

TKN Upgrade Kit



PERISCOPE THERMAL IMAGING UPGRADE KIT



Opgal's TKN Upgrade Kit is an advanced thermal imaging modernization solution for the commander periscope I2 night vision channel, that comes with an advanced uncooled thermal imaging core and athermal lens. Specially designed for enhanced commander situational awareness in BMP and BTR armored vehicles and T55 tanks, the thermal channel provides best-in-class video processing capabilities for extreme weather and impaired visual conditions such as fog, rain, and snow. Opgal's TKN Upgrade Kit replaces old elements with electro-optical (EO) components, providing major improvements for better situational awareness and enhanced vision capabilities, while preserving the same user interface and basic functionalities of the original TKN periscope.

KEY BENEFITS

KEY FEATURES

- 24/7 Thermal Imaging
- Modified Prism
- Electro-Optical Components for Periscope Upgrade
- All Weather Visibility
- Self and Simple Installation
- ITAR Free

ADVANTAGES

- Cost Effective
- Enhanced Commander Vision for Improved Operation
- Increased Visual Range
- Military Grade STD
- Fits BMP's, BTR's and T55's
- Variety of Easily Customizable Options
- Vox Core

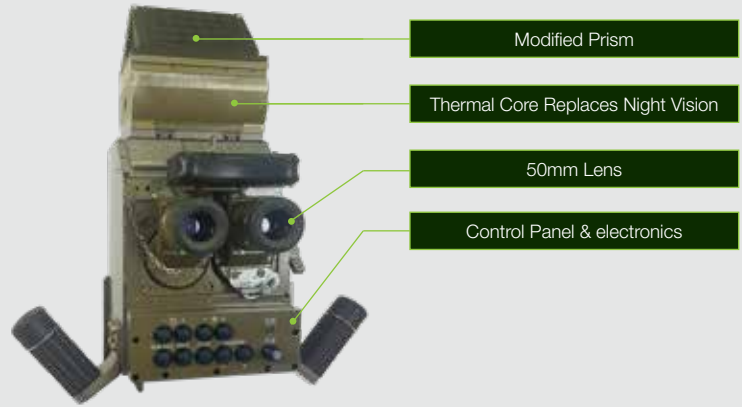
KIT COMPONENTS

- 640 x 480 17 μ IR Core
- Upgraded Periscope (New Mirror and Windows)
- OLED Image Display
- Internal Main Harness



SEAMLESS INTEGRATION

Opgal's TKN Upgrade Kit is a thermal imaging sight kit with a variety of easily customizable options. Using the existing infrastructure, it can be easily integrated with a range of armored vehicles, keeping the integration work local for in-house upgrades.



Features	Description/Performance
Thermal Resolution	640 x 480
Pixel Size	17μ
NETD	< 35mK @F/1.0
FPA Material	VOx
Athermal Lens	50mm
FOV	HFOV 12.4mm, VFOV 9.3mm
NATO Target D/R/I	3.4km / 1.2km / 0.7km
Time to Image	< 8 sec
Video Output	PAL/NTSC
Digital Zoom (steps of 0.1)	x1 to x12
Operating Voltage	24-28VDC (MIL-STD-1275)
Power Consumption	< 1.5W
Environmental	MIL-STD-810
Dimensions (H / W / L)	50cm / 37cm / 21cm
Operating Temperature	-40° to +65°
Weight	14Kg