

THERMAL FUSION BINOCULAR



Key features

- It has the advantages of low light and thermal imaging. There are many observation modes to choose from, which can better meet the observation needs of different scenes and different people;
- The observed information is more abundant, the details are more perfect, the scene is easier to understand, and the detection distance is more effectively detected;
- The target of observation is more obvious, which is better for detecting targets faster and more accurately in the context of hidden camouflage, especially in the fusion color night vision mode;
- Observing the image is more natural and more in line with the habits of the human eye, which can significantly improve the target recognition performance of the human eye and reduce fatigue;
- Meet the needs of all-weather operations, can be observed in the dark, completely dull closed environment and harsh weather conditions;
- Small size, light weight, comfortable and convenient to use;
- Good environmental adaptability and meet the relevant requirements of GJB150.

Main applications

This product is suitable for special forces such as public security, armed police, military, etc., to achieve effective observation of specific areas or targets around the clock, to quickly identify, identify and track the target of concern; also applicable to the fire, power and petroleum industries, to achieve specific areas or Day and night monitoring of the equipment.

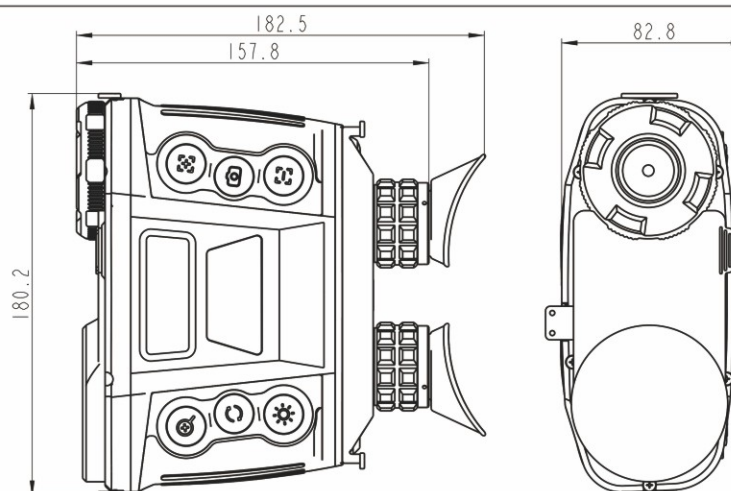
Technical specifications

Item	Main technical data			Remark
Infrared lens	Focus	50mm		
	Fov	12.4°×7°		
Infrared sensors	Detector type	Vox		
	Resolutions	640x512 12um		
	Wave	8 - 14 μm		
	NETD	≤35Mk		@F1.0,300K
	Frequency	50Hz		
	Signal to noise ratio	56DB		
	Non-uniformity correction	Manual/Auto		
	Image Processing	DDE		
	Zoom	1~8X		
Low light lens	Focus	35mm		
	Fov	12.4°×7°/8.7°×5°		
	Sensor type	CMOS sensor		
Low light detector	type	6um		
	Pixels	1280x720		
	Dynamic Range	76DB		
	Frequency	50Hz		
	Signal to noise ratio	Illuminance 10 ⁻¹ lx 60db	Illuminance 10 ⁻² lx 55db	Illuminance 10 ⁻³ lx 45db
LRF	Laser type	A semiconductor laser		
	Laser wave	1535nm		
	Detect range	10m—5km		
	Accuracy	±1m		
	Precision rate	≥98%		

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Item	Main technical data		Remark
Compass	Compass	Azimuth accuracy 1° Pitch angle accuracy 1°	
Image display	Mode	OLED HD binocular display	
	Resolution	1024x768	
	Colors	White heat / black heat / low light / fusion picture-in-picture display / fusion color / fusion gray / fusion black and white	
Storage	Built-in storage	32G	
	Video format	AVI	
Physical characteristics	Continuous working time	5 hours	
	Total weight	1.3kg(without battery)	
	Size	182.5mmX180.2mmX82.8mm(LxWxH) Contains eye mask	
Interface	Power in	DC12V	
	Video output	PAL	
	Data interface	USB2.0	
	Control interface	RS232	Can use RS232 to control all functions of Device
Environmental indicators	Work Temperature	-40℃+60℃	
	Storage temperature	-50℃+70℃	
	humidity	≤90%	
	Seal	IP67	
Optional Function	GPS WIFI		

size drawing



Fusion image at night



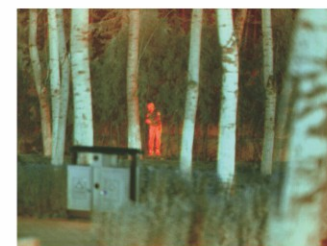
Shimmer mode



Thermal mode



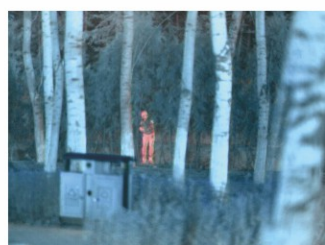
Fusion black and white mode



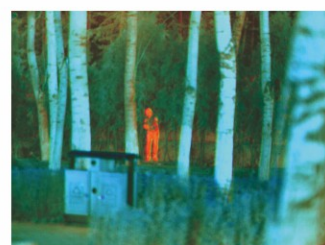
Fusion color mode



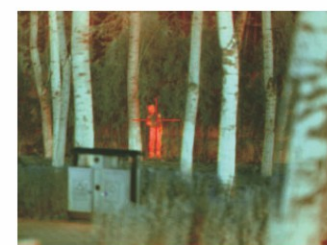
Fusion color mode



Fusion color mode



Fusion color mode



Target identification function