

TPN Gunner Sight Kit



Elbit Systems' Gunner Sight Kit is an advanced thermal imaging upgraded solution for the TPN gunner's night-vision periscope channel. The kit comes with an advanced 17μ 640x480 Uncooled Thermal Imaging Core, a long-range 230mm focal length and 100mm aperture lens, a control panel with a built-in controller, and a new high-resolution OLED-based eyepiece. The controller provides target-distance estimation for improved detection and recognition of targets, as well as setting the aiming point to assure accurate hitting of the target. Especially designed for enhanced gunner performance for tanks, it provides outstanding video-processing capabilities, in various light and weather conditions. The kit preserves a similar user interface and basic functionalities of the original TPN periscope, but with major improvements. The thermal channel provides enhanced capabilities for extreme weather and impaired visual conditions such as fog, rain and snow. Elbit Systems' technical team is in direct contact with the customer for fast and simple installation-keeping integration in-house. The customizable kit can be seamlessly integrated with a variety of tanks and has a range of options such as display monitors.

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Key Benefits

Replaces old night-vision channel light-intensifier technology with new uncooled thermal-imaging technology, to greatly enhance gunner sights for a wide range of tanks such as T64's, T72's and T80's.

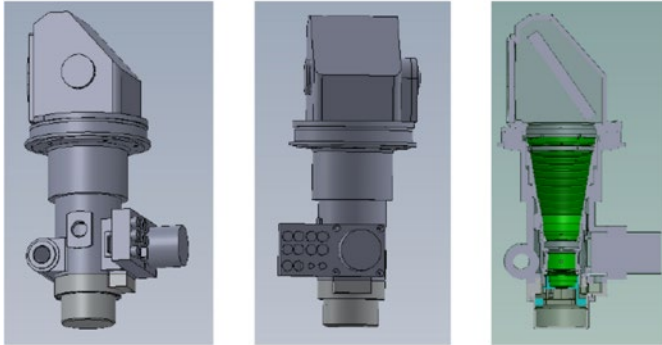
Enhanced Vision for Improved Operation

The new thermal-imaging channel gives gunners increased visual range for identification and acquisition of targets and a clearer view in situations of limited visibility and complete darkness.

Keeps Integration Local

Ready-to-install thermal imaging sight kit with a variety of easily customizable options, keeping integration work local for in-house upgrades.

System Description



System Specifications

Features	Description / Performance
Thermal Resolution	640x480
FPA Pitch	17 μ
Sensitivity NETD (F#1, 25°C)	<30mK
FPA Material	VOx
Lens Aperture	100mm
FOV	HFOV 2.7 degrees, VFOV 2.0 degrees
NATO Target* D/R/I	7.3 km / 3.7 km / 2.2 km
Time to Image	<5 secs
Video Output	PAL/NTSC Analog output
Digital Zoom (steps of 0.1)	x1 to x12
Operating Voltage	27VDC
Power Consumption	<2W

Kit Components

- 640x480 17 μ IR Core
- Upgraded Periscope (Germanium window)
- New 100mm Aperture Lens
- OLED-based Eyepiece
- Control Panel
- Power supply: MIL-STD 1275 Protected
- Electronics Card
- Internal Harnesses