

# CM202

## DATASHEET

### Multi Sensor Gyro-Stabilised Gimbal

- IP66
- <3500 g
- MWIR
- Low SWaP-C



ITAR  
FREE



# Technical Specifications

## Gimbal Capabilities

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

## Internal Video Processor Features

<b>Recording on Board</b>	✓
<b>Encoding</b>	✓
<b>Object Tracking</b>	✓
<b>E-Stabilisation</b>	✓
<b>Scene Steering</b>	✓

## Hardware

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

## Video Specifications

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

## Internal INS

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

# Standard Configurations

### Electro-Optical (EO)



### Infrared (IR)





### Laser



Type	CCD Global Shutter	Sensor	Neutrino	Tau SWIR	Tau 2 LWIR	XTM640	Sensor	Laser Range Finder
<b>Resolution</b>	1280 x 720	<b>Lens</b>	25-325 mm	50, mm	35 - 105 mm	35 - 105 mm	<b>Range</b>	Up to 5,000m
<b>FoV</b>	31.4° Wide to 1.1° Tele	<b>Type</b>	MWIR	SWIR	LWIR	LWIR	<b>Wavelength</b>	1.55 µm
<b>Zoom</b>	30x Optical	<b>Resolution</b>	640x512	640x512	640x512	640x512	<b>Class</b>	1
<b>Frame Rate</b>	25 Hz	<b>Zoom</b>	13x Optical	Up to 4x	3x Optical	3x Optical	<b>Power</b>	≤ 3W
		<b>Frame Rate</b>	Up to 30 Hz	Up to 30 Hz	Up to 30 Hz	Up to 30 Hz		

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

# Detect, Recognise, 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
Recognise	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
Recognise	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