

Detect The Infrared Radiation (heat) Of The Object And Convert It Into A Visible Image

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: DT-05
- Minimum Order Quantity: 1
- Price: Pricing is negotiable based on order quantity
- Delivery Time: 10 work days
- Payment Terms: L/C,T/T
- Supply Ability: 1000units per month



Product Specification

- Resolution: 320 × 240 Pixels (after AI Enhancement)
- Pixel Improvement: 50%
- 10mm Lens Detection Range: Up To 1000 Meters
- 15mm Lens Detection Range: Up To 1500 Meters
- Working Principle: Passive Infrared Thermal Imaging Technology
- Protection Rating: IP66
- Highlight: handheld drone heat detector,
infrared radiation drone detector,
thermal imaging handheld detector

Product Description

DT-05 Detecttheinfrared Radiation (heat)of The Objectand Convertitinto A Visible Image

1, Product Overview

Infrared thermal imagers are professional-grade night vision devices that adopt advanced infrared detection technology. They can detect infrared radiation (heat) emitted by objects and convert it into clear visible images. This product integrates the latest AI image processing algorithms and highly sensitive infrared detectors, providing users with excellent night vision capabilities and thermal imaging effects.

This product is specially designed for professional users who need to observe and detect in low-light or completely dark environments. Whether it is for security monitoring, search and rescue, field operations, or military applications, it can provide clear and reliable thermal imaging images, helping users accurately identify targets in various complex environments.

2, Specification

Parameter	Specification
Product Name	Infrared Thermal Imager
Product Type	Professional Night Vision Device
Working Principle	Passive Infrared Thermal Imaging Technology
Detection Band	8-14μm Long Wave Infrared
Resolution	320 × 240 pixels (after AI enhancement)
Original Resolution	256 × 192 pixels
Pixel Improvement	50%
10mm Lens Field of View	Approximately 25° × 19°
15mm Lens Field of View	Approximately 17° × 13°
10mm Lens Detection Range	Up to 1000 meters
15mm Lens Detection Range	Up to 1500 meters
Thermal Sensitivity	≤50mK
Image Frame Rate	30Hz
Display Type	High-Resolution OLED
Screen Size	1.54 inches

Display Modes	Multiple pseudo-color modes (White Hot, Black Hot, Red Hot, Rainbow, etc.)
Digital Zoom	2×, 4×
Device Dimensions	120mm × 60mm × 50mm
Weight	Approximately 280g (without battery)
Operating Temperature	-20°C to +60°C
Protection Rating	IP66
Operating Voltage	3.7V DC
Battery Type	Rechargeable Lithium Battery
Battery Capacity	3000mAh
Continuous Working Time	Approximately 8 hours
Charging Time	Approximately 2.5 hours
Data Interface	USB-C
Video Output	HDMI Output Support
Storage Function	Maximum 128GB microSD Card Support
WiFi Connectivity	2.4GHz WiFi Support
Bluetooth Connectivity	Bluetooth 5.0

3, Features

The infrared thermal imager integrates advanced thermal imaging technology and adopts a high-sensitivity infrared detector with a thermal sensitivity of ≤50mK. It can clearly detect tiny temperature differences and provide excellent imaging effects even in completely dark environments. Equipped with a built-in AI image processing algorithm, it intelligently upgrades the original 256×192 resolution to 320×240, with a 50% increase in pixels, significantly enhancing the clarity and detail performance of the image. To meet the needs of different environments, the device supports multiple pseudo-color display modes such as white hot, black hot, red hot, and rainbow. Users can choose the most suitable display mode according to the actual scene to ensure the accuracy of target recognition.

In terms of detection capability, the device has ultra-long-distance detection capability and offers two lens options: 10mm and 15mm, to meet observation needs at different distances. When equipped with a 10mm lens, the detection distance can reach 1000 meters; when a 15mm lens is used, the detection distance is further extended to 1500 meters, far exceeding the

performance level of similar products. It is particularly worth mentioning that the device has an outstanding ability to recognize biological signs, which can clearly display the characteristics of organisms and greatly improve the accuracy of target recognition, which is of great value in applications such as search and rescue and security monitoring.

Considering the diversity of practical applications, the infrared thermal imager adopts a flexible installation method, which can be easily installed on various carriers such as helmets, arms, and tripods, adapting to different usage scenarios and operational needs. The device adopts a lightweight design, weighing only about 280g, so even long-term wearing will not cause a significant burden. At the same time, the ergonomic grip design ensures comfortable operation, allowing users to maintain a good operating experience during long-term work.

The intelligent functional features are another highlight of this product. It supports 2× and 4× digital zoom functions, allowing users to zoom in on image details as needed to achieve clearer observation effects. The device has built-in photo and video recording functions, with a maximum storage capacity of 128GB, which can record important observation data and image information at any time. Through the WiFi connection function, users can transmit real-time images to mobile phones or tablets to realize remote monitoring and data sharing. In addition, the built-in motion detection function can automatically identify target movement, providing a more intelligent solution for security monitoring.

To ensure reliable operation in various complex environments, the infrared thermal imager has all-weather working capability, with an operating temperature range from -20°C to +60°C, and can adapt to extreme temperature changes. The IP66 protection level design enables it to have excellent dustproof and waterproof capabilities, and it can work normally in various harsh environments. The low-power design ensures that the device has a continuous working time of up to 8 hours, fully meeting the needs of long-term operations without frequent battery replacement.

As a professional-grade device, the infrared thermal imager is designed and manufactured in strict accordance with military equipment standards, with excellent reliability and stability. The device has strong resistance to electromagnetic interference and can maintain stable performance in complex electromagnetic environments. All products have undergone strict environmental testing and reliability verification to ensure stable and reliable service under various harsh conditions, providing strong technical support for users' professional applications.



4, Application Scenarios



5, Certification Certificate



6, Company profile

Chongqing Miao Yitang Technology Co., Ltd. is a specialized company engaged in anti-drone and unmanned intelligent defense management. With the technical support from the AI Internet of Things Research Institute of the Chinese Academy of Sciences and collaborations with multiple intelligent AI companies, the company has established research laboratories for AI unmanned field products, accumulating a variety of technical patents.

The company's products are widely applied to unmanned automatic management solutions for various defense and perimeter areas, including AI anti-drone systems and AI unmanned vehicle patrol systems. These systems integrate with multiple technologies such as optoelectronics, radar, vibration, thermal imaging, facial recognition, and radio frequency management, truly achieving a 24-hour uninterrupted anti-drone defense and ground perimeter defense warning system. This allows for cost savings for clients, reduction in human resource allocation, and

ensures the safety of clients' lives and property. The outstanding security system has won the company an excellent reputation and created higher value for its partners.



7, Customer Service

- 1). We offer 24 hours service after sales
- 2). If there are any usage or quality issues with the product, we provide online technical support to diagnose the cause of the problem.
- 3). Should you find the products unsatisfactory, kindly return it to us within a period of 3 months from the date of dispatch. Upon receipt and inspection, should the products be found to be free from any damage attributable to human factors, a full refund will be granted. Alternatively, we can engage in discussions to amend the product and subsequently reship the product to you.

CUSTOMER SERVICE

- * Fast and patient communication: professional sales reply immediately
- * Fast delivery: usually 2-7 days
- * Flexible Safe shipping: fast by air or sea with cheap freight
- * Customer-friendly: complete user manual and exact video training provided
- * After sales service: one year warranty and life time technical support



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