



# ADVANCED PHOTONICS ULTRA LONG-RANGE FUSION BINOCULARS QUADRO-B100

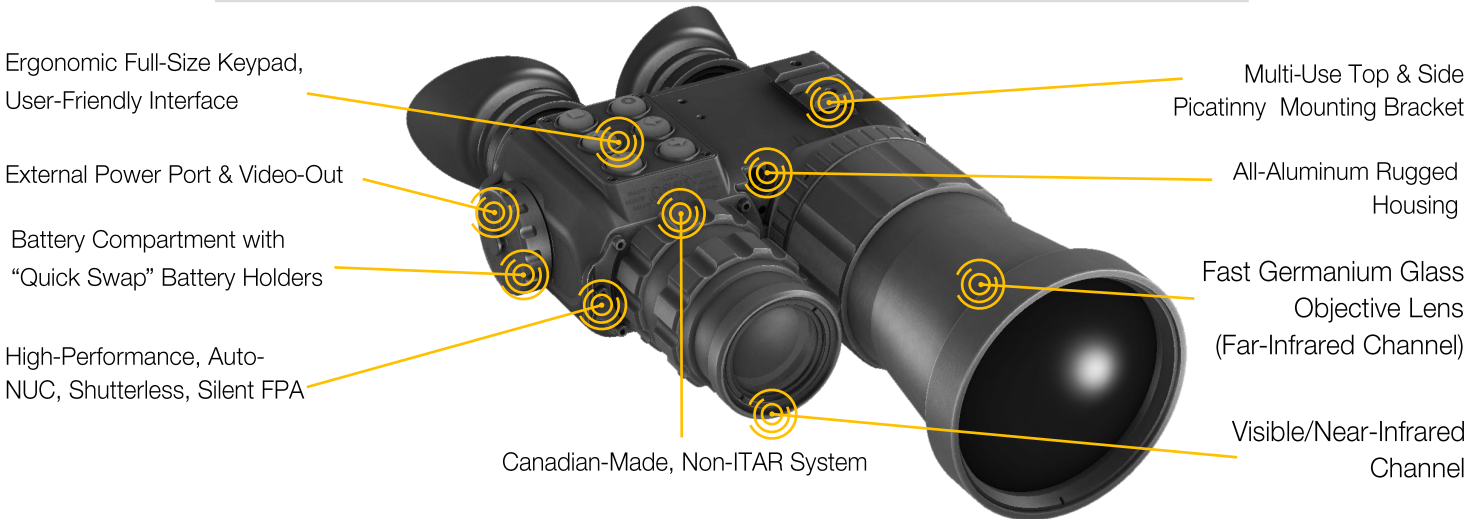


The QUADRO-B100 is the augmented vision long-range binoculars for tactical surveillance and observation.

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.

## ADVANTAGES OF QUADRO-B100



### KEY FEATURES

- ◆ 100% Target Detection Capability
- ◆ Multi-Mode 24/7 Operation
- ◆ Auto-NUC: No Calibration Needed
- ◆ Dual-Eye, Long-Range Observation
- ◆ ITAR-Free System: Available for Export

### MAIN APPLICATIONS

- ◆ Special Forces
- ◆ Security & Law Enforcement
- ◆ Perimeter Security
- ◆ Border Patrol
- ◆ Tactical Surveillance & Reconnaissance



**Designed, Developed, Manufactured by GSCI Advanced Photonics**  
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**ADVANCED PHOTONICS**  
**ULTRA LONG-RANGE**  
**FUSION BINOCULARS**  
**QUADRO-B100**

<b>OPTICAL PARAMETERS</b>	Optical Magnification	4X
	Field of View	6.2x4.7°
	Focusing Range	3m .. Infinity
	Eyepiece	Dual
	Eyerelief	Min. 20mm
	<b>SYSTEM PARAMETERS: CAPABILITIES AND SPECIAL FEATURES</b>	Digital Passive Stadiametric Rangefinder (SRF)
Digital Detail Enhancement Feature (DDE)		Yes
Digital Edge Detection Feature (DED)		Yes
Wide Dynamic Range Feature (WDR)		Yes
Stow Safety Feature (SSF)		Yes
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
Power Saving Mode		Yes
Real-Time Date-Time Stamp		Yes: Simplified, Extended, DTG Formats
Digital Video Recorder with Real-Time Stamp		Optional: Comes with Removable 32GB microSD Card
Detection Capability: Man (1.7x0.5m) / NATO Target (2.3x2.3m)		3330m / 4500m
Hand-Held Configuration		Yes
Tripod-Mountable		Yes
User Profiles (Configurable)		Yes: 8
Automatic/Manual Pixel Masking		Yes
Reset to Factory Defaults		Yes
External Video Feed Protection		Yes
Automatic Power Down Control		User-Configurable: 10 .. 60 minutes of inactivity
<b>THERMAL (LWIR) CHANNEL</b>		FPA Type
	FPA Resolution and Pitch	640x480, 17µm
	FPA Sensitivity (NETD)	<50mK
	FPA Refresh Rate	50Hz
	Digital Zoom	1X, 2X, 4X
	Imaging Modes	Monochrome (White-Hot / Black-Hot) and 8 Colour Palettes
<b>DAY/NIGHT (VNIR) CHANNEL</b>	Sensor Type	High-Performance CCD
	Sensor Size	1/3"
	Resolution	800x600
	Sensitivity	Up to 0.1Lux
	Night Boost Mode	Yes
	VNIR Modes	Day/Night

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



Made In Canada, ITAR-Free

\* Batteries are not included

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**STANDARD EQUIPMENT: WHAT'S IN THE BOX**

1	Fusion Binoculars
2	Rubber Eyecups ( <i>Installed on the device</i> )
3	Protective Lens Covers ( <i>Installed on the device</i> )
4	USB Power Cable ( <i>5-pin to USB</i> )
5	Video-Out Cable ( <i>5-pin to RCA</i> )
6	Quick Swap Battery Containers (AA)
7	Neck Cord
8	Soft Carrying Pouch
9	User Manual
10	7-Year Warranty Card
11	Waterproof Hard Carrying Case
12	Cleaning Kit

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**OPTIONAL EQUIPMENT**

A	Universal Remote Control Unit TRC-120 (Comes with connection cable)
B	Universal Multi-Voltage Battery Pack MVP-240 (Comes with connection cable)
C	Built-In Digital Video Recorder GS-DVR-INT (Comes with 32GB microSD card and SD adapter)
D	External Digital Video Recorder GS-EDVR (Comes with set of cables and 32GB SD card)
E	Portable Head-Mounted Display HMD-800-MOD (streams thermal video directly from the device, comes with connection cable)
F	Integrated 9-Axis Absolute Orientation HUD (Heads-Up Display), 3-Axis Sensors for Compass Reading, Inclinator/Pitch Reading, and Level/Roll Reading
G	Tactical Infrared Illuminator IR-250S. Kit Includes IR-250S Unit (850nm), Remote Control, Picatinny Mount



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