

CM202

DATASHEET

Multi Sensor Gyro-Stabilized Gimbal

IP66

<3500 g

MWIR

Low SWaP-C



ITAR
FREE



Technical Specifications

Gimbal Capabilities

Mechanical Axes	2 (Pan and Tilt)
Position Accuracy	0.0046° (80 µrad)
Elevation	+130° / -30°
Azimuth	360° Continuous
Slew Rate	150° / sec
Power	55W
Voltage	9 - 36V
Modes	Rate/ Scene/ Track/ GEO-Lock
Communication Link	Ethernet / RS232 Communication Libraries Available

Internal Video Processor Features

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

Hardware

Weight	3500g
Diameter	190mm
Height	295mm
Temperature	-10°C to +50°C
Environment	IP66
MTBF	> 1000 hours
Shock Limit	20 G
Peripherals	3x GPIO 1x SMA
GPIO Functions	Power Ethernet RS232 AHRS Composite Video

Video Specifications

Analogue Output	Composite
Digital Output	h.264 MPEG2 TS / (RTP) MPEG4 MPEG2 TS / (RTP)
Snapshots	1280x720 (Stored On Board)
Standards	MISB (0102.10, 06017, 0603.2, 0604.3, and 0903.3) & STANAG (4609) Compliant

Internal INS

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

Standard Configurations

Electro-Optical (EO)



Type	CCD Global Shutter
Resolution	1280 x 720
FoV	31.4° Wide to 1.1° Tele
Zoom	30x Optical
Frame Rate	25 Hz

Infrared (IR)



Sensor	Neutrino	Tau SWIR	Tau 2 LWIR	XTM640
Lens	25-325 mm	50, mm	35 - 105 mm	35 - 105 mm
Type	MWIR	SWIR	LWIR	LWIR
Resolution	640x512	640x512	640x512	640x512
Zoom	13x Optical	Up to 4x	3x Optical	3x Optical
Frame Rate	Up to 30 Hz	Up to 30 Hz	Up to 30 Hz	Up to 30 Hz

Laser



Sensor	Laser Range Finder
Range	Up to 5,000m
Wavelength	1.55 µm
Class	1
Power	≤ 3W

Other sensor configurations are available. Contact a member of the sales team for more information.

Detect, Recognize, Identify



	EO at 1.1° HD	EO at 0.55° Extender	LWIR at 6° w/ Op. Zoom	MWIR at 17° w/ Op. Zoom	LWIR at 6.2° 100mm Lens
Detect	9,000 m	15,170 m	2,470 m	8,720 m	2,390 m
Recognize	4,490 m	5,060 m	820 m	2,910 m	800 m
Identify	2,530 m	2,840 m	460 m	1,640 m	450 m
Detect	18,500 m	33,340 m	5,430 m	12,000 m	5,250 m
Recognize	9,880 m	11,100 m	1,810 m	6,390 m	1,750 m
Identify	4,200 m	6,250 m	1,020 m	2,800 m	990 m