

# SENTINEL UMLRF

COOLED THERMAL IMAGING BINOCULAR



Display

The SENTINEL UMLRF is the most effective cooled handheld multi-functional thermal laser rangefinder binocular available. It serves a wide variety of tactical, law enforcement, border security and special forces applications. SENTINEL UMLRF binoculars use a high-resolution cooled 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.

Thermal Channel	SENTINEL UMLRF
Type	MCT Cooled
Resolution (pixels)	640 x 512
Spectrum (µm)	3 to 5
Pixel Pitch (µm)	15
NETD (mk)	≤25
MRTD (k)	≤0.2
Focal Length (mm)/F#	30 to 240/F4
Field of view (°)	18.2x14.6 to 2.3x1.8 (±5%)
Human Detection (km)	> 6.0
Human Recognition (km)	> 3.0
Vehicle Detection (km)	> 9.0
Vehicle Recognition (km)	> 5.0
Zoom	1x - 8x
Daytime Channel	
Sensor	1/2" CMOS
Resolution	1920x1080
Focal Length (mm)	6 to 216
Field of view (°)	W: 60 to 233 T: 2.4 to 1.2
Zoom	36x
Functionality	
Gain/Brightness	Manual/Auto
Calibration	Auto calibration when camera startup Manual calibration during camera operation
Image enhancement	Yes
Image Filter	Yes
Polarity	Hot black/Hot white
Focus	Motorized

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Storage function	64GB Built-in card (bmp & AVI)
Storage capacity	Image : ≥ 10000 , Video : ≥ 4 hours
<b>Positioning system</b>	
Type	GNSS
Accuracy (RMS)	Lng & Lat: 5m , Elevation: 10m
Target location	Yes
<b>Digital Compass</b>	
Horizontal range (°)	360
Pitching (°)	± 40
Angle accuracy (RMS)	Azimuth: 0.6° , Pitch angle : 0.5°
<b>Laser Range Finder</b>	
Laser Band (nm)	1535 eye-safe
Ranging	50m~8km
Accuracy	≤2m (Target > 50m)
Accurate probability	≥98%
Frequency	1 Hz
<b>Environmental Protection</b>	
Working Temperature (°C)	-40 to +60
Storage Temperature (°C)	-40 to +65
Protection class	IP67
<b>Power</b>	
Type	Rechargeable Li-ion Battery
Working time	> 5 hours (@25°C)
<b>Physical Parameters</b>	
Display mode	OLED
Resolution	1024x768
Eyepiece diopter	-4 to +4
Weight (kg)	≤2.8
Dimension (mm)	360x230x115
External Power	Yes
Video output	PAL
Data transmission	USB
WIFI	Built-in
Communication port	RS232
Tripod Interface	1/4"

## DELIVERY SET

Supplied with the following standard accessories:

- Soft carrying case
- battery
- Video cable
- USB cable
- Lens cover
- Lens cleaning cloth
- Operation manual

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