ADVANCED PHOTONICS

SUPREME-GRADE THERMAL SCOPE
TWS-6075-MOD

The TWS name has been long known for the most robust, reliable and technologically-advanced thermal weapon sights available on the professional market. Evolution never stops and time has come to introduce the latest incarnation of this truly legendary system: the TWS-6000-MOD Series, the most technologically-advanced professional thermal sights yet.

The latest generation silent and Auto-NUC sensor is at the base of the TWS-6075-MOD. 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 TWS-6075-MOD is fully dust- and waterproof, meets and exceeds modern standards. It is a perfect tool for long-term, intensive use in any environment, in any lighting or weather conditions.

HIGH PERFORMANCE CORE

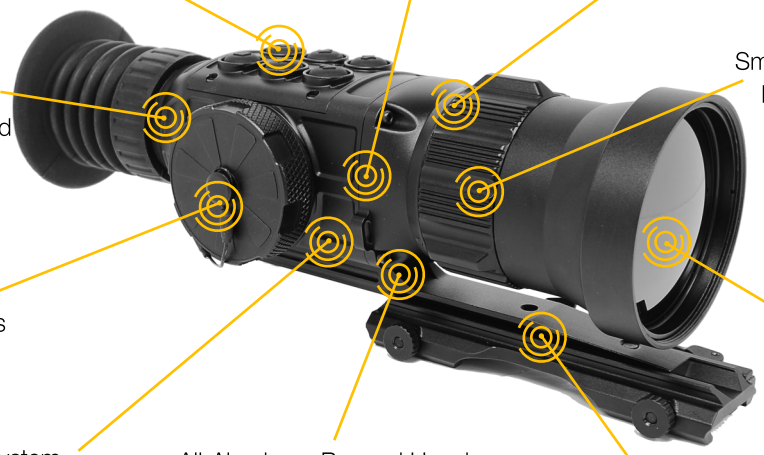
Shutterless FPA with Auto-NUC technology guarantees a silent, reliable, and most importantly uninterrupted operation of the device.

All TWS models are equipped with 640x480 cores 17 microns and 50 Hz refresh rate.

PERFORMANCE CAPABILITIES: Human (1.7x0.5m)	
Detection: Human (1.7x0.5m)	2500m
Recognition: Human (1.7x0.5m)	935m
Identification: Human (1.7x0.5m)	500m

PERFORMANCE CAPABILITIES: Vehicle (2.3x2.3m)	
Detection: NATO Target (2.3x2.3m)	3382m
Recognition: NATO Target (2.3x2.3m)	1268m
Identification: NATO Target (2.3x2.3m)	675m

ADVANTAGES OF TWS-6075-MOD



Ergonomic Full-Size Keypad, User-Friendly Interface

High-Performance, Auto-NUC, Shutterless, Silent FPA, <40mK

Built-In GPS Module (Optional)

Distortion-Free, Comfortable, Long Eye-Relief Eyepiece And A Full-Size Color AMOLED Display For Precise Aiming And Shooting.

Smooth And Precise Focus Adjustment

Multi-Use Picatinny Side Mounting Bracket Can Be Replaced With The GPS Module

Battery Compartment with "Quick Swap" Battery Holders Up To 13 Hours Battery Life

Fast Germanium Glass Objective Lens

Canadian-Made, Non-ITAR System

All-Aluminum Rugged Housing

Variety Of Rifle Mounts Available

7 YEARS WARRANTY · ISO 9001:2015 · 31 YEARS OF SUCCESS · MADE IN CANADA / FABRIQUÉ AU CANADA

Designed, Developed, Manufactured by GSCI Advanced Photonics
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TECHNICAL SPECIFICATIONS

MAIN OPTICAL PARAMETERS	
Optical Magnification	3X
Objective Lens System	75mm
Field of View	8.3°x6.2°
Focusing Range	3m .. Infinity
Diopter Adjustment Range	-6 .. +4
Eye relief	Min. 50mm

