

Super Long Range Thermal Imager

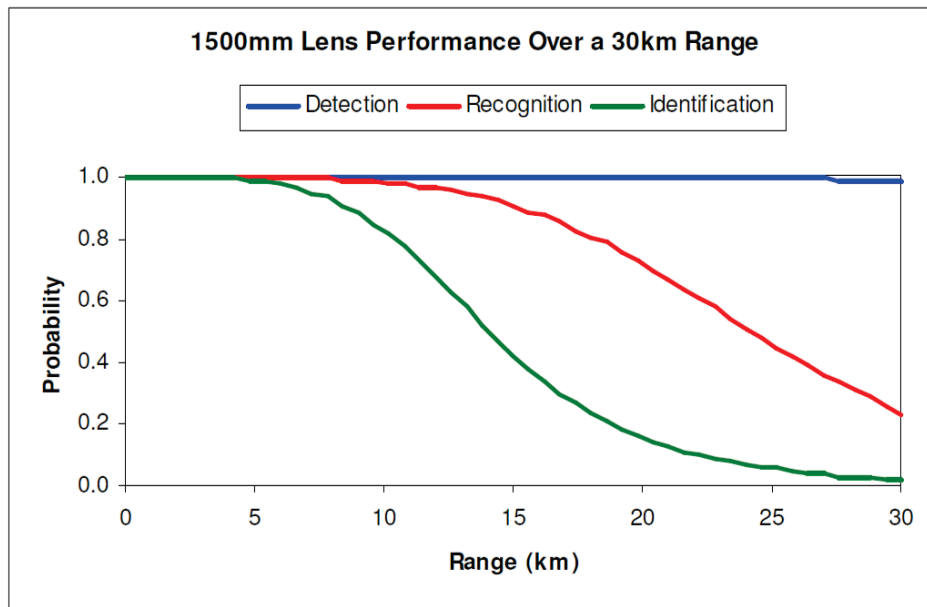
The SLR TI system is a triple field of view, 24 hour thermal imager designed for surveillance and security applications where long standoff ranges are necessary. At the heart of the SLR TI is an Indium Antimonide (InSb) detector optimized for high sensitivity and low noise in the 3mm to 5mm infrared band.

The system is turn-key and is offered as a camera or with choice of pan/tilt.

Equipped with lens and body heaters with a water-tight pressurized housing, the SLR TI is ready to provide 24 hour image performance in nearly any environment.



Range (N₅₀) for acquisition probability for a boat with a 9.1m Critical Dimension



Fast f/ 5.3 triple field of view super long -range system:

- ☒ 1500mm(0.37 degrees)
- ☒ 400mm (1.37 degrees)
- ☒ 105mm (5.0 degrees)

Highly cost-effective detector format :

- ☒ QVGA format, 320x240
- ☒ 30 micron pixel pitch less impacted by diffraction blur than smaller pitch detectors
- ☒ Mid Wave 3 -5 micron InSb detector, spectrally filtered for optimum signal to noise ratio

Port Security - Oil Platforms - Coastal Surveillance - Customs/Border Protection - Range Security - Airports

ECSI International

SLR TI

Optical

Triple Field of View system

Geometric f/Number (all fields of view) f/5.3

1500mm lens:

HFOV 0.37°

VFOV 0.27°

Minimum object distance 305 m (1000 ft)

400mm lens:

HFOV 1.37°

VFOV 1.03°

Minimum Object distance 122 m (400 ft)

105mm lens:

HFOV 5°

VFOV 3.7°

Minimum object distance 30 m (100 ft)

System

Nominal Sensitivity <60mK

Video Frame Rate 60 frames/sec

Geometric Cold Shield Efficiency. 100%

Output Video RS -170

Sensor Resolution 320 x 240

Cool down Time < 8 minutes at 30°C ambient



Mechanical

Dimensions:

Height 41 cm (16 in)

Width 61 cm (24 in)

Length 99 cm (39 in)

Weight <37kg (80 lbs)

Electrical

Input Voltage 10.6 to 16 VDC

..... 120 VAC, 50/60 Hz, single phase power

Nominal Power 120 W max, 85 W typical

Connectors.....Mil -spec

Environmental

Ambient Operating Temperature -30°C to +55°C

Storage Temperature -40°C to +70°C

Operational Altitude -90 m to 3000 m

Transit Altitude up to +12,000 m

Humidity..... to 100%RH

Encapsulation IP67, Nitrogen purged

Contact:

ECSI International
790 Bloomfield Avenue
Building C -1, Clifton, NJ 07012
Tel: (973) 574-8555
Fax: (973) 574-8562
ecsi@ecsiinternational.com
www.ecsiinternational.com



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