



ADVANCED PHOTONICS

PRECISION THERMAL
RIFLE SCOPE

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.

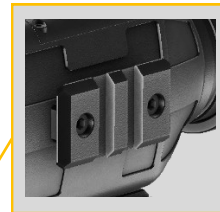
The latest generation silent and Auto-NUC sensor is at the base of the TI-GEAR-S650F. GSCI proprietary hardware and software solutions are built around the sensor and offer exceptional image quality along with unique tools for added tactical advantage and user safety.

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

Fast Germanium Objective Lens

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

Canadian-Made, ITAR-Free System

Variety of Rifle Mounts Available



Designed, Developed, Manufactured by GSCI Advanced Photonics

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DISCLAIMER. Technical description, certain optical-electronic-mechanical features of the product shown herein and/or some of its parts/components may not precisely represent the actual device and are subject to change without prior notice by the sole discretion of General Starlight Co., Inc. Mass of the product represents measurable weight of all components this product consists of, such as optics, mechanics, and electronics. Dimensions of the product represents measurable size of the body, including all optical components attached and in fully folded position. Dimensions of additions such as mounting brackets, eyecups, objective lens covers, and/or battery extensions may vary and therefore are not listed herein. Copyright © 1992-2023 General Starlight Co., Inc. Canada. All rights reserved.



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



Hand-Held

Removing Weapon Mount is not necessary



Standalone Sight



Clip-On (In-Line) Sight

*Clip-On Adapter Required, Scope Adapter
Optional (Configuration-Dependent)*



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TI-GEAR-S650F TECHNICAL DATA

Optical Magnification	2X
Objective Lens System	50mm
Field of View	12.4°x9.3°
Focusing Range	1.5m .. Infinity
Diopter Adjustment Range	-6 .. +4
Eyepiece	Min. 50mm
FPA Type	Uncooled, a-Si, Shutterless, Silent, Auto-NUC (Uninterrupted Operation)
FPA Resolution and Pitch	640x480, 17µm
FPA Sensitivity (NETD)	<40mK
FPA Refresh Rate	50Hz
Digital Zoom	1X, 2X, 4X, 8X
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
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	Optional
Pitch / Roll / Azimuth Indications	Optional
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
Made In Canada	ITAR-Free

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STANDARD EQUIPMENT: WHAT'S IN THE BOX

1	Thermal Imaging Sight
2	Long Eyereief Rubber Eyecup (Attached)
3	Front Lens Protective Cover (Attached)
4	Dual Lever Adjustable Rifle Mount DLM (Picatinny, with fine-tune knobs for tolerance adjustments)
5	Demist Shield
6	USB Power Cable
7	Video-Out Cable
8	Soft Carrying Pouch
9	User Manual
10	Quick Reference Card
11	7-Year Warranty with Activation Form
12	Waterproof Hard Carrying Case
13	Cleaning Kit (3-in-1 Multi-Pen + Cleaning Cloth)

* Batteries not included

OPTIONAL EQUIPMENT

A	Universal Remote Control Unit TRC-120 (Comes with connection cable)
B	Universal Multi-Voltage Battery Pack MVP-240 (Comes with connection cable)
C	Built-In Digital Video Recorder GS-DVR-INT (Comes with 32GB microSD card and SD adapter)
D	External Digital Video Recorder GS-EDVR (Comes with set of cables and 32GB SD card)
E	MTAR™-HUD Heads Up Display (streams video directly from the unit; equipped with built-in DVR, GPS and Integrated 9-Axis Absolute Orientation HUD)
F	Portable Head-Mounted Display HMD-800-MOD (streams thermal video directly from the device, comes with connection cable)
G	Integrated 9-Axis Absolute Orientation HUD (Heads-Up Display), 3-Axis Sensors for Compass Reading, Inclinator/Pitch Reading, and Level/Roll Reading
H	Heavy-Duty Quick Release Rifle Mount MAK-QR-BLASER (Blaser, Adapter included)
I	Heavy-Duty Quick Release Rifle Mount MAK-QR-PICATINNY (PICATINNY, Adapter included)
J	Heavy-Duty Rifle Mount MAK-PICATINNY (PICATINNY, Adapter included, Allen Key Included)
K	Adapter for MAK Mount: Regular Length (ADAPTER-REG) or Extended Length (ADAPTER-EXT)
L	Clip-On Adapter COA
M	Day Scope Adapter Clamp for COA for direct mounting onto daytime optics, CO-DSA (various sizes available)