



CM142

Multi Sensor Gyro-Stabilized System

IP66

LWIR

1270g

Multi Sensor

Experience the best performance for the lowest size, weight, power and cost with the CM142 multi-spectral imaging system. For improved detection, recognition and identification, the CM142 includes a long-wave infrared sensor with 3x optical zoom and a HD daylight sensor with 30x continuous optical zoom, ideal for intelligence, surveillance, target acquisition and reconnaissance.



AIRBORNE

Technical Specifications

GIMBAL CAPABILITIES

Mechanical Axes	2 (Pan and Tilt)
Position Accuracy	0.0046° (80 µrad)
Elevation	±120°
Azimuth	360° Continuous
Slew Rate	300° / sec
Power	Idle 15W / Peak 80W
Voltage	18 - 24V
Modes	Rate/ Scene/ Track/ GEO-Lock
Communication Link	Ethernet / RS232 Communication Libraries Available

HARDWARE

Weight	2.8lb / 1270g
Diameter	135mm / 5.3in
Height	167mm / 6.6in
Temperature	-10°C to +50°C 14°F to +122°F
Environment	IP66
Shock Limit	+20 G

VIDEO SPECIFICATIONS

Analogue Output	Composite
Digital Output	H.264 MPEG2 TS
Snapshots	1280x720 (EO) 640x480 (IR) Stored On Board
Standards	MISB (0102.10, 0601.7, 0603.2, 0604.3 & 0903.3) & STANAG (4609) Compliant

INTERNAL INS / GNSS

Horizontal Position Accuracy	2.0m
Vertical Position Accuracy	3.0m
Heading Accuracy	0.8°
Accelerometer Range	±16G
Supported	GPS L1 / GLONASS L1 GALILEO E1 / BeiDou L1
Timing Accuracy	30ns

INTERNAL VIDEO PROCESSOR FEATURES

Recording on Board	✓
Encoding	✓
Object Tracking	✓
E-Stabilization	✓
Scene Steering	✓

Configurations

DAYLIGHT (EO)

Type	CCD Global Shutter
Resolution	1280 x 720
FoV	62.9° to 2.4°
Zoom	30x Optical
Frame Rate	25Hz

THERMAL (IR)

Type	LWIR	LWIR
Resolution	640x480	640x480
FoV	25° to 18°	25 to 8.8°
Focal Length	35mm	25 to 70mm
Frame Rate	Up to 30Hz	Up to 30Hz

LASER

Sensor	Pointer	LRF
Wavelength	1.55µm	1.55µm
Class	IIIB	1
Power	Up to 150mW	
Range		Up to 3km

Contact Us



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