

The QUADRO-B 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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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











ADVANCED PHOTONICS

TACTICAL LONG RANGE FUSION BINOCULARS

QUADRO-B100-MOD

QUADRO-B100-MOD TECHNICAL DATA			
SYSTEM	FOV	6.2° x 4.7°	
	Optical Zoom	4X	
	Focusing Distance	3m 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 3330m	
	Detection Vehicle (2.3x2.3m)	Up to 4500m	
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/1.4	
	Polarity Control	Yes	
	Imaging Modes	1 Monochrome and 8 Pseudo-Colours	

	QUADRO-B100-MOD TECHNIC	CAL DATA (Continued)
DA	Sensor Type	CCD
DAY/NIGHT CHANNEL (VNIR)	Sensor Size	1/3"
	Resolution	800x600
	Sensitivity	Up to 0.1Lux
	VNIR Modes	Day/Night
DISPLAY IMAGE FUSION	Display Type	Full Size: 0.5-Inch, Colour, Dual- AMOLED, 800x600
AY	Display Brightness Control, Contrast	Manual, >10000:1
M	Туре	Real-time, Electronic
GE F	Fused Channels	LWIR + VNIR
-USI	Parallax Compensation	Electronic, Adjustable
2	Heat Signature Opacity Range	User Adjustable: 0% 100%
E	Digital Video Recorder	Built-In with Removable 32GB microSD Card (comes with SD Adapter)
ECTRC	Power Supply	4 AA Batteries and/or various External Power Sources
ELECTRONICS, MECHANICAL AND ENVIRONMENTAL	Quick Swap Battery Packs	Each holds 4xAA (Lithium recommended)
1ECH	External Power Source Voltage Range	5VDC 15VDC
IANIC	Autonomy on 4 AA Batteries	Up to 7 hours
CAL /	Video Output	CVBS 1Vpp @ 75 Ohm
ND	Operating Temperature	-40°C +50°C
ENVI	Storage Temperature	-50°C +60°C
NOE	Housing Material	Hard-Anodized Aluminum
VEN.	Dimensions, mm	230x152x86
TAL	Weight, grams	1175
	Environmental Protection	Waterproof, Nitrogen-Purged Housing
	Export	Available Worldwide *

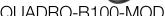
* Canadian Export Permit Required. GSCI provides assistance in obtaining the

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STANDARD KIT CONTENTS: WHAT'S IN THE BOX





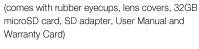
Neck Strap



USB Power Cable



Video-Out Cable





Quick-Swap **Battery Holders**



Soft Carrying Pouch



Hard Waterproof Case

OPTIONAL ACCESSORIES



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)