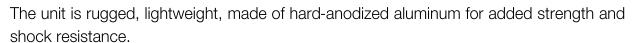


The QUADRO-B50-MOD is the augmented vision long-range binoculars for tactical surveillance and observation.

Along with selecting between visible/near-infrared and far-infrared (thermal) channels individually, GSCI's Unique Patented technology allows to produce and display real-time, delay-free *fusion* image that superimposes all ranges of the spectrum from its sensors to successfully detect any target and defy poor lighting or weather conditions. Wide field of view allows for better situation awareness.









#### **KEY FEATURES**

- 100% Target Detection Capability
- Dual-Eye, Long-Range Observation
- Multi-Mode 24/7 Operation
- High Situational Awareness
- Auto-NUC: No Calibration Needed
- Universal Power Solution

#### MAIN APPLICATIONS

- Defence
- Security
- Border Patrol
- Special Forces
- Surveillance
- Reconnaissance













Designed, Developed, Manufactured by GENERAL STARLIGHT COMPANY INC.

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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 Company, Inc. Mass of the product represents measurable weight of all components this product consists of, such as optics, mechanics and electronics. Weight of image Intensifier tubes may vary depending on the type and make of Image Intensifier tube being used and therefore is listed separately. 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 © 1992-2020 General Starlight Co., Inc. Canada. All rights reserved.



#### FACE RECOGNITION TECHNOLOGY READY.

The QUADRO lineup is designed utilizing GSCI's patented technology that produces and displays real-time, delay free fusion image that superimposes both spectral ranges covered by its sensors. Besides a number of unique features, this device combines consequential technologies to produce an image allowing for facial recognition in low light or night conditions. The data recorded can be used for enhanced real-time biometrics and post mission forensic analysis for covert nighttime operations. Using this type of technology for recognition at nighttime has revolutionized warfare as it has proven extremely beneficial for informing a soldier that the individual is someone of interest and reducing risk of misidentification.

Fused images can be used in combination with biometric face databases/watch lists that only contain visible face imagery. The fusion technology allows taking advantage of both technologies and combining thermal and visible imagery to jointly preserve the shape of the entire face and appearance of the local identifying details.

Detecting objects that were difficult, or impossible, to see using current state-of-the-art thermal cameras was the main objective behind the design of the QUADRO systems, and all the functions can be done with a simple press of a button.



Additional Features such as Digital Edge Detection and Digital Detail Enhancement make Face Recognition even more effective







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# ADVANCED PHOTONICS TACTICAL LONG RANGE FUSION BINOCULARS

### QUADRO-B50-MOD

QUADRO-B50-MOD TECHNICAL DATA			
SYSTEM	FOV	14.4° × 9.3°	
	Optical Zoom	2X	
	Focusing Distance	1m Infinity	
	Eyerelief	20mm	
	Stow Safety Feature (SSF)	Equipped	
	Stadiametric Rangefinder (SRF)	Equipped	
	Digital Details Enhancement (DDE)	Equipped	
	Digital Edge Detection (DED)	Equipped	
	Real-Time Clock with Date- Time Stamp	Equipped: Simplified, Extended, DTG Formats available	
	Detection Human (1.7x0.5m)	Up to 1160m	
	Detection Vehicle (2.3x2.3m)	Up to 2250m	
	Integrated Laser	User's Choice: No Laser, 665nm or 850nm	
THERMAL CHANNEL (LWIR)	FPA Type	a-Si Microbolometer, Uncooled, Shutterless, Auto-NUC	
	FPA Spectral Range	7μm 14μm	
	FPA Sensitivity	<50mK	
	FPA Gain	Manual/Automatic	
	FPA Resolution	640x480, 17µm pitch	
	FPA Refresh Rate	50Hz	
	Digital Zoom	2X, 4X	
	Objective Lens	f/1.0	
	Polarity Control	Yes	
	Imaging Modes	1 Monochrome and 8 Pseudo-Colours	

QUADRO-B50-MOD TECHNICAL DATA (Continued)			
DAY/NIGHT CHANNEL DISPLAY IMAGE FUSION	Sensor Type	CCD	
	Sensor Size	1/3"	
	Resolution	800x600	
	Sensitivity	Up to 0.1Lux	
	VNIR Modes	Day/Night	
	Display Type	Full Size: 0.5-Inch, Colour, Dual- AMOLED, 800x600	
	Display Brightness Control, Contrast	Manual, >10000:1	
	Туре	Real-time, Electronic	
	Fused Channels	LWIR + VNIR	
	Parallax Compensation	Electronic, Adjustable	
S	Heat Signature Opacity Range	User Adjustable: 0% 100%	
ELECTRONICS, N	Digital Video Recorder	Built-In with Removable 32GB microSD Card (comes with SD Adapter)	
	Power Supply	4 AA Batteries and/or various External Power Sources	
	Quick Swap Battery Packs	Each holds 4xAA (Lithium recommended)	
E C	External Power Source Voltage Range	5VDC 15VDC	
ANIC	Autonomy on 4 AA Batteries	Up to 7 hours	
)AL A	Video Output	CVBS 1Vpp @ 75 Ohm	
ELECTRONICS, MECHANICAL AND ENVIRONMENTAL	Operating Temperature	-40°C +50°C	
	Storage Temperature	-50°C +60°C	
	Housing Material	Hard-Anodized Aluminum	
	Dimensions, mm	165x152x68	
	Weight, grams	995	
	Environmental Protection	Waterproof, Nitrogen-Purged	
	Export	Available Worldwide *	

\* Canadian Export Permit Required. GSCI provides assistance in obtaining the





#### ADVANCED PHOTONICS

# TACTICAL LONG RANGE FUSION BINOCULARS

## QUADRO-B50-MOD

#### STANDARD KIT CONTENTS: WHAT'S IN THE BOX





(comes with rubber eyecups, lens covers, 32GB

microSD card, SD adapter, User Manual and



Neck Strap



USB Power Cable



Video-Out Cable



Quick-Swap Battery Holders



Soft Carrying
Pouch



Hard Waterproof
Case

#### **OPTIONAL ACCESSORIES**



Warranty Card)

External Video Recorder with SD Card



Wired Remote Control with Video-Out



Video-Out to USB Adapter



Portable Head-Mounted Display HMD-800/HMD-800-MOD (streams video directly from the device)