



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 1,350 fps) including transfer speeds to high-capacity solid-state (non-volatile) memory. Configurable DDR options include 16GB and 32GB.

KEY FEATURES

Maximum Resolution	1920 x 1280
Maximum FPS @ Maximum Resolution	1,350 fps
Image Storage @ Max Frame Rate (DDR 8)	5,956
Image Storage @ Max Frame Rate (SSD 512)	8,092
Streaming FPS @ Max Resolution	340 fps
Maximum FPS	42,000 @ 1920 x 16
Minimum Exposure Time	1 μ s (100 ns with SI option)
Sensitivity ASA/ISO	30000 ISO Mono, 10000 ISO Color
Power Requirements	18-36 VDC
Operating Temperature	-40+50°C / -40+122°F

SENSOR

Sensor Type	CMOS - Proprietary
Sensor Size	17.5 x 11.8 mm
Sensor Format	1.3 inch
Pixel Size (micron)	9.12x9.12 μ m
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	67 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
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KEY FEATURES

Maximum Resolution	1920 x 1280
Maximum FPS @ Maximum Resolution	1,350 fps
Image Storage @ Max Frame Rate (DDR 8)	5,956
Image Storage @ Max Frame Rate (SSD 512)	8,092
Streaming FPS @ Max Resolution	340 fps
Maximum FPS	42,000 @ 1920 x 16
Minimum Exposure Time	1 μ s (100 ns with SI option)
Sensitivity ASA/ISO	30000 ISO Mono, 10000 ISO Color
Power Requirements	18-36 VDC
Operating Temperature	-40+50°C / -40+122°F

SENSOR

Sensor Type	CMOS - Proprietary
Sensor Size	17.5 x 11.8 mm
Sensor Format	1.3 inch
Pixel Size (micron)	9.12x9.12 μ m
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	67 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

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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.

KEY FEATURES

Maximum Resolution	1920 x 1280
Maximum FPS @ Maximum Resolution	4,200 fps
Image Storage @ Max Frame Rate (DDR 8)	6,002
Image Storage @ Max Frame Rate (SSD 512)	6,242
Streaming FPS @ Max Resolution	340 fps
Maximum FPS	136,000 @ 1920 x 16
Minimum Exposure Time	1 μ s (100 ns with SI option)
Sensitivity ASA/ISO	30000 ISO Mono 10000 ISO Color
Power Requirements	18-36 VDC
Operating Temperature	-40+50°C / -40+122°F

SENSOR

Sensor Type	CMOS - Proprietary
Sensor Size	17.5 x 11.8 mm
Sensor Format	1.3 inch
Pixel Size (micron)	9.12x9.12 μ m
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	69 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
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IDT Os-Series Version 3 Airborne Camera with integrated storage: 8GB of DDR and optional solid-state non-volatile memory of up to 0.5TB. With a maximum resolution of 1920 x 1280 pixels, the OSA7 can record up to 1,350 fps. Latest CMOS sensor technology produces extremely low-noise images with up to 12-bit mono or 36-bit color. Support for several sensor platforms to deliver various resolutions and frame rates. Power supply and break-out cable for easy out-of-the-box operation are included.

KEY FEATURES

Maximum Resolution	1920 x 1280
Maximum FPS @ Maximum Resolution	1,350 fps
Image Storage @ Max Frame Rate (DDR 8)	5,956
Image Storage @ Max Frame Rate (SSD 512)	8,092
Streaming FPS @ Max Resolution	340 fps
Maximum FPS	42,000 @ 1920 x 16
Minimum Exposure Time	1µs (100 ns with SI option)
Sensitivity ASA/ISO	6000 ISO Mono 2000 ISO Color
Power Requirements	18-36 VDC
Operating Temperature	-40+50 °C / -40+104 °F

SENSOR

Sensor Type	CMOS - Proprietary
Sensor Size	17.5 x 11.8 mm
Sensor Format	1.3 inch
Pixel Size (micron)	9.12x9.12 µm
Pixel Depth	12 bit mono 36 bit color

INPUTS

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

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
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Plug-ins/SDK	SDK, LabVIEW™ or MatLab®
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