

# Thermal Systems International (TSI)

P.O. Box 9949, Haifa, 34341, ISRAEL

## NIGHT SEEKER M-640



**NIGHT SEEKER M-640 is a rugged Thermal Night Vision Camera System for military and paramilitary surveillance, including Airborne, Ground and Naval applications. The System is suitable for both Day and Night operations and can be used under hazy or misty conditions.**

**The Night Seeker M-640 employs a 640 x 480 InSb Focal Plane Array. The camera is controlled either via communication protocol or by discrete signals, which are activated either locally or remotely by an RCU (Remote Control Unit). An on-board Digital Zoom of x2.5 or x2 is fitted as standard together with an optical x2.5 Doubler.**

### MECHANICAL:

Overall length	390mm.
Maximum height	188mm.
Maximum width	174mm.
Weight	6.5 Kg
Construction	Aluminium, hard black anodized with gloss white epoxy finish.
Environment	MIL SPEC according to Mil Std 810 & 461
Operating temperature	-32° to + 64° C
Noise level	inaudible at 6m
Mounting	¼" Whitworth.
Hardpoint	M5.0 x 1D Helicoil 15 points. (std configuration)

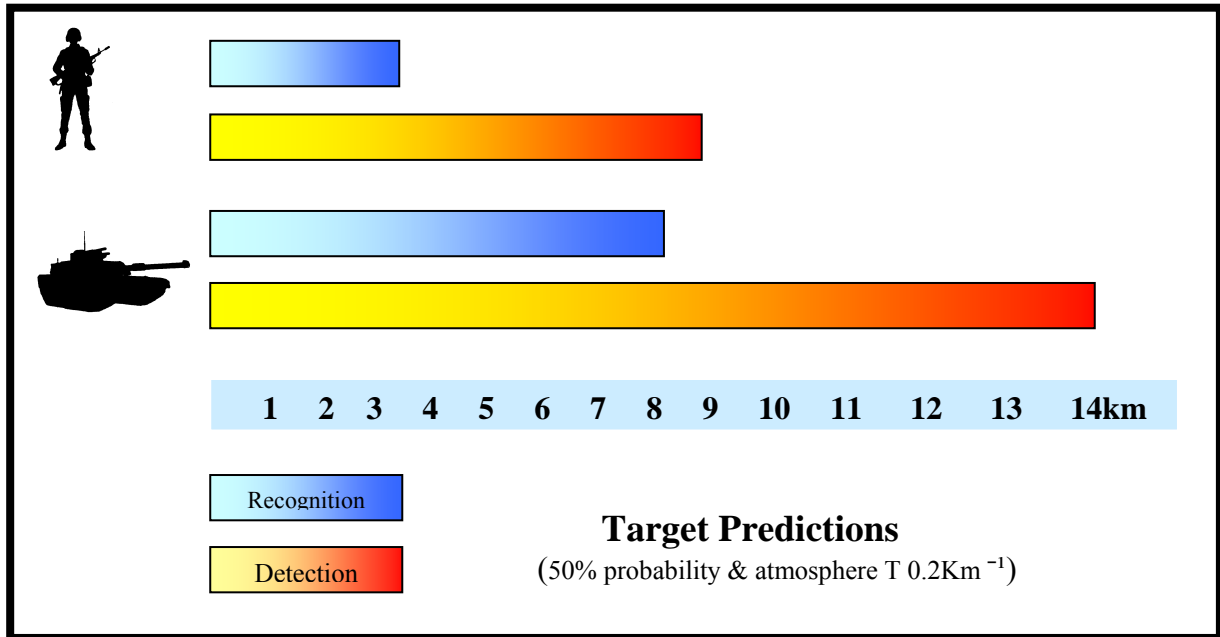
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## OPTICAL SPECIFICATIONS:

Objective Lens	22 to 275mm F/5.5 with continuous zoom & auto focus.
Horizontal Field of View	25° to 2°.
Vertical Field of View	18.75° to 1.5°.
Focus	5m to infinity.

## ELECTRICAL SPECIFICATIONS:

Focal Plane Array	InSb.
Spectral Range	3 to 5 microns.
Number of pixels	640 x 480.
NETD	≤20° mK at ambient temperature.
Cooling	Micro Stirling Engine.
Noise level	inaudible at 50m.
Frame rate	60Hz.
Analog Video Output	CCIR or RS-170.
Digital Video output	14bit RS422 or LVDS.
External Connection	13pin Amphenol Connector from Remote Control Unit.
External Controls:	
On/Off	Toggle Switch.
Focus	Mom switch.
Digital Zoom	Mom Switch.
NUC	Mom Switch.
Video Polarity	Mom Switch.
Camera Power Source	28v DC standard or optional 12v DC both derived from mains input in Remote Control Unit.

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## **ELECTRICAL SPECIFICATIONS cont'd:**

Consumption	35W maximum.
Mains Power input	90 to 230v AC.

## **NIGHT SEEKER M-640** is supplied with the following:

Remote Control Unit with Cables.  
Hard Shell Carrying Case.  
Operator's Manual.

## **OPTIONAL EXTRA'S:**

On-board Digital Compass.  
Global Positioning Systems.  
Video Tracking Software.  
Gimbals.  
Solid State Laser Rangefinder.  
Soft Carrying Bag.