

JH-M7L

Monocular Rangefinder Thermal Imager

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The M7L series laser ranging thermal imaging observation scope is a newly developed ranging infrared observation device designed for complex environments and all-weather, day-and-night long-distance exploration needs. It is an uncooled infrared observation instrument. The device integrates target observation and distance measurement functions, suitable for various field and park patrol operations. Equipped with a high-performance uncooled infrared detector and a manually focused optical lens, the product provides clear and detailed imaging. The entire unit is compact and lightweight. It supports one-button operation, offers excellent stealth during silent observation, has a robust and stable structure, reliable operation, and convenient maintenance. It is widely applicable to scenarios such as wildlife protection, bird ecology observation, field environmental surveys, factory/scenic area boundary inspections, and outdoor evidence collection.



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Model	M7L-3	M7L-6
Sensor		
Sensor type	Vox	
Resolution	384x288	640x512
Pixel pitch	12um	
Working band	8~14um	
NETD	≤30mk@25℃,f#1.0	≤40mk@25℃,f#1.0
Frame rate	50Hz	
Objective lens		
Focusing method	Manual	
Lens	35mm	50mm
FOV	7.5° x5.7°	8.8° x7.0°
Magnification	3.3x	2.8x
Focusing distance	1m~infinity	5m~infinity
Detect distance	Human:3300m	Human:3300m
	Vehicle:8750m	Vehicle:8750m
Recognize distance	Human:826m	Human:1180m
	Vehicle:2188m	Vehicle:3125m
Laser rangefinder		
Measuring range	10~1200m(905nm)	
Eyepiece		
Exit pupil distance	18mm	
Diopter	-5D~+5D	
Display		
Type	Organic light-emitting diodes	
Resolution	1024x768	
Dimension	0.39inch	

Interface		
Language	English	
Continuous digital zoom	1x/2x/4x/8x	
Color palette	White hot, black hot, fire hot, rainbow, iron red	
Image taking	Support	
Video taking	Support	
PIP	Support	
Wifi	Support	
CVBS	Support	
Heat trial	Support	
Storage		
Memory	Built-in 16G EMMC	
Image/video format	JPG/MP4	
Interface		
USB	Charge/ video and image output	
Battery		
Battery	2pcs of 18650 lithium battery, rechargeable	
Working time	≥9hours	≥9hours
Environment		
Operating temperature	-40℃~60℃ 24hours	
Storage temperature	-40℃~65℃	
Protection	IP67	
Compact resistance	1200G	
Dimension/weight		
Dimension	254x91x64mm	269x91x64mm
Weight	893g	967g