

# Fusion thermal binocular



The fusion thermal binocular integrates low light CMOS, infrared thermal, digital compass into one body. It is portable, light weight and compact, which can be used in different kind of environment (day and night). It can be used for tactical surveillance, monitor and identify the camouflaged target in barrier patrol, forests fire fight, law enforcement, anti-drugs,etc.

## Features:

1. No shutter technology, can be used after it is switched on;
2. Thermal, low light CMOS and fusion of thermal and low light CMOS;
4. Photos and video recording;
5. Built-in reticle for tracking the target;
6. Built-in Laser Rangefinder (optional) , up to 1500 meters;
7. Motorized focus (far and near);
8. 5 X optical magnification, 2x, 4Xzoom;
9. Built-in E-compass;

- 10. Display in Three-dimension;
- 11. GPS, WIFI with remote control APP
- 12. Stadiametric rangefinder (optional)
- 13. Optical magnification: 5X

## Specification:

### Distance

Target	Minimum distance of identification		
	Low light	Thermal	Fused
1.7m moving soldiers	500m	850m	850m
2.3m*2.3m tank	700m	1200m	1200m

### Low light

Detector	Low light CMOS
Resolution	1280×768
Pitch	6μm×6μm
Wave band	350~1000nm
Focus	35mm, 5X fixed focus in low light
FOV	12.4°×7°
OLED	1280X768

### IR

Detector	VOX
Resolution	640×512
Pitch	12μm
Waveband	7.5~13.5μm
NETD	<50mk @f/1.0
Focus length	50mm f/1.0
FOV	12.4°×9°
Focus	Motorized in IR mode;

## Battery

Recharging lithium battery	16.8V, 8800mAh, 4 pieces of 1865
Power	6W
Working hours	> 4h

## Interface

Video output	PAL
USB interface	Picture and video output
Serial output	RS232, commissioning the device
External battery	DC12V 1A

## Environment

Working temperature	-40°C ~ +60°C
Storage temperature	-45°C ~ +65°C
shock	≤30g
Protection	IP 67: Raining, 1.7mm/min , Rain drop: 0.5~4.5mm
Dimension	188mm×153mm×82mm (including the eyeshield)
Weight	<b>1265g (including the battery and belt)</b>
Stability	Passed the test of vibration (5~55~5Hz), accelerated speed:1.5g.