

# Recon<sup>®</sup> B9-FO

MEDIUM RANGE, LIGHTWEIGHT  
THERMAL BIOCULAR



## APPLICATIONS

TARGET ACQUISITION  
FORWARD OBSERVATION  
RECONNAISSANCE  
SURVEILLANCE  
SITUATIONAL AWARENESS  
FORCE PROTECTION  
BORDER PATROL

## FEATURES

High resolution, large format 640x480 longwave VOx Microbolometer

New automatic digital image processing techniques

Lightweight and rugged MIL-STD-810F qualified

Internal digital magnetic compass and GPS

Continuous zoom color camera

Flexible, power, and video options

Integrated Laser Range Finder (LRF)

Laser pointer (option)

It's all FLIR inside

## BENEFITS

Delivers unmatched range performance and image quality

Offers image detail unmatched by analog systems

Reduces operator fatigue for long duration missions without sacrificing field hardening

Allows operator to determine target location and communicate direction to support personnel

Provides color discrimination to operator, improving the ability to describe a daylight scene

Can be configured for tripod use for continuous operation with video output

Accurate rangefinding to >3Km

Offers additional tactical advantage when coupled with night vision equipment; has eyesafe training operation mode

FLIR controls the entire supply chain on the critical technology inside Recon systems, ensuring fast service and long term support



High sensitivity thermal imagery



Split screen mode viewing capability



## Recon® B9-FO

### THERMAL IMAGING PERFORMANCE

Sensor type	640 x 480 VOx microbolometer
FOV	9.3° h x 7° v (320 x 240 VOx option)
Digital zoom	Continuous to 4x
Spectral band	8-12 µm
Automatic features	AGC, STACE™ Digital Detail Enhancement (DDE), Auto focus

### VISIBLE COLOR CHANNEL

Sensor type	1/4" HAD CCD
Pixel format	768 x 494 pixels
Optical zoom	Continuous to 10x
Digital zoom	Continuous to 4x
Sensitivity	0.1 lux
FOV	9.3° h x 7° v, optical zoom from 46° to 4.6°

### SYSTEM FEATURES

Global Positioning System (GPS)	C/A code (supports military GPS plug-in)
Digital Magnetic Compass	360° Az, +/- 90° El, 0.2° resolution
Integrated Eyesafe Laser Rangefinder (LRF)	1.54 µm, > 3 km, Class IM
Laser Pointer (LP) Option	852nm, Class 3B, 0.5/30mW
Image Presentation	Monochrome, color and split screen (picture over picture)

### POWER

Power requirements	7 VDC/ 11 W (9 V to 32 VDC external)
Battery type and life	Qty 2 long life rechargeable D cell Lithium batteries >5.0 hours continuous and >6.0 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	22.1 x 21.3 x 10.9 cm (8.7" x 8.4" x 4.3")
Weight	<2.5 kg (5.5 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/220VAC power supply
Batteries	6 each, Lithium D cells, rechargeable
Lens cleaning kit	Complete cleaning kit in nylon pouch
Cables	Video cable, 3 m with BNC connectors, cigarette lighter, 3m USB cable
Battery charger	110 VAC/220 VAC input
Soft case	Lightweight with padded zippered compartments
Manual	Operator's Manual and Quick Reference Guide

### OPTIONS & ACCESSORIES

150 mW LP, Class 3B, 830nm, tripod, display, interface and power cables, soft carry bag

**STACE™**  
Digital Image Enhancement

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