



Airborne

Model OSA7

The IDT Os Series Version 3 Airborne Camera comes with 16 GB of integrated DDR and can be configured with up to 1 TB of non-volatile solid-state memory. 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. Support for several sensor platforms deliver various resolutions and frame rates. Power Supply, OS Mounting Plate and Break-out cable for easy out-of-the-box operation are included.

- Solid-state, non-volatile memory
- High dynamic range, low noise

APPLICATIONS

Airborne, R&D, Industrial

KEY FEATURES

Maximum Resolution	1920 x 1280
Maximum FPS @ Maximum Res	1,350 fps
Maximum FPS	42,000 @ 1920 x 16
Streaming Frame Rate	250 fps
Operating Temperature	-40+50 °C / -40+104 °F

FRAME PROPERTIES

Sensor Type	CMOS - Proprietary
Sensor Size	17.5 x 11.7 mm
Sensor Format	1.3 inch
Pixel Size (micron)	9.12 x 9.12 um
Pixel Depth	12 bit mono 36 bit color
Sensitivity	30,000 ISO Mono, 10,000 ISO Color
Min. Exposure Time	1µs (*Shorter Integration optional)
Array	2.5 megapixel
Quantum Efficiency	1

MECHANICAL

Weight	0.71 kg or 1.56 lbs
Dimensions	86 x 63 x 82 mm (W x H x L)
Shock & Vibration	Shock: 200G / Vibration: 40G - All axes
Mount	C-Mount (Standard), Manual MFT, F & PL Adapter (Optional)
IP Rating	IP54

TRIGGERING AND SYNCHRONIZATION

Sync In	Phase-lock TTL, IEEE1588, 1PPS
Sync Out	Frame sync / Strobe
Trigger	TTL & Switch/Circular buffer with on-camera or software trigger
GPS Time Code	Optional
HDSDI	Optional



POWER

Input Voltage	24 VDC
Battery	Optional

COMMUNICATION INTERFACE

Ethernet	1000BaseT
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EMBEDDED LOGIC

Debayering	Color Cameras Only
Temporal Noise Reduction	Standard
User defined ROI's and LUT's	Standard
Frame to frame Auto-Exposure and Motion Trigger	Standard

IMAGE CAPACITY

DDR	16GB (Standard) - 32GB (Optional)
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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