



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 the company's electro-optics systems. TILDE S is the highly successful response to high sensitivity long-range detection requirements.

Based on improved thermal imaging modules, TILDE S is a thermal imager operating in the LWIR spectral band with a staring FPA 640 x 512 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 antireflective 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.

TILDE S

TECHNICAL SPECIFICATION

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) (KM)

