



CM132

Multi Sensor Gyro-Stabilized System

IP67

Sub 1kg

LWIR

Low SWaP-C

Experience high-quality performance at day and night with the miniature CM132 multi sensor, gyro-stabilized imaging system. The CM132 is a compact, sub 1kg / 2.2lb system, ideal for integration into tactical UAS, aerostats, ground vehicles, USVs and small marine vessels.



AIRBORNE • GROUND • MARITIME

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	<2.2lb / <1kg
Diameter	130mm / 5in
Height	144mm / 5.7in
Temperature	-10°C to +50°C 14°F to +122°F
Environment	IP67
MTBF	> 1000 hours
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 Supported	±16G 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 Continuous Optical
Frame Rate	25Hz

THERMAL (LWIR)

Wavelength	8 - 12µm
Resolution	640x480
FoV	25 to 18°
Focal Length	35mm
Frame Rate	Up to 30Hz

LASER (OPTIONAL)

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

Contact Us



USA and EMEA
 Ascent Vision Technologies
 +1 406-388-2092
 info@ascentvision.com
 www.ascentvision.com
 Bozeman, Montana, US



APAC
 AVT Australia
 +61 265 811 994
 sales@ascentvision.com.au
 www.ascentvision.com
 Melbourne, VIC, Australia