

SEE™ IR PAN & TILT

DESCRIPTION

The SEE IR unit is a passive un-cooled Thermal Imager (TI), operating in the far spectral band. SEE IR P&T operations are controlled via serial link.

For surveillance applications, maximum panoramic vision is obtained while the SEE IR P&T is roof mounted.

- High resolution un-cooled focal plane array
- Fast optics (F# 0.8), resulting in a very sensitive system
- Large field of view (FOV)
- Compact and lightweight aluminum Pan & Tilt
- Ruggedized and weatherized Pan and Tilt design
- Sealed enclosure ensuring reliable operation in harsh environments



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Hardware	Infrared Sensor (IR)	Gimbal
Power – 27 watts typical, 48 watts Max	Type – Un-cooled micro bolometer Staring Array	Height – 0.77 ft Weight – 6 kg
Weight – 6 kg	Resolution – 320 x 240	Angular Speed – 0 to 72°/s pan, 0 to 28°/s tilt
Dimensions – height 235 mm (Incl. Mounting clamp) Dia 245 mm (rotation clearance)	NETD – 50 mK	Azimuth Coverage – 0 to 440° (slip ring option- N360°)
Cooling – Ambient air	Angular Coverage – Horiz 40° X Vert 30°	Elevation Coverage – 0 to 240°
Operating Temp. – from -40 °C to 50 °C	Cooling Method – Ambient air	
Storage Temp. – from -46 °C to 50 °C	Modes of Operation – Instant operation	
Interface – RS 232		
Video Output– NTSC or PAL		
Vibration – 3 grms 5-1000 Hz, 3 axis, Random		

Target Range DRI	Conditions	Detection	Recognition	Identification
NATO	Target contrast 1.25C Target dimension 2.3m x 2.3m Probability of 50% Atmospheric transmission: 0.7 km-1	1 km	330 meters	170 meters
Group of 3 men	Target contrast 2C Target dimension 1.8m x 2.3m Probability of 50% Atmospheric transmission: 0.7 km-1	960 meters	290 meters	150 meters