



ADVANCED PHOTONICS

THERMAL IMAGING  
OBSERVATION MONOCULAR

# TI-GEAR-M6100

The TI-GEAR-M6100 is the professional-grade thermal monocular designed for multiple applications that involve reconnaissance and 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 advantage and user safety.

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  
Side Mounting Bracket

Smooth and Precise  
Focus Adjustment

Fast Germanium  
Objective Lens



**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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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)	<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
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
Detection Capability: Man (1.7x0.5m) / Vehicle (2.3x2.3m)	3330m / 4500m
Hand-Held Configuration	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 <b>TRC-120</b> (Comes with connection cable)
B	Universal Multi-Voltage Battery Pack <b>MVP-240</b> (Comes with connection cable)
C	Built-In Digital Video Recorder <b>GS-DVR-INT</b> (Comes with 32GB microSD card and SD adapter)
D	External Digital Video Recorder <b>GS-EDVR</b> (Comes with set of cables and 32GB SD card)
E	<b>MTAR™-HUD</b> 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 <b>HMD-800-MOD</b> (streams thermal video directly from the device)
G	Integrated <b>9-Axis Absolute Orientation HUD</b> (Heads-Up Display), 3-Axis Sensors for Compass Reading, Inclinometer/ Pitch Reading, and Level/Roll Reading