

Thermal Systems International (TSI)



Range-Seeker M320

General

The Range seeker M320/M640 Thermal Surveillance System is a highly sensitive, wide spectrum forward looking infrared camera. The camera recognizes IR and near IR wave length from long distances in very poor visibility conditions. The Range seeker M320 Thermal Surveillance System is a cooled IR Detector, sensitive in the $3\mu - 5\mu$, spectral band, a 320 x 240 high performance FPA, InSb detector, integrated with a powerful electronic processor and proprietary software algorithms.

Features and Benefits

- Wide spectral band, very high sensitivity
- High dynamic range
- Short delay time
- High signal-to-noise ratio
- Digital video output and RS 170 or CCIR over fiber optics
- Electronic zoom
- Anti-blooming mechanism
- Full control and software updates via communication over fiber optics
- Generates real-world video images for display on operator's monitor screen or HUD
- High acquisition rate
- Compact and light
- Sealed enclosure, MIL STD 810
- Operates in adverse weather conditions, fog, rain, snow, dust and complete darkness.

Technical Data

Features	Description / Performance
Focal PlaneArray	InSb (30 μ m pitch)
Spectral Range	3-5 μ m
Number of Pixels	320 x 240 ;
Telescope	Focus from 1 m to infinity
Focal Length	19 to 275 mm
Horizontal Field of View	2 \hat{u} to 29 \hat{u} .
Vertical Field of View	1.5 $^{\circ}$ to 18 $^{\circ}$.75.
F #	5.5
Analog Video Output	CCIR or RS-170
Digital Video Output	14Bit over fiber optics
Remote Control	RS422 or RS 232 over fiber optics
Control Operation	On\Off, Video, Polarity, NUC and more.
Operating Voltage	28V Nominal

Tel: +972 4 8222279

E-mail: cardinal@barak.net.il

Fax: +972 4 8327613

Thermal Systems International (TSI)



NETD (sensitivity)	$\leq 5^{\circ} \text{mK}$
Non Uniformity Correction NUC	Better than 0.1% including bad pixel correction
Operating Temperature Range	-40°C to +55°C
Dimensions (maximum)	L278 x H130 xW166 including connectors and windowcover
Weight	< 3.5Kg
Environmental Qualification	MIL-STD 810E
Power Consumption	35W, Max.



Tel: +972 4 8222279

E-mail: cardinal@barak.net.il

Fax: +972 4 8327613