

MILTECH Portable Series Multi-Sensor Binocular with Integrated Laser Rangefinder

The **MLT-IRB-75** is a handheld 640x480 LWIR and daylight binocular imager offered by Miltech Hellas, suited for demanding medium-range multispectral intelligence, surveillance and reconnaissance applications.

For mission-critical situational awareness and target acquisition, the IRB-100 delivers exceptional high-definition thermal and visible spectrum imaging around the clock, meeting the exacting requirements of military, national security, and law enforcement agencies.

Engineered with robust, high-quality materials and advanced features, the IRB-75 delivers exceptional image clarity. Our quality guarantee, fast service response, and long-term support ensure reliability, making the IRB-75 an efficient and cost-effective choice for portable thermal imaging.



Suite of Internal Sensors

The included GPS module and Digital Magnetic Compass provide highly accurate field coordinates and orientation, and the Digital goniometer takes the guesswork out of calculating line of sight angles. The optional Laser Rangefinder unit ensures accurate Rangefinding with $\pm 0.1\text{m} - 0.5\text{m}$ accuracy up to 6 Km and 3.4 Km for NATO targets.

Rugged, Compact and Lightweight

Developed and tested in extreme environmental conditions for extensive periods of time to meet demanding military standards, the binoculars operate under severe scenarios without compromising on performance. Alongside MIL-STD-810G and 461F certifications, they have an ingress protection (IP) rating of 67, making them both dustproof and capable of withstanding water immersion.

Ease of Use

The five color imaging options allow operators to choose the best thermal vision palette that fits their operational environment. Both cameras can capture videos and images on the removable microSD card, allowing for detailed post-mission analysis recorded from the IRB-75.

Applications

- **Border Security**
- **Reconnaissance**
- **Site Surveillance**
- **High-Risk Area Monitoring.**



Multi-Sensor Binocular Thermal Imaging

THERMAL IMAGING:

Sensor Type	640 X 480
Pixel pitch	17µm
Spectral Response	7-14 µm
Thermal Sensitivity	<40mK
Field of View	8.2° H X 6.2° V

INTEGRATED DAY CAMERA:

Sensor Type	1/3" Color CCD
Field of View	19°

INTEGRATED LASER RANGEFINDER:

Range (max.)	6Km
Accuracy	0.5m

DIGITAL MAGNETIC COMPASS - DMC:

Heading	0° - 360°
Elevation	-90° to +90°
Roll	-90° to +90°

GPS:

Accuracy	<1.8m
Cold Start	30s

INTERFACES:

Video Output	Analog, PAL
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POWER:

Battery Type	2 x 18650 Li-ion / 4 x CR123
Run Time	10 hours (depending on LRF use)
External Power	6-12 VDC

ENVIRONMENTAL:

Operating Temperature Range	40° C to +65° C
Storage Temperature Range	-45° C to +70° C
Standard	MIL-STD-810G, MIL-STD-461F
Waterproof	IP67
Material	Anodized Aluminum

STANDARD FEATURES:

Eyepiece Display.	Dual Binocular Display
Dioptic Correction	-5,5 to +2,5
Eye Relief	30mm, Rubber Shield Protection
Digital Zoom	x1, x2, x4
Refresh Rate	30 Hz standard (60 Hz optional)
Controls	Gain – Contrast – Brightness – Black/White Hot – Zoom
On-screen Indicators	Polarity – Zoom - Battery
Image Capture Video Recording	Captures and stores video in integrated SD Card
Region of Interest	Available
Color Palette	Black-Hot, White-Hot, Nightvision, Rainbow, Red-Hot
Automatic Gain Control (AGC)	Available
Mounting	Fits Picatinny rail (MIL-STD-1913) for external integrations
System Size (LxWxH)	250mm x 170mm x 90mm

ACCESSORIES:

Soft Case	Padded soft case for field transport
Hard Case	Hard sided case for storage or shipping
Lens Cleaning Kit	Soft lens brush and lens wipes
Operators Manual	Includes sight operation and maintenance
Quick Reference Guide	Pocket size card
Video Cable	Sight connector to BNC for output to monitor
WiFi and RF	Available upon request