THERMAL SENSOR & ELECTRONICS	
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

ENHANCED VISION & TACTICAL FEATURES	
Digital Passive Stadiametric Rangefinder (SRF)	Yes
Digital Detail Enhancement Feature (DDE)	Yes
Wide Dynamic Range Feature (WDR)	Yes
Stow Safety Feature (SSF)	Yes
Shot-Initiated FOV Feature (SIF)	Built-In Adjustable Shock Sensor
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
Digital Video Recorder with Real-Time Stamp	Yes
GPS Module	Optional

USER CONVENIENCE FEATURES	
User Profiles (Configurable)	Yes: 8
Electronic Reticles	8+8 Patterns with Easy Zeroing and Calibration
Dynamic Reticle Polarity Switch	Yes
Real-Time Date-Time Stamp	Yes: Simplified, Extended, DTG Formats
Automatic/Manual Pixel Masking	Yes
Automatic Power Down Control	User-Configurable: 10 .. 60 minutes of inactivity

POWERING OPTIONS & CONSUMPTION	
Accepted Batteries	4 (Four) AA Alkaline / Lithium / Rechargeable
Universal Port	Video-Out, Remote Control and External Power (4VDC .. 15VDC)
Battery Life on 4x AA Lithium	Up to 13 Hours

MECHANICAL & ENVIRONMENTAL PARAMETERS	
Dimensions	202x75x67mm
Weight	590 grams
Environmental Protection	Fully Waterproof, IP67, Nitrogen-Purged
Operating Temperature	-40°C .. +50°C

WARRANTY & EXPORT INFORMATION	
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 Eye Relief Rubber Eyecup
3	Front Lens Protective Cover
4	Rifle Mount: Heavy-Duty MAK-PICATINNY
5	Built-In Digital Video Recorder GS-DVR-INT (Comes with 32GB microSD card and SD adapter)
6	Integrated 9-Axis Absolute Orientation HUD (Heads-Up Display), 3-Axis Sensors for Compass Reading, Inclinometer/Pitch Reading, and Level/Roll Reading
7	Demist Shield
8	USB Power Cable
9	Video-Out Cable
10	Soft Carrying Pouch
11	User Manual
12	Quick Reference Card
13	7-Year Warranty with Activation Form
14	Waterproof Hard Carrying Case
15	Cleaning Kit (3-in-1 Multi-Pen + Cleaning Cloth)

OPTIONAL ACCESSORIES

Advanced Multi-Functional Laser Rangefinder Unit QRF-4500. The new advanced LRF unit is the all-in-one laser rangefinder system with increased capabilities featuring built-in GPS module, compass, laser pointer and add-on IR illuminator. It is the indispensable tool with multiple capabilities used for reconnaissance, tactical surveillance, and other scenarios. Its operational capabilities and functionality by far exceed similar systems on the market. The rangefinding module operates at Mil-Standard 1550nm wavelength. Device's compact size allows obstruction free access to controls of the main unit to which the LRF is attached: be it a firearm or an electro-optical system.

Universal Battery Pack MVP-240. The MVP-240 is the only high capacity battery pack on the market with 3 power outputs – 3V, 5V and 12V. This battery pack runs off 8 standard, easy-to-find AA batteries with quick swap cartridges. The MVP-240 doubles the operational time.

It can be conveniently mounted on the side of the TWS.

HMD-800-MOD is the modernized ultra-portable display unit that streams thermal video directly from the TWS-6075-MOD. HMD-800-MOD helps you observe the surroundings without exposing yourself. It can also be used with a remote control so a user can have control over the system from distance.

Wired Remote Control TRC-120. Lightweight and ergonomic, the TRC-120 is instantly paired to the TWS-6050-MOD as soon as you connect both with the cable. With identical, "no-confusion" connectors and cables you can control your device, feed its video signal to an external display or supply power from an external power source.