CM160

DATASHEET

Multi Sensor Gyro-Stabilized Gimbal

| IP66 | <1.5 Kg | LWIR | Low SWaP-C |

ITAR FREE

Technical Specifications

Gimbal Capabilities

Mechanical Axes	2 (Pan and Tilt)
Position Accuracy	0.011° (190 µrad)
Elevation	±120°
Azimuth	360° Continuous
Slew Rate	65° / sec
Power	Start Up 20W / Av. Rating 12W
Voltage	9 – 36V
Modes	Rate/ Scene/ Track/ GEO–Lock
Communication Link	Ethernet / RS232 Communication Libraries Available

Hardware

Weight	1450g
Diameter	160mm
Height	237mm
Temperature	–10°C to +50°C
Environment	IP66
MTBF	> 1000 hours
Shock Limit	20 G
Peripherals	1x GPIO
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, 0601.7, 0603.2, 0604.3, and 0903.3) & STANAG (4609) Compliant

COMPATIBLE INS

Spatial	✓
Spatial Dual	✓
MicroPilot	✓

Internal Video Processor Features

Recording on Board	✓	**Encoding**	✓	**Object Tracking**	✓	**E–Stabilization**	✓	**Scene Steering**

Standard Configurations

Electro–Optical (EO)

Infrared (IR)

Laser

	Electro-Optical		**Sensor**	**Tau 336**	**Tau 640**	**XTM640**		**Sensor**	**Laser Range Finder**	**Nano Point**
Type	CCD Global Shutter		**Lens**	25/ 35/ 50 mm	25/ 35/ 50 mm	25 / 35 mm		**Range**	Up to 5,000m	852nm
Resolution	1280 x 720		**Type**	LWIR	LWIR	LWIR		**Wavelength**	1.55 µm	IIIB
FoV	31.4° Wide to 1.1° Tele		**Resolution**	336x256	640x512	640x480		**Class**	1	to 150mW
Zoom	30x Optical		**Zoom**	2x, 4x Digital	2x, 4x, 8x Digital	Up to 8x Digital		**Power**	≤ 3W	
Frame Rate	25 Hz		**Frame Rate**	Up to 30 Hz	Up to 30 Hz	30 Hz				

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

Detect, Recognize, Identify

		EO at 1.1° HD	LWIR at 25° 25mm Lens	LWIR at 18° 35mm Lens	IR at 12.4° 50mm Lens
	Detect	6,500 m	440 m	610 m	1,500 m
	Recognize	3,370 m	150 m	200 m	450 m
	Identify	1,900 m	80 m	120 m	220 m
	Detect	17,000 m	960 m	1,350 m	1,960 m
	Recognize	7,410 m	320 m	450 m	660 m
	Identify	4,170 m	180 m	250 m	370 m