



THETIS **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.

THETIS incorporates Selex ES'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 SPECIFICATIONS

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 (mm)	245 x 240 x 505
Max Weight	13Kg

SELEX ES THERMAL IMAGER

		TILDE	TILDE S		ERICA FF	ALICE
Bandwidth		8 -12 µm (LWIR)	8 - 12 µm (LWIR)		3 - 5 µm (MWIR)	8-12 µm (LWIR)
Detector		288 x 4 TDI	640 x 512 (MCT FPA)		640 x 512 (MCT FPA)	640 x 480 - (Uncooled)
Fields of view			TILDE A	TILDE B		
Dual FOV	Narrow FoV	3.2° x 2.4°	2.5° x 2.0°	2.7° x 2.2°	2.4° x 1.9°	4.6° x 3.4°
	Wide FoV	8.0° x 6.0°	9.0° x 7.2°	8.1° x 6.5°	10° x 8.0°	13.8° x 10.4°
	(Tilde A only) Medium FoV		4.0° x 3.2°			
Single FOV						32° x 26° or 8.2° x 6.2° *
ZOOM						25° x 19° > 4.3° x 3.2° *
Sensitivity		30 mK	25 mK		15 mK	50 mK
Integrated DVP (Digital Video Processing)		NO	Proprietary suite for real-time: - contrast and contour enhancement - local area processing.		Proprietary suite for real-time: - contrast and contour enhancement - local area processing.	Proprietary suite for real-time: - contrast and contour enhancement - local area processing.
Electronic ZOOM		2X - 4X	2X - 4X		2X - 4X	2X - 4X
Video Output		CCIR 625/50	CCIR 625/50		CCIR 625/50/ SVGA	CCIR 625/50-VGA

* Interchangeable lenses

For more information please email infomarketing@selex-es.com

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