The Recon B2-FO Multisensor Binocular combines long range imaging and target geolocation in a compact, portable, lightweight package. 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.

**APPLICATIONS**
- Target Geo-Location
- Reconnaissance
- Surveillance
- Situational Awareness
- Force Protection

**KEY 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)
- Stabilization
- 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
- User Selectable E-STAB improves operational effectiveness
- 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
### Specifications

#### Thermal Performance

<table>
<thead>
<tr>
<th></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>
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<tr>
<td>Number of fields of view</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Wide FOV</td>
<td>10.0° h x 8.0° v</td>
<td></td>
</tr>
<tr>
<td>Narrow FOV</td>
<td>2.5° h x 1.8° v</td>
<td></td>
</tr>
<tr>
<td>E-zoom</td>
<td>Continuous to 4x</td>
<td></td>
</tr>
<tr>
<td>Spectral band</td>
<td>3-5 μm</td>
<td></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

<table>
<thead>
<tr>
<th></th>
<th>B2-FO</th>
<th>B2-DC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor type</td>
<td>1/4&quot; Color CCD</td>
<td>640 x 480 VOx microbolometer (320 x 240 VOx option)</td>
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<tr>
<td>Pixel format</td>
<td>794 x 494 pixels</td>
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</tr>
<tr>
<td>Digital zoom</td>
<td>Continuous to 4x</td>
<td></td>
</tr>
<tr>
<td>Sensitivity</td>
<td>Low light</td>
<td></td>
</tr>
<tr>
<td>FOVs</td>
<td>10.0° h x 8.0°, optical zoom to 42°</td>
<td>Single, 18° E-zoom Continuous to 4x</td>
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<tr>
<td>Narrow FOV</td>
<td>2.5° h x 1.8°, optical zoom to 1.6°</td>
<td></td>
</tr>
<tr>
<td>Spectral band</td>
<td></td>
<td>8-12 μm</td>
</tr>
</tbody>
</table>

#### 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: <4 kg (8.7 lbs.), 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, 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: 2.5 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*