



ADVANCED PHOTONICS

ULTRA-LONG RANGE THERMAL IMAGING MONOCULAR TLR-7150M

TLR-7150M is the professional thermal early detection system for reconnaissance and tactical surveillance on long and ultra-long distances.

The latest generation silent and Auto-NUC sensor is at the base of the TLR-7150M. GSCI proprietary hardware and software solutions are built around the sensor and offer unique tools for added tactical advantage and user safety. On top of that TLR-7150M has a top-quality, fast 150mm objective lens with the largest aperture to achieve maximum detection capabilities.

TLR-7150M can be comfortably operated for prolonged viewing periods without eye strain.

TLR-7150M is fully dust- and waterproof system specifically designed for professional applications and long-term, intensive use in any environment, in any lighting or weather conditions.

ADVANTAGES OF TLR-7150M

*AMOLED Colour Display System
with High Resolution*

*Universal Port: External
Power, Remote Control
and Video Output*

Class-Leading Battery Life

*Rugged Enclosure: Aircraft-
Grade Hard-Anodized Aluminum*

*Latest Generation Thermal Sensor and
Proprietary Image-Enhancing Features*

*Ergonomic Keypad
with Tactile Feedback*

*Smooth and Precise
Focus Adjustment*

*TLR-7150M is the Canadian-
Made, non-ITAR System, Available
for Export*

*150mm f/1.0 Fast
Germanium Objective Lens*



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Optical Magnification	6X
Objective Lens	150mm, f/1.0
Field of View	4.1°x3.1°
Focusing Range	5m .. Infinity
FPA Resolution and Pitch	640x480, 17µm
FPA Type	Uncooled, a-Si, Shutterless, Completely Silent, Auto-NUC (Uninterrupted Operation)
FPA Sensitivity	< 50mK
FPA Refresh Rate	50Hz
Digital Zoom	2X, 4X
Display System	Full size: 0.6-Inch, Dual-AMOLED, Colour, 800x600
Imaging Modes	Monochrome + 8 Colour Palettes
Stadiametric Rangefinder	Yes
Wide Dynamic Range (WDR)	Yes
Digital Detail Enhancement (DDE)	Yes: 8 Levels
Stow Safety Feature (SSF)	Yes
Digital Video Recorder	Built-In with removable microSD Card
Date-Time Stamp	Yes: Simplified, Extended, DTG Formats
User Profiles	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
Detection Man (1.7x0.5m)	Up to 5000m
Detection Vehicle (2.3x2.3m)	Up to 6700m
Accepted Batteries	4pcs AA, any kind: Lithium, Rechargeable, Alkaline, etc.
External Power Sources	4VDC .. 15VDC
Battery Life	Up to 10 Hours
Tripod-Mountable	Yes
Environmental Protection	Waterproof, Nitrogen-Purged Housing
Dimensions and Weight	385x170x170mm , 3.25kg
Operating Temperature	-40°C .. +50°C
Warranty	7 Years, Limited
Export	Available Worldwide (Canadian Export Permit Required)

OTHER BENEFITS

TLR-7150M is equipped with an uncooled high-performance detector. The advantages of TLR-7150M over a cooled device are: much lower power consumption, compact size, small weight, and performance figures that are on par or exceed those of bulky cooled systems currently available on the market.

TLR-7150M is maintenance-free. Operating cooled thermal systems involves hidden costs: coolers require regular and expensive servicing that costs up to 10% of the price of the cooled system per year. Being based on an uncooled detector, TLR-7150M does not carry any additional costs associated with its maintenance and needs no servicing.

TLR-7150M is silent and undetectable. In addition to consuming more power, cooled thermal systems emit into the atmosphere a significant amount of thermal radiation, which can be detected by other thermal systems. This immediately reveals the exact location of the cooled unit and with it, of course, the entire crew. TLR-7150M does not have this drawback: generating 20 times less heat it is protected from unwanted detection.

TLR-7150M is mobile and autonomous. TLR-7150M weighs considerably less than cooled systems and thanks to low power consumption, its ability to operate on batteries or external sources is vital in emergency situations like power outages.

TLR-7150M is considerably more affordable. There are no compromises on quality, performance and reliability in TLR-7150M. And yet it is available at a fraction of cost of a standard cooled thermal imaging system.



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STANDARD EQUIPMENT: WHAT'S IN THE BOX



TLR-7150M Unit



Remote Control
with set of cables



USB Power Cable



Video-Out Cable



Quick-Swap
Battery Holders



32GB microSD Card
with SD Adapter



Soft Carrying Pouch



Hard Carrying Case
(Waterproof)



User Manual



Warranty Form

OPTIONAL EQUIPMENT



HMD-800-MOD: Advanced Portable Display Unit.
Streams video image directly from the TLR-7100B. Own
(independent) power supply: CR123 battery). Colour
AMOLED Display, 800x600. Display rotation adjustment:
-45° .. +45°. Can be mounted on helmet with a helmet
mount and a j-arm for hands-free operation.

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