



ADVANCED PHOTONICS

LONG-RANGE TACTICAL  
THERMAL BINOCULARS

# UNITEC-B50-64



The UNITEC-B50-64 is a thermal binocular system designed for multiple applications that involve reconnaissance and tactical surveillance at medium- and long-range distances.

The latest generation silent and Auto-NUC sensor is at the base of the UNITEC-B50-64. 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 UNITEC-B50-64 has dual-AMOLED display system that designates one hi-res AMOLED display for each individual eyepiece and has no moving parts inside. UNITEC-B50-64 can be comfortably operated for prolonged viewing periods without eye strain. With full-aluminum enclosure, the UNITEC-B50-64 is all-around professional thermal imaging solution for day- and night-time operations that demand long-range observation capabilities.

## ADVANTAGES OF UNITEC-B50-64

Two Full-Size Colour 800x600 AMOLED Displays

Full-Size Ergonomic Keypad with Tactile Feedback

Up to 8 Hours Battery Life

All-Aluminum Rugged Housing

High-Performance, Auto-NUC Shutterless, Silent FPA

Smooth and Precise Focus Adjustment

Fast Germanium Objective Lens

### KEY FEATURES

- ◆ Fast 50mm Objective Lens
- ◆ Auto-NUC FPA: 640x480
- ◆ Optional Built-In Video Recorder
- ◆ Up to 8 Hours Battery Life
- ◆ ITAR-Free System

### MAIN APPLICATIONS

- ◆ Perimeter Security
- ◆ Law Enforcement
- ◆ Wildlife Observation
- ◆ Border Patrol
- ◆ Tactical Surveillance



Designed, Developed, Manufactured by GSCI Advanced Photonics

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

WWW.GSCI.NET | GSCI@GSCI.NET | +1.905.850.0990

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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Optical Magnification	2X
Objective Lens System	50mm
Field of View	12.4°x9.3°
Focusing Range	1m .. Infinity
Eyere relief	Min. 20mm
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: 0.5-Inch Diagonal, Dual-AMOLED, Colour, 800x600
Imaging Modes	Monochrome (White-Hot / Black-Hot) and 8 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) / NATO Target (2.3x2.3m)	1160m / 2250m
Hand-Held Capability	Yes
Tripod-Mountable	Yes
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 *	4 (four) AA of Any Type: Lithium / Rechargeable
Universal Port	Video-Out, Remote Control and External Power (4VDC .. 15VDC)
Battery Life on 4x AA	Up to 8 Hours
Environmental Protection	Min. IP67, Nitrogen-Purged Housing
Dimensions	161x142x71mm
Weight	825 grams
Operating Temperature	-40°C .. +50°C
Warranty	7 Years, Limited
Made In Canada	ITAR-Free

\* Batteries not included

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## STANDARD EQUIPMENT: WHAT'S IN THE BOX

1	Thermal Binoculars
2	Rubber Eyecups ( <i>Installed on the device</i> ) + Spares
3	Protective Lens Cover ( <i>Installed on the device</i> )
4	USB Power Cable ( <i>5-pin to USB</i> )
5	Video-Out Cable ( <i>5-pin to RCA</i> )
6	Quick Swap Battery Containers (AA)
7	Neck Cord
8	Soft Carrying Pouch
9	User Manual
10	7-Year Warranty with Activation Form
11	Waterproof Hard Carrying Case
12	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, Inclinator/Pitch Reading, and Level/Roll Reading