



RLS M series

Multifunctional thermal imaging night vision instrument

RLS 锐莱司

Seismic HD Better Use



Product introduction

RLS M series thermal imager is an economical professional grade civil infrared thermal imager, using $384 \times 288/640 \times 512$ high sensitivity vanadium oxide detector, imaging effect is excellent, strong detection ability. The machine is compact in design, compact in size, dustproof and waterproof, with high strength impact resistance, fear of cold and heat, strong and durable, suitable for all kinds of harsh environment.



Product characteristics

- Multiple resolution options, $12\mu\text{m}$ high sensitivity vanadium oxide unrefrigerated detector
- Support shutter correction technology, always maintain clear picture quality
- Single battery extra long standby $\geq 8\text{H}$
- $\text{NETD} < 35\text{mk}@F1.0, 25^\circ\text{C}$
- Support scene adjustment, fast target identification
- Real-time image output, support CVBS analog video output, can be connected to the external screen
- The viewfinder is a colorful $0.39''$ OLED
- Strong environmental adaptability, high thermal impact resistance, vibration resistance
- Support rich image adjustment function, support menu function
- 35/50mm Two lens sizes are available
- Super high base magnification, up to 8 times digital zoom
- Multifunctional fixture, suitable for 11 ~ 20mm wide and narrow universal
- It is a lightweight and strong body made of integrated aluminum magnesium alloy CNC technology and has excellent heat dissipation performance
- One 18500 battery with replaceable battery design

Technical specification

Product model	M35	M35LRF	M50	M50LRF	L50LRF
Detector					
Detector type	Vanadium oxide uncooled detector				
Response band	8 ~ 14 μ m				
NETD	<35mk (@25°C, F#=1.0)				
Infrared resolution	384 × 288@12 μ m				640 × 512@12 μ m
Frame frequency	50 FPS				
Lens					
Focal length	35mm	35mm	50mm	50mm	50mm
Field Angle	7.5 ° × 5.7 °	7.5 ° × 5.7 °	5.3 ° × 4.0 °	5.3 ° × 4.0 °	10.8 ° × 8.1 °
Base multiple	3 ×	3 ×	4 ×	4 ×	2.8 ×
Focusing	Manual focusing				
Display system					
Display screen	Color 0.39 "OLED screen, 1024 × 768				
Video output	The CVBS format supports external videos				
Image function					
Correction mode	Background correction				
Non-uniformity correction	Shutter correction technique				
Brightness / Contrast	Support adjustment, level 1 to 5 adjustable				
AGC mode	automatic				
Noise reduction	support				
Electron amplification	× 1, × 2, × 4, × 8				
Pseudo-color pattern	Black heat, white heat, red heat, fusion				
Bad spot repair	support				
Video output interface	Type C				
Startup speed	< 5s				
Parameter saving	support				
Cross cursor	5 kinds				
MENU	support				
Continuous laser ranging	/	1200m	/	1200m	1200m
Laser indicating function	/	support	/	support	support
Power supply system					
Battery	1 18500 battery, rechargeable				
Working time	Continuous working time of a single battery \geq 8H, replaceable battery				
Other					
Operating temperature	-40°C ~ 60°C, <90%RH				
Dustproof / Waterproof	IP67				
Dimension (mm)	\leq 180 × 65 × 53	\leq 180 × 85 × 53	\leq 180 × 65 × 53	\leq 180 × 85 × 53	\leq 180 × 85 × 53
Standard configuration	Host × 1、Picatini rail × 1、Portable bag × 1、Charger × 1、18500 Battery × 2、Specification × 1、Warranty card × 1				

Detection distance / Identification distance (Detection:  ; Identification: )						
Reference object		M35	M35LRF	M50	M50LRF	L50LRF
People			1600m		1900m	3800m
			640m		760m	1520m
Pig / Deer			1472m		1672m	3344m
			589m		669m	1338m
Rabbit			405m		487m	974m
			162m		195m	390m
Chicken			302m		356m	712m
			121m		143m	286m
Sparrow			167m		195m	390m
			67m		78m	156m