



**DUAL CHANNEL  
DAY/NIGHT THERMAL BINOCULAR**

# FLIR Recon® B2-FO



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.

## APPLICATIONS

TARGET GEO-LOCATION

RECONNAISSANCE

SURVEILLANCE

SITUATIONAL AWARENESS

FORCE PROTECTION

## 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



### AMERICAS

FLIR Systems, Inc.  
Corporate Headquarters  
27700 SW Parkway Ave  
Wilsonville, OR 97070  
Office: +1 877.773.3547

FLIR Systems, Inc.  
DC Headquarters  
1201 S. Joyce Street  
Suite C006  
Arlington, VA 22202  
Office: +1 703.682.3400

### EUROPE

FLIR Systems  
2 Kings Hill Avenue - Kings Hill  
West Malling, Kent ME19 4AQ  
United Kingdom  
Office: +44 (0)1732 220 011  
Fax: +44 (0)1732 843 707

FLIR Systems AB  
Antennvägen 6,  
PO Box 737  
SE-187 66 Täby  
Sweden  
Office: +46 (0)8 753 25 00

### MIDDLE EAST

FLIR Systems B.V. - Abu Dhabi  
Wadi Al Fey St.  
Building 60, Office # 302  
New Ministries Exit / Khalifa Park Area  
Abu Dhabi, U.A.E.  
Office: +971 2 666 1561  
e-Fax: +1 503 914 1591

FLIR Systems Saudi Arabia  
Office 127, First Floor  
Akaria Plaza Building, Olaya Street  
Riyadh, 11481, Saudi Arabia  
Office: +966 11 464 5323  
Fax: +966 11 464 0438

### ASIA

FLIR Systems Japan K.K.  
Meguro Tokyu Bldg. 5F,  
2-13-17  
Kami-Osaki, Shinagawa-ku.  
Tokyo, 141-0021, Japan  
Office: +81-3-6721-6648

For More Information contact  
surveillance\_sales@flir.com

www.flir.com  
NASDAQ: FLIR

Equipment described herein is subject to US export regulations and may require a license prior to export. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2019 FLIR Systems, Inc. All rights reserved. 01/14/19

18-0682-SUR-ReconB2-FO-SS A4



The World's Sixth Sense®