

The QUADRO-B100 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.

The unit is rugged, lightweight, made of hard-anodized aluminum for added strength and shock resistance.

### **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, everying, objective lens covers, and/or battery extensions may vary and therefore are not listed herein. Copyright © 1992-20/21 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





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# GSCI

#### **ADVANCED PHOTONICS**

### FUSION MULTI-CHANNEL BUNOCULARS

## QUADRO-B100

OPTICAL PARAMETERS	Optical Magnification	4X
	Field of View	6.2x°4.7°
	Focusing Range	3m Infinity
	Eyepiece	Dual
	Eyerelief	Min. 20mm
SYST	Digital Passive Stadiametric Rangefinder (SRF)	Yes
	Digital Detail Enhancement Feature (DDE)	Yes
	Digital Edge Detection Feature (DED)	Yes
EM	Wide Dynamic Range Feature (WDR)	Yes
PAF	Stow Safety Feature (SSF)	Yes
SYSTEM PARAMETERS: CAPABILITIES AND SPECIAL FEATURES	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
PAE	Power Saving Mode	Yes
3ILI1	Real-Time Date-Time Stamp	Yes: Simplified, Extended, DTG Formats
ΓIES	Digital Video Recorder with Real-Time Stamp	Optional: Comes with Removable 32GB microSD Card
AND	Detection Capability: Man (1.7x0.5m) / NATO Target (2.3x2.3m)	3330m / 4500m
SPE	Hand-Held Configuration	Yes
CIA	Tripod-Mountable	Yes
137	User Profiles (Configurable)	Yes: 8
ΞΑΤΙ	Automatic/Manual Pixel Masking	Yes
JRE	Reset to Factory Defaults	Yes
S	External Video Feed Protection	Yes
	Automatic Power Down Control	User-Configurable: 10 60 minutes of inactivity
1	FPA Туре	Uncooled, a-Si, Shutterless, Silent, Auto-NUC (Uninterrupted Operation)
THERMAL (LWIR) CHANNEL	FPA Resolution and Pitch	640x480, 17μm
RMAL (LW	FPA Sensitivity (NETD)	<50mK
NNE (I	FPA Refresh Rate	50Hz
EL MI	Digital Zoom	1X, 2X, 4X
R)	Imaging Modes	Monochrome (White-Hot / Black-Hot) and 8 Colour Palettes
-	Sensor Type	High-Performance CCD
DAY/NIGHT (VNIR) CHANNEL	Sensor Size	1/3"
	Resolution	800x600
	Sensitivity	Up to 0.1Lux
	Night Boost Mode	Yes
	VNIR Modes	Day/Night
		, ,

D	Internal Display	Full Size: 0.5-Inch Diagonal, Dual-
DISPLAY	птетна візріаў	AMOLED, Colour, 800x600
ΑΥ	Internal Display Contrast	>10000:1
7	Туре	Real-time, Electronic
/AG	Fused Channels	LWIR + VNIR
E	Parallax Compensation	Electronic, Adjustable
IMAGE FUSION	Heat Signature Opacity Range	User Adjustable: 0% 100%
	Accepted Batteries	4 (Four) AA: Lithium Recommended
9 2	Universal Port	Video-Out, Remote Control and External Power (4VDC 15VDC)
ECT ≤R	Video Output Signal	CVBS 1Vpp @ 75 0hm
S R	Battery Life on 4x AA	Up to 7 Hours
MEN	Environmental Protection	Min. IP67, Nitrogen-Purged Housing
S, M	Dimensions	230x152x86 mm
ELECTRONICS, MECHANICAL, ENVIRONMENTAL FEATURES	Weight	1.2 kg
AT IA	Operating Temperature	-40°C +50°C
ICAI JRE	Storage Temperature	-55°C +65°C
ω 1,	Body Material	Hard-Anodized Aluminum
	Warranty	7 Years, Limited

QUADRO-B100 is Available for Export Worldwide. Canadian Export Permit Required. GSCI provides assistance in obtaining the Permit.



STANDARD EQUIPMENT: WHAT'S IN THE BOX		
1	Fusion Binoculars	
2	Rubber Eyecups (Installed on the device) + Spares	
3	Protective Lens Covers (Installed on the device)	
4	USB Power Cable (5-pin to USB)	
5	Video-Out Cable (5-pin to RCA)	
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)	

OPTIONAL EQUIPMENT		
Α	Universal Remote Control Unit TRC-120 (Comes with connection cable)	
В	Advanced Helmet Mount Harness HMH-1	
С	Universal Multi-Voltage Battery Pack MVP-240 (Comes with connection cable)	
D	Built-In Digital Video Recorder GS-DVR-INT (Comes with 32GB microSD card and SD adapter)	
E	External Digital Video Recorder GS-EDVR (Comes with set of cables and 32GB SD card)	
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	
Н	Tactical Infrared Illuminator IR-250S. Kit Includes IR-250S Unit (850nm), Remote Control, Picatinny Mount	

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