

# SENTINEL MLRF

Multi-Functional LONG RANGE THERMAL BINOCULAR



Display

The SENTINEL MLRF is the most effective handheld multi-functional thermal laser rangefinder binocular available. It serves a wide variety of tactical, law enforcement, border security and special forces applications. SENTINEL MLRF features various image observation modes, ultra-long-range observation, precise target positioning and guidance with eye-safe laser rangefinder and digital magnetic compass, image capture, video recording, and real-time data transmission, and efficiently aids users in conducting on-site investigations, target searches, and information feedback tasks. Data is displayed in the field of view and can be exported to a variety of peripheral devices.

Infrared	sensors	
Detector type		Vox
Resolution (pixels)		640 x 512
Spectrum (µm)		8-14
Pitch size (µm)		12
NETD (mK) @F1.0		<40
Frequency (Hz)		50
Objective Focal Length (mm)		50 @F1.0
Field of View (°)		8.8 x 7.0
Non-uniformity correction		Auto
Detection/Recognition of tank target (km)		6.3/1.6
Detection/ Recognition of human target (km)		2.3/0.6
Digital Noise Reduction (DNR)		Yes
Wide dynamic range WDR		Yes
Video		PAL/NTSC
Zoom		1-4x (1-8x optional)
Day channel		
Objective Focal Length (mm)		35
Eyepiece Focal Length (mm)		13.9
Resolution (pixels)		1280x1024
Frequency (Hz)		30
Field of View (°)		12.4 x 7.0
Zoom		1-4x (1-8x optional)
LRF		
Laser type		Semiconductor laser, Class I
Laser wavelength (µm)		1,550
Detection range (m)		20 - 7,000, (20 - 10,000 Optional)
Ranging accuracy (m)		±2
Laser pointer		
Wavelength (nm)		850 (IR)
GPS		
Type		GPS, Galileo (GNSS)
Target locating error		±5M (target<1km)
Format		Lat/Long and MGRS

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Fusion	
Combining day and thermal image	Yes
Fusion modes	At least 3 modes of image combining
Magnetic compass	
Azimuth resolution/accuracy	1° / 1°
Elevation resolution/accuracy	1° / 1°
Elevation range	+/- 80°
Mechanics and environmental	
Interpupillary distance (mm)	64
Eyepiece diopter adjustment (dpt)	±5
Internal video & photo recording	Yes
Connectivity	Power input, RS232 (remote control), USB (output videos and images)
Continuous working time (hours)	5h (GPS disabled, no LRF measurements) 4h (All functions)
Dimensions with eyepiece (mm)	160 x 190 x 85
Weight without battery (kg)	1.45
Power	Internal battery: rechargeable 4x18650, DC power supply 12VDC
Temperature range (°C)	-30 to +60
Storage temperature range (°C)	-35 to +65
Waterproof	MIL STD 810 (1m for 30 min)
Mechanical interface/mounts	1/4" tripod mount

## DELIVERY SET

Supplied with the following standard accessories:

- Soft carrying case
- 4x 18650 batteries
- Li-ion battery USB charger
- Hard carrying case
- Operation manual
- Multi-use cable

