



TLR-7150B

Ultra-Long Range Thermal Imaging System



KEY FEATURES

- ▶ Objective Lens: 150mm f/1.0
- ▶ FPA: 640x480, 30Hz
- ▶ Battery life: up to 8 hours
- ▶ Integrated Stadiametric Rangefinder
- ▶ Vehicle Detection Range: 14,500m
- ▶ 7-Year Warranty
- ▶ Made in Canada. ITAR-free

OVERVIEW

The TLR-7150B is the world's first and only uncooled thermal imaging system with ultra-long range detection capability. The TLR-7150B is the top-of-the-line ultra-long range observation system from GSCI. Following the Company's philosophy to deliver only the best products to the market, GSCI Team designed, developed and now presents this new product as a flagship model along with TLR-7150M.

TLR-7150B is equipped with 640x480 FPA seamlessly paired to 150mm f/1.0 objective lens. Thanks to GSCI proprietary image-enhancing solutions, the device delivers strikingly crisp and dynamic video image. TLR-7150B's staggering performance figures are unreachable for the competition.

TLR-7150B is a Bi-Ocular thermal imaging system with immersive observational experience. Its water- and dustproof protection make it a truly all-weather ultra-long range detection device.

Developed and manufactured by
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TLR-7150B ADVANTAGES

- **TLR-7150B is equipped with an uncooled high-performance detector.** The advantages of TLR-7150B 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 professional market.
- **TLR-7150B 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-7150B is deprived of this drawback: generating 20 times less heat it is almost 100% protected from an unwanted detection.
- **TLR-7150B 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-7150B does not carry any additional costs associated with its maintenance and needs no servicing.

TLR-7150B ADVANTAGES

- **TLR-7150B is armed with low-F-number, “Fast” Germanium objective lens.** Overall system sensitivity is a combination of FPA sensitivity and objective lens F-number. It is a critical parameter for all long-range observation systems. In many cooled systems manufacturers go for high f-numbers to compensate for significant cost of cooled sensors. For example, pairing a 25mK-sensitive cooled FPA to a “slow” f/4.0 objective lens results in an unimpressive overall system sensitivity of $25\text{mK} \times 4 = 100\text{mK}$. TLR-7150B achieves overall sensitivity of 60mK with no excessive power consumption and retaining compact size and weight.
- **TLR-7150B is mobile and autonomous.** TLR-7150B weighs considerably less than cooled systems and thanks to low power consumption, its ability to operate on batteries is vital in emergency situations like power outages.
- **TLR-7150B is considerably more affordable.** There are no compromises on quality, performance and reliability in TLR-7150B. And yet it is available at a fraction of cost of a standard cooled thermal imaging system.



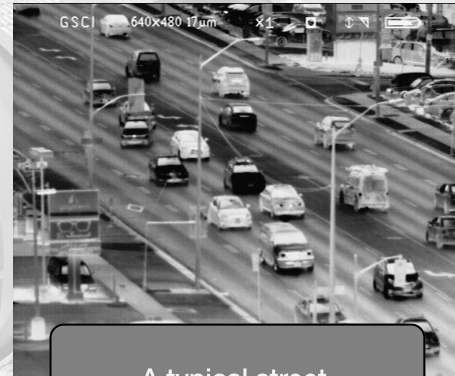
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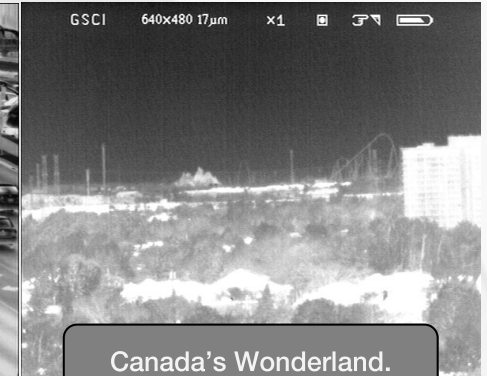
TLR-7150B DISTINCTIVE FEATURES

- High-Performance Uncooled FPA: 640x480, 30Hz
- Quality and “Fast” Low-F-Number Germanium Lenses
- Low Power Consumption
- Bi-Ocular System for Immersive Observational Experience
- Completely Silent System Operation
- Mobile and Autonomous
- Unauthorized Location Protection: Lowest Heat Dissipation
- Video-out for External Display and Recording
- High-Resolution Micro-OLED Display 800x600
- Auto-Off Feature
- Integrated Stadiametric Rangefinder
- 24-hour Operation
- Vehicle Detection Range of 14,500 metres
- Manual and Automatic FPA Sensitivity Adjustment
- Manual Display Brightness Adjustment
- Black Hot / White Hot Polarity Control
- External Battery Pack Compatibility
- Optional Remote Control
- GSCI Proprietary Image-Enhancing Solutions (IES™)
- Dust- and Waterproof Protection
- Available for Worldwide Export
- 7-Year Manufacturer’s Warranty
- Made in Canada

TLR-7150B REAL-LIFE PERFORMANCE



A typical street.
Distance: 1,140m



Canada’s Wonderland.
Distance to rollercoaster:
22,800 m



Residential buildings.
Distance: 2,480m



Pedestrian crossing.
Distance: 1,090 m



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DETECTION RANGES



16,500 m



7,200 m

TLR-7150B Technical Data

Objective Lens Focal Length	150mm
Objective Lens F-number	f/1.0
FPA Resolution	640x480 pixels, 17 μ m pitch
FPA Sensitivity	60mK
FPA Refresh Rate	30Hz
Magnification Optical	6X
Magnification Digital	2X, 4X
Maximum Total Magnification	24X
Diopter Adjustment	-6 .. +2
Power Source	2pcs Standard AA Batteries
Accepted Battery Types	Lithium
Battery life	Up to 8 hours continuously
Dimensions	373x165x170mm (14.7x6.5x6.7in)
Mass	3.24kg (7.14lbs)
Warranty	7 Years, Limited

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