IDT *INNOVATION IN MOTION*

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 4 are its compact size combined with a wide data bus, making it capable of achieving very high frame rates (up to 3,000 fps) including transfer speeds to high-capacity solid-state (non-volatile) memory.

KEY FEATURES

Maximum Resolution	1024 x 1024
Maximum FPS @ Maximum Resolution	3,000 fps
Image Storage @ Max Frame Rate (DDR 8)	6,218
Image Storage @ Max Frame Rate (SSD 512)	6,864
Streaming FPS @ Max Resolution	355 fps
Maximum FPS	130,000 @ 1024 x 8
Minimum Exposure Time	1μs
Sensitivity ASA/ISO	8000 ISO Mono 3000 ISO Color
Power Requirements	18-36 VDC
Operating Temperature	-40+50°C / -40+122°F

SENSOR

Sensor Type	CMOS – Proprietary
Sensor Size	13.9 x 13.9 mm
Sensor Format	1.3 inch
Pixel Size (micron)	13.68×13.68 um
Pixel Depth	12 bit mono 36 bit color

INPUTS

Trigger	TTL & Switch/Circular buffer with on-camera or software trigger
Sync	Phase-lock TTL

OUTPUTS

Sync	Frame sync / Strobe
HDSDI	Optional

FEATURES

Approx. Size	63 x 63 x 87 mm (W x H x L)
Approx. Weight	0.69 kg or 1.52 lbs
Shock/Vibration Rating	Shock: 200G / Vibration: 40G – All axes
Battery Powered Operation Time	Optional
Mount	C-Mount standard , F Adaptor 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

COMMUNICATION

Ethernet	1000BaseT

INNOVATION IN MOTION

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 4 are its compact size combined with a wide data bus, making it capable of achieving very high frame rates (up to 4,500 fps) including transfer speeds to high-capacity solid-state (non-volatile) memory.

KEY FEATURES

Maximum Resolution	1024 x 1024
Maximum FPS @ Maximum Resolution	4,500 fps
Image Storage @ Max Frame Rate (DDR 8)	6,218
Image Storage @ Max Frame Rate (SSD 512)	6,504
Streaming FPS @ Max Resolution	355 fps
Maximum FPS	200,000 @ 1024 x 8
Minimum Exposure Time	1µs
Sensitivity ASA/ISO	8000 ISO Mono 3000 ISO Color
Power Requirements	18-36 VDC
Operating Temperature	-40+50°C / -40+122°F

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COMMUNICATION

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KEY FEATURES

Maximum Resolution	1024 x 1024
Maximum FPS @ Maximum Resolution	6,000 fps
Image Storage @ Max Frame Rate (DDR 8)	6,218
Image Storage @ Max Frame Rate (SSD 512)	6,338
Streaming FPS @ Max Resolution	355 fps
Maximum FPS	330,000 @ 1024 x 8
Minimum Exposure Time	1µs
Sensitivity ASA/ISO	8000 ISO Mono 3000 ISO Color
Power Requirements	18-36 VDC
Operating Temperature	-40+50°C / -40+122°F

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