

JH-M9L

Monocular Rangefinder Thermal Imager

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The M9L handheld ranging infrared observation device integrates an infrared imaging module and an OLED display component. Equipped with a 640×512 resolution, $12\mu\text{m}$ pixel long-wavelength uncooled infrared detector, it can conduct observations in low-visibility environments such as darkness, fog, and smoke. It supports real-time image storage for easy data preservation on-site. The device integrates laser ranging and a monocular infrared observation optical system, offering multiple functions in one unit. The integrated body reduces carrying burden and improves on-site information analysis efficiency; it features intelligent power management, ensuring stable operation even with reverse battery connection. The compact and lightweight design is dustproof, waterproof, shockproof, and interference-resistant, making it suitable for all-weather outdoor observation missions.

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Detector	Uncooled
Work band	8~14um
Pixel pitch	12um
Resolution	640x512
Startup time	≤9s@25℃
Focal length	50mm(fixed)
F#	1.0
Focusing mode	Manual
FOV	8.78° x7.03°
Frame rate	50Hz
NETD	≤50mK
OLED	1920x1080, coloring OLED
Dioptr	-4~+4
Battery	4 pcs of 16340 battery, install randomly

Working time	≥4hours Continuous
	Support external power supply
Wavelength	900-908nm
Measuring range	5-1200m
Measuring accuracy	± 1m
Precision	≥98%
Frequency	3Hz
Power supply	3.3V±0.3V
Host weight	1kg(with battery and eye cover)
Protection	IP67
Working temperature	-40℃~—+55℃
Storage temperature	-55℃~+70℃
Memory capacity	64G