



RECON™ B2-FO

Dual Channel Day/Night Thermal Binocular with Geo-Location

The Recon B2-FO Multisensor Binocular combines long range imaging and target geolocation in a compact, portable, lightweight package. Delivering crisp, clear thermal and visible imagery for target identification at maximum standoff, the Recon B2-FO gives Forward Observers the flexibility and performance required on today's battlefield.

APPLICATIONS

- Target Geo-Location
- Reconnaissance
- Surveillance
- Situational Awareness
- Force Protection



Recon™ B2-FO in use

KEY FEATURES

- High resolution, large format 640x480 mid-wave InSb sensor (320 x 240 option)
- Dual channel: Forward Observer (FO) version includes Color CCD video day channel. Dual Channel (DC) version includes second thermal uncooled sensor
- Split screen display
- Fast 2 field-of-view system with 10 and 2.5 degree fields of view and digital zoom
- Internal Global Positioning System (GPS), Digital Magnetic Compass (DMC) and Laser Rangefinder (LRF)
- Stabilization
- Flexible remote control, power, and video options
- Lightweight and rugged, MIL-STD-810-F qualified

BENEFITS

- Delivers unmatched range performance and image quality with built-in STACE™ technology that digitally sharpens, tunes and enhances contrast for exceptional image detail
- Day/night operation, continuous optical zoom
- Offers mission flexibility and customization based on your requirements
- Perfectly matched zoom settings for the short, medium, and long range reconnaissance mission
- Provides geo-location of targets with eye safe laser rangefinder
- User Selectable E-STAB improves operational effectiveness
- Can be configured for tripod use with full remote control for continuous operation with video output
- Reduces operator fatigue for long duration missions without sacrificing field hardening

Specifications

Thermal Performance	B2-FO	B2-DC
Sensor type	640 x 480 InSb (320 x 240 InSb option)	
Number of fields of view	2	
Wide FOV	10.0° h x 8.0° v	
Narrow FOV	2.5° h x 1.8° v	
E-zoom	Continuous to 4x	
Spectral band	3-5 µm	
Automatic features	Auto focus, AGC, Digital Detail Enhancement (DDE), Position Data	
Secondary Channel Imaging Performance		
Sensor type	1/4" Color CCD	640 x 480 VOx microbolometer (320 x 240 VOx option)
Pixel format	794 x 494 pixels	-
Digital zoom	Continuous to 4x	-
Sensitivity	Low light	-
FOVs	10.0° h x 8.0°, optical zoom to 4x	Single, 18° E-zoom Continuous to 4x
Narrow FOV	2.5° h x 1.8°, optical zoom to 1.6°	-
Spectral band	-	8-12 µm
System Features		
Global Positioning System (GPS)	C/A code (supports military GPS plug-in)	
Digital Magnetic Compass	360° Az, +/- 90° El, 0.2° resolution	
Eyesafe Laser Rangefinder (LRF)	1.54 µm, 20 km maximum range	
Laser Pointer (LP)	852 nm, Class 3B, .5/30mW (optional)	
Outputs		
Video	NTSC/PAL Video, HDMI	
Connector types	BNC, HDMI	
Display type	Binocular, High Resolution, OLED	
Image presentation	B/W, Color, Split Screen	
Power		
Power requirements	7 VDC/ 16 W (9 V to 32 VDC external)	
Battery type and life	Qty 2 rechargeable D cell Lithium batteries >4.0 hours continuous and >5.0 hours in power save mode	
Environmental		
Mil-Spec	MIL-STD-810F	
Operating temp	-32°C to +55°C (-26°F to +131°F)	
Dimensions, Weight & Mounting		
Dimensions	22.2 x 24.9 x 14.2 cm (8.75" x 9.8" x 5.3")	
Weight	<4 kg (8.7 lb.), batteries included	
Mounting	Tripod mount 1/4-20 base	
Interfaces		
Command and Control	RS 232/422	
Image Download	USB (stores up to 1000 JPEGs)	
Standard Package		
Storage/transport case	Hard shell, lockable with fitted foam insert	
Adapter/charger	110 VAC/220 VAC power supply	
Batteries	6 each, Lithium D cells rechargeable	
Lens cleaning kit	Complete cleaning kit in nylon pouch	
Cables	Video cable, BA/5590 cable USB cable	
Battery charger	110 VAC/220VAC input	
Manual	Operator's Manual and Quick Reference Guide	

Options	
Laser pointer	830nm Class 3B 150mW
Soft case	Lightweight with padded zippered compartments
Extender 2.5x	2.5 Optical extender
Stabilization	E-Stab, Real Time
Fall-of-Shot	Calculate target offsets
Reticles	Standard and custom reticles available
*Recon B2-FO includes color CCD Day camera and Recon B2-DC includes uncooled thermal imager	



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