

RECON® B2-FO

Dual channel day/night thermal binocular

APPLICATIONS

**TARGET
GEO-LOCATION**

**SITUATIONAL
AWARENESS**

RECONNAISSANCE

FORCE

SURVEILLANCE

PROTECTION



The FLIR Recon® B2-FO multi-sensor binocular combines long-range imaging and target geo-location in a compact, portable, lightweight package. Integrate B2-FO into a remote kit for wireless operation and live video streaming. Add on a 2.5x extender in the field to increase target range to >10km for vehicle-size targets. 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.

The laser rangefinder's single pulse design delivers rapid and highly accurate target engagement. Its operating wavelength is beyond the view of image intensifiers, which enhances operator safety by not revealing their position. B2-FO's extreme sensitivity, narrow FOV, and MIL-STD-810-F ruggedness result in optimized range performance and increased situational awareness for a wide variety of missions, including artillery observation, sniper spotter, surveillance, and target acquisition.

FEATURES

POWERFUL MULTI-SENSOR CAPABILITY

A 640x480 cooled InSb MWIR and color CCD camera (additional uncooled sensor and stabilization available) provide superior day/night operation.

FLEXIBLE DISPLAY VIEWS

Split-screen display, two fields-of-view, perfectly matched zoom settings, GPS, DMC compass, and laser rangefinder deliver short, medium, and long-range reconnaissance.

LIGHT YET RUGGED

At 8.7 pounds with batteries, the Recon B2-FO reduces operator fatigue for long-duration missions without sacrificing MIL-STD-810-F hardening.

SIMPLE MISSION-SPECIFIC CUSTOMIZATION

An operator selects mission-critical features from an intuitive menu, which then automatically configures the camera for operation. No pre-mission programming required.

ADD STANDOFF RANGE

The optional 2.5x extender installs without tools on a bayonet mount to increase range performance beyond 10 km.

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° v, optical zoom to 48°	Single, 18° E-zoom Continuous to 4x
Narrow FOV	2.5° h x 1.8° v	–
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	9 lbs (<4.1 kg), 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	4 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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