

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 binoculars use a high-resolution uncooled thermal sensor to perceive differences in the thermal signature of objects within the field of view. The unit can detect objects at remote distances 24 hours a day, through smoke, fog or camouflage. The unit's eye-safe laser rangefinder and digital magnetic compass instantly measure distance, azimuth and inclination of far-off targets. Data is displayed inside the field of view and can be exported via the computer output to a variety of peripheral devices.

Infrared sensor	
Detector type	Vox
Resolution [pixels]	640 x 512
Spectrum [μm]	8-14
NETD (mK) @F1.0	<40
Pixel size [μ]	12
Objective Focal Length (mm)	50
Field of View - H (°)	8.8
Field of View - V (°)	7.0
Eye Relief (mm)	26
Non-uniformity correction	Manual / Auto
Image processing	Digital image detail enhancement (DDE)
Zoom	1-8x
Optional 2x IR lens	+
CMOS Sensor	
Resolution	1280 x 1024
Wavelength (nm)	400 - 1100
Objective Focal Length (mm)	35
Field of View - H (°)	12.5
Field of View - V (°)	10.0
GPS	
Type	Built in GPS, GLONASS, BeiDou (BDS)



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LRF	
Laser type	Semiconductor laser, Class I
Laser wavelength (µm)	1,550
Range Capability	10 to 10,000m
Range Capability (NATO TARGET 2.3m x 2.3m)	5,000m
False reading rate (%)	<1
Multiple target ranging	1 target
Magnetic compass	
Azimuth Angle: Handheld accuracy	±0.6° (±10mil)
Azimuth Angle: Tripod mounted accuracy	±0.4° (±7mil)
Inclination Accuracy	±0.2° (±3mil)
Inclination Angle	85°
Mechanics and environmental	
Eyepiece diopter adjustment (dpt)	±4
Connectivity	RS-232, USB 2.0, VIDEO OUTPUT PAL, WIFI
Continuous working time (hours)	5
Dimensions with eyepiece (mm)	185 x 190 x 85
Weight with battery (kg)	1.5
Battery Type	18650 Lithium rechargeable battery 4x
External Power	10 - 36V DC
Waterproofing	MIL-STD-810, 1m for 30min (IP67)
Temperature range (°C)	-40 to +60
Mechanical interface/mounts	1/4" tripod mount
Display	
Display Type	Color OLED 800 x 600
Units of measurement	Distance in meters, Azimuth and Inclination in mils or degrees
DRI NATO Target 2.3m x 2.3m	
DRI Fusion	9000m/5400m/3600m
Thermal DRI	3500m/1500m/750m
LLCMOS (Day)	7000m/5000m/3000m
LLCMOS (Night)	4500m/2500m/1200m
DRI Human Target 1.7m x 0.5m	
DRI Fusion	4000m/2400m/1400m
Thermal DRI	1500m/750m/400m
LLCMOS (Day)	2800m/1800m/1200m
LLCMOS (Night)	1800m/1000m/500m

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

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