



THERMAL TANK INFRARED SYSTEM

Today's battlefield requires armoured vehicles to provide effective fire and combat capability whatever the visibility conditions. THETIS is designed to provide tanks and combat vehicles with passive infrared (IR) observation and firing capabilities at night, in the presence of smoke or in other low visibility conditions.

THETIS comprises modular self-contained functional units, giving the system high flexibility in performance and installation without armour modifications.

THETIS can be configured as a main autonomous night Fire Control System (FCS) as well as a night sighting unit for the upgrade of an existing FCS. It incorporates the company's high performance IR focal plane array sensor technology, either LWIR or MWIR, for high resolution night vision.

Taking into account the integration needs, THETIS may be installed either under armour with a mirror head linked to the LOF or above armour.

APPLICATIONS

- Night targeting
- Night surveillance
- Existing sighting systems upgrade.

KEY BENEFITS

- Target tracking
- Ease of operation
- Detects stationary and moving targets
- Ease of integration in existing sophisticated systems
- Mounted under or above armour
- Modular design for easy installation into small AIFV turrets as well as MBTs.

TECHNICAL SPECIFICATION

MIRROR HEAD	
Field of Regard (Elevation)	-20° to +60° (Slaved to weapon)
Field of Regard (Traverse)	Integral to turret
Gun Elevation Sensor	YES
MAN MACHINE INTERFACE	
Multi Function Graphic Control Console	
Stadimetric and ammo ballistics scales	
Video Tracker	
Video Processing	
SYSTEM INTERFACES	
RS-422 STANDARD	
ETH 10-100 OPTION 1	
CANBus OPTION 2	
POWER SUPPLY	
Voltage	28 VDC (18-36 VDC)
Standard	MIL STD 704D
ENVIRONMENT	
Standard MIL STD 810E	
Operating temperature	-30°C +55°C
Storage temperature	-40°C +70°C
DIMENSION AND WEIGHT (ACCORDING TO CONFIGURATION)	
Max dimensions (W x D x H)	245mm x 240mm x 505mm
Max weight	13Kg

THERMAL IMAGER	
Bandwidth	3-5um (MWIR) or 8-12 um (LWIR)
Detector	640 x 512 (MCT FPA)
Narrow FOV	2.4° x 1.9° or 2.5° x 2°
Wide FOV	8° x 10° or 9° x 7.2°
Sensitivity	15mK or 25mK
Integrated DVP	Contrast enhancement
	Contour enhancement
	Local area processing
Digital zoom	2 - 4x
Video output	CCIR 625/50hz/SVGA



RANGE PERFORMANCE (KM)

