

# TIFCS-GS

## Thermal Imaging Fire Control System - Gunner Sight



TIFCS is an advanced, compact, robust, modular and user-friendly Gunner Sight - a Long-Range Targeting System, optimal for both day and night usage, stationary and on-the-move operation. The Sight is designed for rapid and high-accuracy target engagement, in all combat scenarios. The Sighting System has excellent past performance, is simple to integrate on a myriad of combat vehicles, is easy to maintain, and has a low sustainment footprint.

### Main Advantages & Features

- Unique and modular configuration – add-on system
- Dual-axis stabilized sight
- Advanced 8-12 $\mu$ m Thermal Imager
- High-Resolution Day Color TV Channel
- Long range Eye-safe Laser Rangefinder (ELRF)
- Based on mature technology, comprehensive field tests, including firing and environmental conditions
- All-in-One including Electronics (that provides LOS control, video and data)
- Low SWaP – Compact interface to platform, designed to fit small turrets

# TIFCS-GS

## Applications

- Main Battle Tanks
- Armored Fighting Vehicles
- Tactical Vehicles



## Technical Data

### Sight Motion

#### Line Of Sight (LOS) Span

- Elevation	-10° to +22°
- Azimuth	±5°

#### LOS Stabilization Accuracy

- Elevation	0.1 mRad
- Azimuth	0.1 mRad
- Sight-to-Gun Accuracy	0.2 mils

### Thermal Imager

Detector Type	TDI MCT
Spectral Band	8-12µm
Resolution	288 x 4 elements
Video Format	CCIR / PAL
Fields of View (FOV) (H° x V°)	
- Wide	10.3° x 6° (± 5%)
- Narrow	3° x 2° (± 5%)

### ELRF

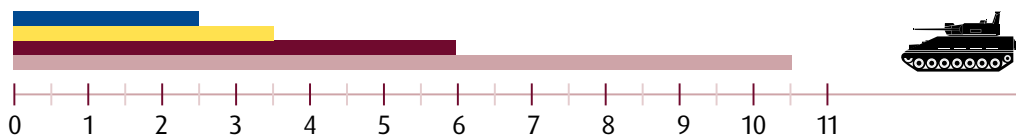
Laser Wavelength	1540 ± 5 nm
Repetition Rate	1 PPS (Pulse Per Second)
Target Discrimination	50 m
Max. Target Range	10,000 m
Range Accuracy	± 5 m
Laser Safety	Class 1 (Eye-safe)

### TV Channel (DVO Optional)

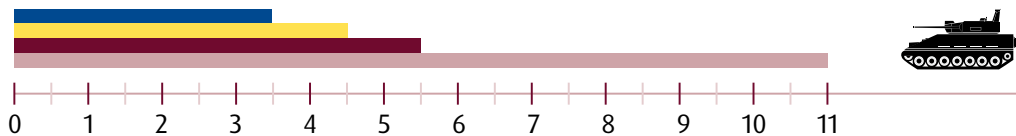
Sensor type	CCD
Spectral Band	650-850 nm, Monochrome
Resolution	1360 x 1024
Video Format	HD-SDI
Fields of View (FOV) (H° x V°)	
- Wide	20° x 11.3° (± 5%)
- Narrow	4.5° x 2.5° (± 5%)
- Very Narrow (E-Zoom)	2.0° x 1.1° (± 5%)
Focus (w/o adjusting focus)	200 - ∞[m]

## DRI Range Performance

### Thermal Channel [km]



### Day (TV) Channel [km]



- Identification
- Recognition
- Detection (WFOV)
- Detection (NFOV)

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