

MILTECH Portable Series

Cooled Multi-Sensor Binocular

The **MLT-IRB-170C** is a portable cooled thermal imager offered by Miltech Hellas, suited for highly demanding and specialized multispectral intelligence, surveillance and reconnaissance applications.

The **MLT-IRB-170C** meets challenging operational requirements for situational awareness and target acquisition, providing high-definition night and day imaging for national security applications.



Alongside the thermal imager, the binoculars also feature integrated GPS and IMU modules, a Laser Rangefinder with over 32 kilometers of distance detection, Digital Magnetic Compass, and a high-definition daytime camera system. Both cameras allow for image and video capture. Featuring superior and robust construction

with a new portable design, premium features, and unparalleled image quality, this cooled thermal imager comes standard with our quality guarantee, fast-turnaround service, and long-term support. Together, these advantages make it the most lightweight, efficient, and cost-effective option on the market.

Advanced Targeting System

The advanced targeting algorithms combine extensive real-time data from the high precision Laser Rangefinder unit, GPS module and Digital Magnetic Compass to provide highly accurate coordinates. Digital goniometer integration takes the guesswork out of calculating line of sight angles. Optional Wi-Fi and RF capabilities ensure mission support even in denied environments.

32KM Integrated Laser Rangefinder

The built-in high-end Laser Rangefinder unit ensures accurate range-finding with $\pm 0.5\text{m}$ accuracy up to 32Km and to 12Km for NATO targets. Precise distance readings allow for quick assessment of area size and target location.

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.

Applications

- Joint Fires Observation
- Border Security
- Reconnaissance
- Joint Terminal Attack Coordination
- Infrastructure Surveillance
- High-Risk Area Monitoring



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THERMAL IMAGING:

Sensor Type	640 X 512 MWIR
Spectral Response	3-5µm
Thermal Sensitivity	<28mK
Horizontal Field of View	14,5° to 2.1° continuous

INTEGRATED DAY CAMERA:

Sensor Type	1/2.8" CMOS 1920x1080
Optical Zoom	Continuous 30x
Horizontal Field of View	60.5° to 2.3° continuous

INTEGRATED LASER RANGEFINDER:

Range (max.)	32Km (up to 12km for Standard NATO targets)
Accuracy	0.5m
Laser Safety	Class 1

DIGITAL MAGNETIC COMPASS - DMC:

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

GPS:

Accuracy	<1.8m
Cold Start	30s

POWER:

Battery Type	4 x 21700 Li-ion
Run Time	4 hours
External Power	12-24 VDC / 220-240 VAC

ENVIRONMENTAL:

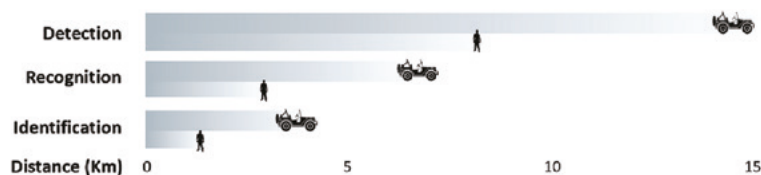
Operating Temperature Range	-40°C to +43°C
Storage Temperature Range	-45°C to +65°C
Standard	MIL-STD-810G, MIL-STD-461F
Waterproof	IP67

STANDARD FEATURES:

Eyepiece Display.	Dual Binocular Display 720p
Digital Zoom	x1, x2, x4
Refresh Rate	60 Hz standard
Image Capture I Video Recording	Captures and stores video in integrated microSD Card
Region of Interest	Available
Color Palette	Black-Hot, White-Hot, Night vision, Rainbow, Red-Hot
Automatic Gain Control (AGC)	Available

OPTIONAL:

Wi-Fi and RF	Available upon request
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*According to Johnson's Criteria & STANAG 4347. Targets refer to Human (1.7m x 0.8m) & Vehicle (2.3m x 2.3m)