The FLIR Recon® B2-FO multi-sensor biocular 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**

<table>
<thead>
<tr>
<th>Thermal Performance</th>
<th>B2-FO</th>
<th>B2-DC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor type</td>
<td>640 x 480 InSb (320 x 240 InSb option)</td>
<td>640 x 480 VOx microbolometer (320 x 240 VOx option)</td>
</tr>
<tr>
<td>Number of fields of view</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Wide FOV</td>
<td>10.0° h x 8.0° v</td>
<td>10.0° h x 8.0° v, optical zoom to 48°</td>
</tr>
<tr>
<td>Narrow FOV</td>
<td>2.5° h x 1.8° v</td>
<td>8.0°</td>
</tr>
<tr>
<td>E-zoom</td>
<td>Continuous to 4x</td>
<td>Single, 18° E-zoom Continuous to 4x</td>
</tr>
<tr>
<td>Spectral band</td>
<td>3-5 μm</td>
<td>8-12 μm</td>
</tr>
<tr>
<td>Automatic features</td>
<td>Auto focus, AGC, Digital Detail Enhancement (DDE), Position Data</td>
<td></td>
</tr>
</tbody>
</table>

**Secondary Channel Imaging Performance**

| Sensor type | 1/4” Color CCD | 640 x 480 VOx microbolometer |
| Pixel format | 794 x 494 pixels |  |
| Digital zoom | Continuous to 4x |  |
| Sensitivity | Low light |  |
| FOVs | 10.0° h x 8.0° v | Single, 18° E-zoom Continuous to 4x |
| Narrow FOV | 2.5° h x 1.8° v |  |
| Spectral band |  |  |

**System Features**

- Global Positioning System (GPS): L1A 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

**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*