1920 x 1280)

The third version OS Series cameras are compact, rugged, and have the most integrated image storage among the small form factor cameras - 8GB (16GB or 32GB optionally) of DDR and optionally up to 2,000GB 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. Video output via an HD-SDI port is also optionally available.

Model 7



-Optional FEATURES

- Solid-state, non-volatile memory up to 2TB
- PIV and short-integration (100ns)
- HD-SDI output (pictured)
- 16GB or 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: 8GB - 4,958 full resolution 12-bit images
5,956 full resolution 10-bit images

SSD: 512GB - 325,721 full resolution 12-bit images
391,245 full resolution 10-bit images

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