



**ADVANCED PHOTONICS**  
MULTI-PURPOSE THERMAL  
MONOCULAR

# TI-GEAR-M6100

The TI-GEAR-M6100 is the professional-grade thermal monocular designed for multiple applications that involve reconnaissance and tactical surveillance at long-range distances.

The latest generation silent and Auto-NUC sensor is at the base of the TI-GEAR-M6100. 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-M6100 can easily be converted into a full-feature thermal weapon and clip-on sight. The TI-GEAR-M6100 is fully dust- and waterproof, meets and exceeds modern standards. The TI-GEAR-M6100 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-M6100

Comfortable Eyepiece  
with Long Eyerelief

Full-Size Colour  
AMOLED Display

High-Performance, Auto-NUC  
Shutterless, Silent FPA

All-Aluminum Rugged Housing

Canadian-Made, ITAR-Free System

Ergonomic Keypad,  
User-Friendly Interface



Multi-Use MIL-STD-1913  
Side Mounting Bracket

Smooth and Precise  
Focus Adjustment

Fast Germanium  
Objective Lens



**Designed, Developed, Manufactured by GSCI Advanced Photonics**

120 WHITMORE ROAD, UNIT 20, WOODBRIDGE, ONTARIO, L4L6A5, CANADA

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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 © 1992-2022 General Starlight Co., Inc. Canada. All rights reserved.



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Every TI-GEAR-M6100 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  
Required*



**ADVANCED PHOTONICS**

# MULTI-PURPOSE THERMAL MONOCULAR TI-GEAR-M6100



TI-GEAR-M6100 TECHNICAL DATA

|   |   |
|---|---|
| Optical Magnification   | 4X  |
| Objective Lens System   | 100mm   |
| Field of View   | 6.2°x4.7°   |
| Focusing Range  | 4m .. Infinity  |
| Diopter Adjustment Range                                      | -6 .. +4  |
| Eyere relief  | 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, 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)                              | Optional: 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 Reticules  | Optional: 8+8 Patterns, Easy Zeroing / Calibration                      |
| Detection Capability: Man (1.7x0.5m) / NATO Target (2.3x2.3m) | 3330m / 4500m   |
| Hand-Held Configuration                                       | Yes   |
| Conversion to Clip-On (In-Line) Sight                         | Yes   |
| Tripod-Mountable Configuration                                | 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                                      | Min. IP67, Nitrogen-Purged Housing                                      |
| Dimensions  | 230 x 85 x 85mm   |
| Weight  | 750 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 Monocular                        |
| 2  | Rubber Eyecup (Attached)                         |
| 3  | Front Lens Protective Cover (Attached)           |
| 4  | USB Power Cable                                  |
| 5  | Video-Out Cable                                  |
| 6  | Soft Carrying Pouch                              |
| 7  | User Manual                                      |
| 8  | Quick Reference Card                             |
| 9  | 7-Year Warranty with Activation Form             |
| 10 | Waterproof Hard Carrying Case                    |
| 11 | 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 | Portable Head-Mounted Display HMD-800-MOD (streams thermal video directly from the device, comes with connection cable)                               |
| F | Integrated 9-Axis Absolute Orientation HUD (Heads-Up Display), 3-Axis Sensors for Compass Reading, Inclinometer/Pitch Reading, and Level/Roll Reading |
| G | Heavy-Duty Quick Release Rifle Mount MAK-QR-BLASER (Blaser, Adapter included)   |
| H | Heavy-Duty Quick Release Rifle Mount MAK-QR-PICATINNY (PICATINNY, Adapter included)   |
| I | Heavy-Duty Rifle Mount MAK-PICATINNY (PICATINNY, Adapter included, Allen Key Included)  |
| J | Adapter for MAK Mount: Regular Length (ADAPTER-REG) or Extended Length (ADAPTER-EXT)  |
| K | Clip-On Adapter COA   |
| L | Long Eyelief Rubber Eyecup GSCI-EYECUP-LR   |