Selex ES
A Finmeccanica Company

Optronics Systems

TILDE S
THERMAL IMAGER FOR LONG RANGE DETECTION & ENGAGEMENT

Delivering the best resolution and clarity at all times and whatever the conditions is at the heart of Selex ES's electro-optics systems. TILDE S is the highly successful response to high sensitivity long-range detection requirements.

Based on improved Selex ES thermal imaging modules, TILDE S is a thermal imager operating in the LWIR spectral band with a staring FPA 640 x 512 Selex ES detector. TILDE S has been designed and qualified to work in the harshest environments (temperature, vibration) and is self contained in a rugged, sealed enclosure. A wide selection of optical objectives customises detection ranges.

Typically equipped with a double FOV objective, the optical surfaces are coated with a high quality anti-reflective coating to maximise transmission.

The reliable and low-consumption design permits to operate in hard environment. A set of advanced image processing algorithms, providing a high quality video output where no detail is lost.

APPLICATIONS
- Fire control systems for tanks, AIFVs
- Multisensor turrets for land and naval applications

KEY FEATURES
- Programmable configuration
- Autofocus
- Multiple communication I/F
- CCIR video signal compatible with Commercial-Off-The-Shelf (COTS) monitors, controlled via an asynchronous RS 422 serial data link operable by COTS PCs
- Graphics overlays
- Powered directly from vehicle power supply or from battery pack
- Local Contrast & Detail Enhancement,
- NUC: On-board gain and offset calibration

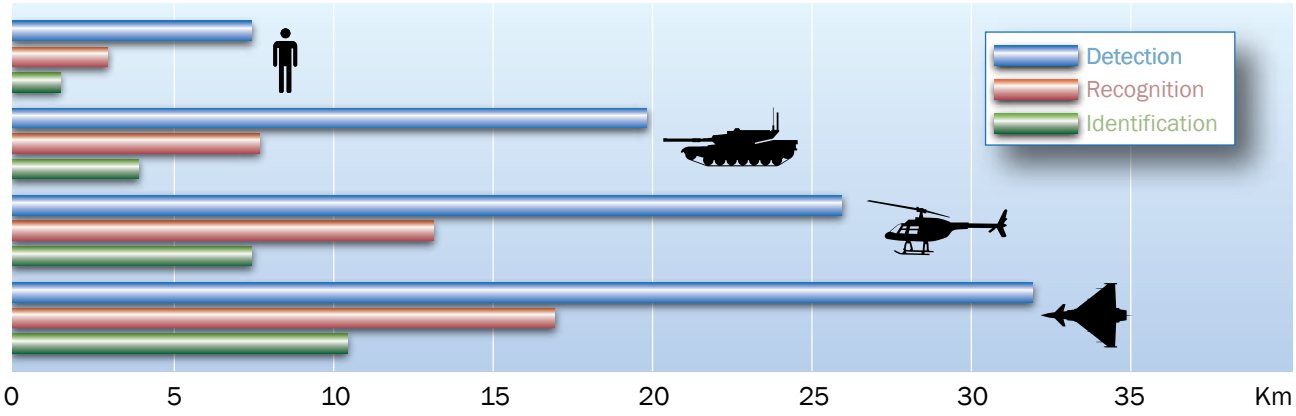
TECHNICAL CHARACTERISTICS

Parameters		Characteristics	
Airtight		TILDE is equipped with a valve for the pressurization with nitrogen	
Power Supply		From +18 to +32 Vdc	
Video output		Standard CCIR 625/50	
Connection and control		By means serial line RS-422 (RS-232 maintenance)	
Digital video Output		16 bit/pixel LVDS electrical standard	
Image enhancement		Digital Video Processing	
Detector		Staring Array 640 x 512 Spectral band from 8 to 12 µm	
Electronic zoom		2x, 4x	
Sensitivity		25mK	
Environmental		Fully ruggedized Mil-STD-810	
Temperature		-40°C to +55°C	
Field of View (FOV)		TILDE A	TILDE B
	Wide	9.0° X 7.2°	8.1° X 6.5°
	Medium	4° X 3.2°	
	Narrow	2.5° X 2°	2.7° X 2.2°
Weight		9kg	5.2kg
Dimensions (mm)		370x140x195	230x120x180

Tilde A

Tilde B

RANGE PERFORMANCE (ACTUAL TARGETS)



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

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