



ADVANCED PHOTONICS
TACTICAL THERMAL
WEAPON SIGHTS

TI-GEAR-S650F

The TI-GEAR-S650F is the professional-grade thermal weapon sight for aiming and engagement on a wide variety of firearms at medium-range distances. Ideal for both small, large-size caliber rifles, machine guns, whether single or repetitive shooting. It is also a great tool for reconnaissance and tactical surveillance.

The latest generation silent and Auto-NUC sensor is at the base of the TI-GEAR-S650F. GSCI proprietary hardware and software solutions are built around the sensor and offer exceptional image quality along with unique tools for added tactical advantage and user safety.

The TI-GEAR-S650F is fully dust- and waterproof, meets and exceeds modern standards. The TI-GEAR-S650F is designed for both professional users and also firearms enthusiasts. It is a robust, reliable tool for long-term, intensive use in any environment, in any lighting or weather conditions.

ADVANTAGES OF TI-GEAR-S650F

Comfortable Eyepiece
with Long Eyerelief

Ergonomic Keypad,
User-Friendly Interface



Multi-Use Picatinny Side
Mounting Bracket

Full-Size Colour
AMOLED Display

Smooth and Precise
Focus Adjustment

All-Aluminum Rugged Housing

High-Performance, Auto-NUC,
Shutterless, Silent FPA

Canadian-Made, ITAR-Free System,
Available for Export

Fast Germanium
Objective Lens

Variety of Rifle Mounts Available



Designed, Developed, Manufactured by GENERAL STARLIGHT COMPANY INC.

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TI-GEAR-S650F

Every TI-GEAR-S650F Sight can be used in 3 main configurations



Hand-Held

Mounting Weapon Mount is not necessary



Standalone Sight



Clip-On (In-Line) Sight

Clip-On Adapter Required, Stand Adapter
Optional Configuration Requirement!



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TI-GEAR-S650F TECHNICAL DATA

Optical Magnification	2X
Objective Lens System	50mm, f/1.0
Field of View	12.4°x9.3°
Focusing Range	1.5m .. Infinity
Diopter Adjustment Range	-6 .. +4
Eyrelief	Min. 50mm
FPA Type	Uncooled, a-Si, Shutterless, Silent, Auto-NUC (Uninterrupted Operation)
FPA Resolution and Pitch	640x480, 17µm
FPA Sensitivity (NETD)	<50mK
FPA Refresh Rate	50Hz
Digital Zoom	1X, 2X, 4X
Internal Display	Full Size: 0.6-Inch Diagonal, AMOLED, Colour, 800x600
Imaging Modes	Monochrome (White-Hot / Black-Hot) and Multiple Colour Palettes
Shot-Initiated FOV Feature (SIF)	Built-In Adjustable Shock Sensor
Digital Passive Stadiametric Rangefinder (SRF)	Yes
Digital Detail Enhancement Feature (DDE)	Yes: 7 Levels
Digital Edge Detection Feature (DED)	Yes
Wide Dynamic Range Feature (WDR)	Yes
Stow Safety Feature (SSF)	Yes
Integrated 9-Axis Absolute Orientation HUD (Heads-Up Display)	Optional: 3-Axis Sensors - Magnetometer, Accelerometer and Gyroscope
Integrated Compass	Yes
Pitch / Roll / Azimuth Indications	Yes
Real-Time Date-Time Stamp	Yes: Simplified, Extended, DTG Formats
Digital Video Recorder with Real-Time Stamp	Optional: Comes with removable 32GB microSD card
Electronic Reticles	8+8 Patterns, Easy Zeroing / Calibration
Detection Capability: Man (1.7x0.5m) / NATO Target (2.3x2.3m)	1660m / 2250m
Hand-Held Configuration	Yes
Conversion to Clip-On (In-Line) Sight	Yes
Tripod-Mountable	Yes
User Profiles (Configurable)	Yes: 8
Automatic/Manual Pixel Masking	Yes
Reset to Factory Defaults	Yes
External Video Feed Protection	Yes
Automatic Power Down Control	User-Configurable: 10 .. 60 minutes of inactivity
Accepted Batteries	2 (two) CR123 of Any Type: Lithium / Rechargeable
Universal Port	Video-Out, Remote Control and External Power (4VDC .. 15VDC)
Battery Life on 2x CR123	Up to 7 Hours
Environmental Protection	Fully Waterproof
Dimensions	172 x 60 x 60 mm
Weight	475 grams
Operating Temperature	-40°C .. +50°C
Warranty	7 Years, Limited
Export	Available Worldwide (Canadian Export Permit Required. GSCI provides assistance in obtaining the Permit)

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STANDARD EQUIPMENT

1	Thermal Sight
2	Long Eyelief Rubber Eyecup (<i>Installed on the device</i>)
3	Protective Lens Cover (<i>Installed on the device</i>)
4	USB Power Cable (<i>5-pin to USB</i>)
5	Video-Out Cable (<i>5-pin to RCA</i>)
6	Demist Shield
7	Low Profile Firearm Mount: Standard ARMS or Adjustable DLM
8	CR123 Battery (2pcs)
9	Soft Carrying Pouch
10	User Manual
11	7-Year Warranty with Activation Form
12	Quick Reference Card
13	Waterproof Hard Carrying Case

OPTIONAL EQUIPMENT

A	Built-In Video Recorder (comes with 32GB microSD card and SD adapter)
B	External Video Recorder (comes with 32GB SD card, set of connection cables)
C	Remote Control Unit (comes with 5-pin to 5-pin cable)
D	Tactical Display Unit HMD-800 Series
E	MAK Firearm Mount with Adapter: MAK Picatinny or MAK Blaser
F	Recoil Absorbing System RMS-50
G	Scope Clamp Adapter
H	Multi-Voltage Battery Pack MVP-240
I	Interchangeable Clip-On Adapter with Shroud

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