

Handheld Thermal Monocular with Wi-Fi

This handheld thermal monocular connects to a mobile app via Wi-Fi for remote control, synchronous display, and photo/video capture. It provides superior imaging, longer detection range, and advanced algorithms for enhanced target acquisition.



Overview

Advanced Thermal Imaging for Professionals

This handheld thermal monocular is designed for superior target detection in challenging environments, including complete darkness, smoke, and fog. Featuring advanced thermal imaging algorithms and a high-sensitivity detector, it allows for precise observation and identification. With its ergonomic, rubberized design and IP66-rated durability, it is built to withstand rigorous use in the field while remaining comfortable for extended scanning sessions.

Imaging Performance

Detector Resolution	400 x 300 pixels
Pixel Pitch	17 μ m
Frame Rate	50 Hz
Color Palettes	White Hot, Black Hot, Red Hot 1, Red Hot 2, Red Hot 3, Highlight

Optical Specifications



Features intuitive controls, diopter adjustment, and standard interfaces for external display and power.

Digital Zoom

- x2
- x4

Display Resolution	720 x 540 (0.2" LCOS)
Diopter Adjustment	4 D

Connectivity & Power



Wi-Fi remote control

Connect to mobile apps via Wi-Fi for remote control, synchronous display, and media capture.

Battery Life

5 h

Operating Time

Interfaces

Micro USB • Analog Video Output (MCX)

Wi-Fi Connectivity

Yes

Environmental & Physical



Ergonomic, pocket-sized design allows for long-term scanning without arm fatigue.



Rubberized exterior provides protection against rain, dust, and shock.

Ingress Protection

IP66

Operating Temperature

-10°C to 50°C

Drop Test

1m

Detection Capabilities

Detection Range Table

Target	Detection Range	Recognition Range
Human (1.8m x 0.5m)	500-700m	300-350m
Vehicle (2.3m x 2.3m)	1300-1700m	500-700m