



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 1024 x 1024 pixels, the OSA4 can record up to 1,200 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	1024 x 1024
Maximum FPS @ Maximum Resolution	1,200 fps
Image Storage @ Max Frame Rate (DDR 8)	6,218
Image Storage @ Max Frame Rate (SSD 512)	9,136
Streaming FPS @ Max Resolution	355 fps
Maximum FPS	64,000 @ 1024 x 8
Minimum Exposure Time	1µs (100 ns with SI option)
Sensitivity ASA/ISO	8000 ISO Mono 3000 ISO Color
Power Requirements	18-36 VDC
Operating Temperature	-40+50 °C / -40+104 °F

SENSOR

Sensor Type	CMOS - Proprietary
Sensor Size	13.9 x 13.9 mm
Sensor Format	1.3 inch
Pixel Size (micron)	13.68x13.68 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
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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