



ADVANCED PHOTONICS
MULTI-PURPOSE THERMAL
MONOCULAR SYSTEMS

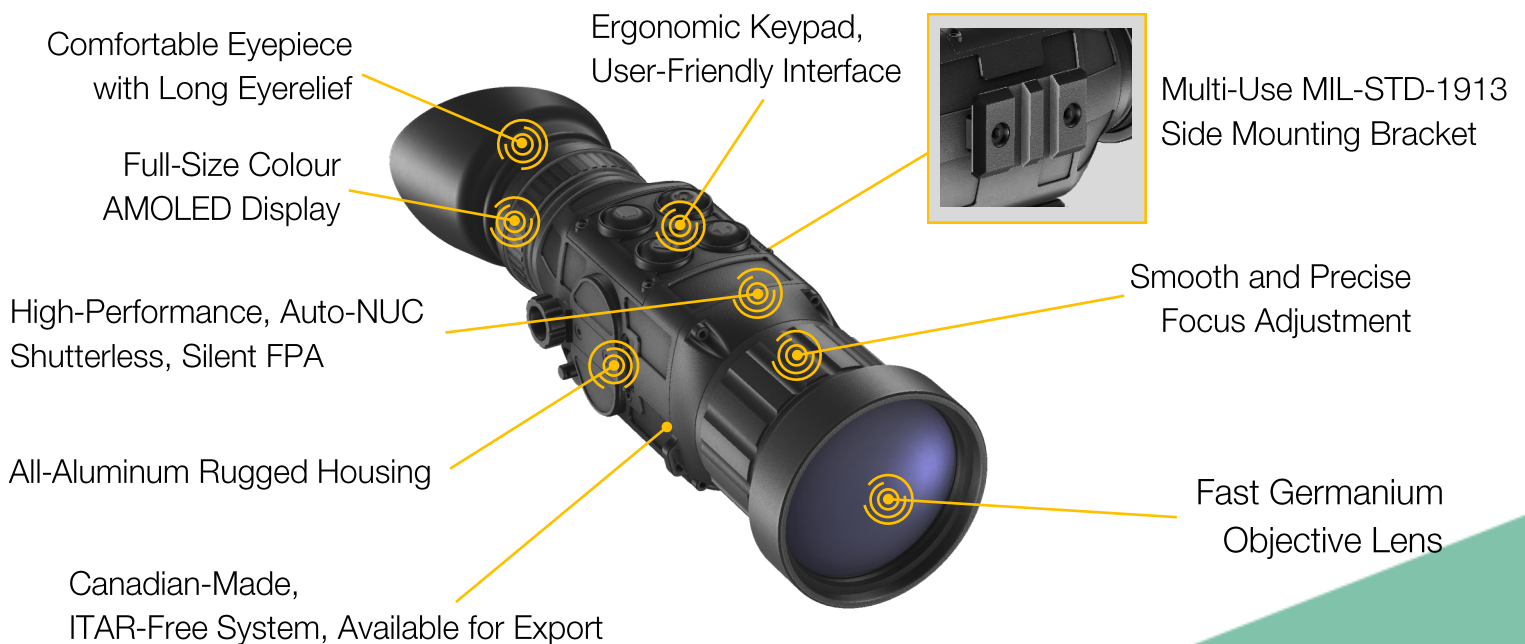
TI-GEAR-M650F

The TI-GEAR-M650F is the professional-grade thermal monocular designed for multiple applications that involve reconnaissance and tactical surveillance at medium-range distances.

The latest generation silent and Auto-NUC sensor is at the base of the TI-GEAR-M650F. 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.

Apart from hand-held, helmet-mounted configurations, the TI-GEAR-M650F can easily be converted into a full-feature thermal weapon and clip-on sight. The TI-GEAR-M650F is fully dust- and waterproof, meets and exceeds modern MIL standards. The TI-GEAR-M650F is designed for both professional users and outdoor 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-M650F



Designed, Developed, Manufactured by GENERAL STARLIGHT COMPANY INC.
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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 Company, Inc. Mass of the product represents measurable weight of all components this product consists of, such as optics, mechanics and electronics. Weight of Image Intensifier tubes may vary depending on the type and make of Image Intensifier tube being used and therefore is listed separately. 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 © 1992-2020 General Starlight Co., Inc. Canada. All rights reserved.



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TI-GEAR-M650F

Every TI-GEAR-M650F Monocular can be used in 3 main configurations



Hand-Held

No Additional Equipment Required



Standalone Sight

Weapon Mount Required



Clip-On (In-Line) Sight

Clip-On Adapter and Weapon Mount / Scope Adapter Required



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TI-GEAR-M650F 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
Eyereief	Min. 40mm
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)	Optional: 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)	Yes: 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	Yes. Comes with removable 32GB microSD card
Electronic Reticles	Optional: 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
Conversion to Standalone (Direct-View) 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
MIL-STD-810G Compliant	Yes
Environmental Protection	Min. IP67, Nitrogen-Purged Housing
Dimensions and Weight	172 x 60 x 60 mm , 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: WHAT'S IN THE BOX



TI-GEAR-M650F
Comes with rubber eyecup and lens cover



Video-Out Cable



USB Power Cable



Soft Pouch



32GB microSD Card
 and SD Adapter



Hard Case



User's Manual



Quick Reference Card



Warranty Form

OPTIONAL EQUIPMENT



Low Profile Quick Release Dual-Lever Adjustable Rifle Mount (adapter available)



MAK Rifle Mount: Available in Picatinny and Blaser variants (comes with an adapter)



External Video Recorder with SD Card



Clip-On Adapter



Remote Control



Portable Head-Mounted Display HMD-800 (streams thermal video directly from the device)



Day Scope Clamp Adapter for On-Scope Configurations



Recoil Mitigation System RMS-50 (Rifle Applications Only)