



FUSION MULTI-CHANNEL BUNOCULARS QUADRO-B50









The QUADRO-B50 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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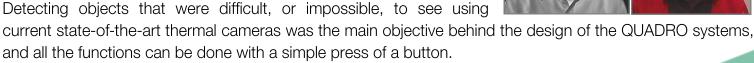


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FACE RECOGNITION TECHNOLOGY READY.

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.



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







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ADVANCED PHOTONICS

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QUADRO-B50

P/	Optical Magnification	2X
문유	Field of View	12.4x°x9.3°
OPTICAL RAMETE	Focusing Range	1m Infinity
OPTICAL PARAMETERS	Eyepiece	Dual
RS	Eyerelief	Min. 20mm
	Digital Passive Stadiametric Rangefinder (SRF)	Yes
တွ	Digital Detail Enhancement Feature (DDE)	Yes
ΓSΥ	Digital Edge Detection Feature (DED)	Yes
Ε̈́	Wide Dynamic Range Feature (WDR)	Yes
PAR	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
ERS	Integrated Compass	Optional
\$; C/	Pitch / Roll / Azimuth Indications	Optional
PAE	Power Saving Mode	Yes
l ii	Real-Time Date-Time Stamp	Yes: Simplified, Extended, DTG Formats
TES	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)	1660m / 2250m
PE	Hand-Held Configuration	Yes
CIA	Tripod-Mountable	Yes
Έ	User Profiles (Configurable)	Yes: 8
Ä	Automatic/Manual Pixel Masking	Yes
URI	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)
O HE	FPA Resolution and Pitch	640x480, 17μm
ERMAL (LW CHANNEL	FPA Sensitivity (NETD)	<50mK
NN (FPA Refresh Rate	50Hz
THERMAL (LWIR) CHANNEL	Digital Zoom	1X, 2X, 4X
IR)	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

DISPLAY	Internal Display	Full Size: 0.5-Inch Diagonal, Dual- AMOLED, Colour, 800x600
LAY	Internal Display Contrast	>10000:1
=	Туре	Real-time, Electronic
/AG	Fused Channels	LWIR + VNIR
<u> </u>	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)
≦R CT	Video Output Signal	CVBS 1Vpp @ 75 Ohm
ON ROS	Battery Life on 4x AA	Up to 7 Hours
	Environmental Protection	Min. IP67, Nitrogen-Purged Housing
ELECTRONICS, MECHANICAL, ENVIRONMENTAL FEATURES	Dimensions	165x152x68mm
표	Weight	995 grams
ÄÄ	Operating Temperature	-40°C +50°C
ਡ ਨ	Storage Temperature	-55°C +65°C
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AL,	Body Material	Hard-Anodized Aluminum

QUADRO-B50 is Available for Export Worldwide. Canadian Export Permit Required. GSCI provides assistance in obtaining the Permit.





FUSION MULTI-CHANNEL BUNOCULARS QUADRO-B50

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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