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 Moutining 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

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)

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

Specifications are subject to change without notification. | Data accurate as of 29 Jan. 2024