



ADVANCED PHOTONICS

ULTRA LONG-RANGE TACTICAL THERMAL BINOCULARS

UNITEC-B100-64



The UNITEC-B100-64 is a thermal binocular system designed for multiple applications that involve reconnaissance and tactical surveillance at long-range distances.

The latest generation silent and Auto-NUC sensor is at the base of the UNITEC-B100-64. 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-B100-64 has dual-AMOLED display system that designates one hi-res AMOLED display for each individual eyepiece and has no moving parts inside. UNITEC-B100-64 can be comfortably operated for prolonged viewing periods without eye strain. With full-aluminum enclosure, the UNITEC-B100-64 is all-around professional thermal imaging solution for day- and night-time operations that demand long-range observation capabilities.

ADVANTAGES OF UNITEC-B100-64

All-Aluminum Rugged Housing

High-Performance, Auto-NUC
Shutterless, Silent FPA

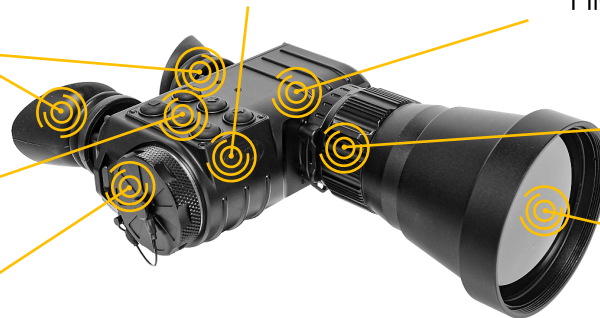
Two Full-Size Colour 800x600
AMOLED Displays

Full-Size Ergonomic Keypad
with Tactile Feedback

Smooth and Precise
Focus Adjustment

Up to 8 Hours Battery Life

Fast Germanium
Objective Lens



KEY FEATURES

- ◆ Fast 100mm 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



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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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Optical Magnification	4X
Objective Lens System	100mm
Field of View	6.2°x4.7°
Focusing Range	3m .. 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)	<40mK
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)	3330m / 4500m
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	218x149x86mm
Weight	925 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>)
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	4-AA Quick-Swap Battery Cartridges (4pcs)
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	MTAR™-HUD Heads Up Display (streams video directly from the unit; equipped with built-in DVR, GPS)
F	Portable Head-Mounted Display HMD-800-MOD (streams thermal video directly from the device, comes with connection cable)
G	Integrated 9-Axis Absolute Orientation HUD (Heads-Up Display), 3-Axis Sensors for Compass Reading, Inclinometer/Pitch Reading, and Level/Roll Reading