



UNITEC-B



Long-Range Thermal Imaging Binoculars



KEY FEATURES

- ▶ Objective Lenses: 50, 75 and 100mm
- ▶ FPA: 384x288 or 640x480
- ▶ Refresh Rate: 50Hz
- ▶ Battery life: up to 8 hours
- ▶ Optional Digital Video Recorder
- ▶ Integrated Stadiametric Rangefinder
- ▶ Vehicle Detection Range: up to 4500m
- ▶ 7-Year Warranty
- ▶ Made in Canada. ITAR-free

OVERVIEW

UNITEC-B is a family of commercially-available thermal binocular systems equipped with uncooled, shutterless thermal engines and a choice of 50, 75 or 100mm Germanium objective lenses.

UNITEC-B has dual-OLED display system that designates one hi-res OLED display for each individual eyepiece and has no moving parts inside. UNITEC-B can be comfortably operated for prolonged viewing periods without eye strain.

With fully aluminum enclosure, UNITEC-B is all-around professional thermal imaging solution for day- and night-time operations that demand long-range observation capabilities.

DETECTION RANGES



Up to 4500 m



Up to 3000 m

Designed, developed and manufactured by
GENERAL STARLIGHT COMPANY INC.

120 Whitmore Road, Unit 20, Woodbridge, Ontario, L4L6A5, Canada
Tel.: +1.905.850.0990 || E-mail: gsci@gsci1.com || Web: www.gsci1.com



UNITEC-B



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UNITEC-B DISTINCTIVE FEATURES

- High-Resolution Uncooled FPAs: 384x288 and 640x480
- Fast Refresh Rate: 50Hz
- Quality and “Fast” Germanium Lenses
- Dual-OLED Display Design
- Optional Built-In Video Recorder
- Ultra-Low Power Consumption
- Completely Silent System Operation
- Precision-Machined Rugged Aluminum Body
- Lowest Heat Dissipation
- Video-out for External Display and Recording
- Stadiametric Rangefinder
- High-Resolution Micro-OLED Displays 800x600
- 24-hour Operation
- Optional Remote Control
- Manual and Automatic FPA Sensitivity Adjustment
- Manual Display Brightness Adjustment
- Black Hot / White Hot Polarity Control
- External Battery Pack Compatibility
- Complete Dust- and Waterproof Protection
- Available for Worldwide Export
- 7-Year Manufacturer’s Warranty
- Made in Canada

Models:



UNITEC-B50



UNITEC-B75



UNITEC-B100



UNITEC-B



Long-Range Thermal Imaging Binoculars

Stereoscopic Vision

Full-Size Ergonomic
Keypad with Tactile
Feedback

Video-Out and External
Power Port

Up to 8 Hours
Battery Life

Hard-Anodized
Aluminum Enclosure

"Fast" Germanium
Lenses

640x480 and 384x288
High-Performance FPAs

Non-Uniformity Correction (NUC, calibration) of FPA is performed automatically, instantly and continuously to deliver crisp and highest image quality at all times. Auto-NUC technology results in no "clicks", no interruptions in device's operation. User is not distracted to perform any FPA calibrations whatsoever.





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	UNITEC-B50-38	UNITEC-B50-64	UNITEC-B75-38	UNITEC-B75-64	UNITEC-B100-38	UNITEC-B100-64
Optical Magnification	3X	2X	4.5X	3X	6X	4X
Objective Lens Focal Length	50mm		75mm		100mm	
Objective Lens F-Number	f/1.0		f/1.3		f/1.4	
Field of View	7.5°x5.6°	12.4°x9.3°	5.0°x3.7°	8.3°x6.2°	3.7°x2.8°	6.2°x4.7°
Focusing Range	3m .. Infinity		4m .. Infinity		5m .. Infinity	
FPA Resolution and Pitch	384x288, 17µm	640x480, 17µ	384x288, 17µm	640x480, 17µ	384x288, 17µm	640x480, 17µ
FPA Type	Uncooled, a-Si, Shutterless, Silent, Auto-NUC (Uninterrupted Operation)					
FPA Sensitivity	<60mK					
FPA Refresh Rate	50Hz					
Digital Zoom	2X and 4X					
Display	Dual-AMOLED, Colour, 800x600					
Imaging Modes	1 Monochrome + 8 Colour					
Digital Video Recorder	Optional: Built-In with microSD Card or External with SD Card					
Max. Detection Human (1.7x0.5m)	1,660m		2,500m		3,330m	
Max. Detection Vehicle (2.3x2.3m)	2,250m		3,380m		4,500m	
Accepted Batteries	4pcs AA, any kind: Lithium, Rechargeable, Alkaline, etc.					
Battery Life	Up to 8 hours					
Environmental Protection	IP66, IP67 or Better					
Dimensions	161x142x71mm		181x142x71mm		218x149x86mm	
Weight	825 grams		930 grams		925 grams	
Operating Temperature	-40°C .. +50°C					
Warranty	7 Years, Limited					
Export	Available Worldwide (Canadian Export Permit Required. GSCI provides full assistance in obtaining Export Permit)					



UNITEC-B









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List of Standard Equipment for UNITEC-B

	Selected UNITEC-B Device
	Stadiametric Rangefinder (Installed)
	USB Power Cable
	Video-Out Cable
	Neck Strap
	2 Quick Swap Battery Holders
	Hard Carrying Case
	User Manual with 7-Year Warranty

List of Optional Equipment for UNITEC-B (Continued)

		Built-In Video Recorder. Comes with microSD card and SD adapter
		External Video Recorder with SD card
		Wired Remote Control Unit with Video-Out
		Video-Out to USB Video Adapter
		Portable Head-Mounted Display HMD-800 (streams thermal video directly from the device)