

Recon[®] B2-FO

FULLY INTEGRATED MULTI-SENSOR SYSTEM
DUAL CHANNEL DAY/NIGHT THERMAL BIOULAR
WITH GEO-LOCATION



APPLICATIONS

TARGET GEO-LOCATION
RECONNAISSANCE
SURVEILLANCE
SITUATIONAL AWARENESS
FORCE PROTECTION

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)

Laser pointer options

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

Offer additional tactical advantage when coordinated with night vision equipment users

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



High sensitivity thermal imagery



Joystick controls



Recon® B2-FO

THERMAL IMAGING PERFORMANCE (B2-FO AND 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

B2-FO	
Sensor type	1/4" Color CCD
Pixel format	794 x 494 pixels
Digital zoom	Continuous to 12x
Sensitivity	Low light
Wide FOV	10.0° h x 8.0°, optical zoom to 42°
Narrow FOV	2.5° h x 1.8°, optical zoom to 1.6°

B2-DC	
Sensor type	640 x 480 VOx microbolometer
FOV	Single, 18° (320 x 240 VOx option)
E-zoom	Continuous to 4x
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

OUTPUTS

Video	NTSC/PAL Video, HDMI
Connector types	BNC, HDMI
Display type	Binocular, High Resolution, OLED
Image presentation	Monochrome, 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, 3 m with BNC connectors, 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
Interface and power cables	Maintenance manual
Display	Tripod, Pan/Tilt, Goniometer, wireless communication

*Recon B2-FO includes color CCD Day camera and Recon B2-DC includes uncooled thermal imager

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Digital Image Enhancement

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