

Infrared Technology Detects Object Heat Radiation Processes Thermal Signatures And Converts To High-resolution Visible Images For Temperature Visualization

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 thermal detector,
infrared heat radiation detector,
high-resolution thermal imaging drone 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 utilize advanced infrared detection technology. These devices are capable of detecting the infrared radiation (heat) emitted by objects and converting it into distinct visible images. This product incorporates the latest AI image processing algorithms and highly sensitive infrared detectors, offering users outstanding night vision capabilities and thermal imaging effects.

This product is specifically engineered for professional users who are required to conduct observations and detections in low-light or completely dark environments. Whether it is for security surveillance, search and rescue operations, field missions, or military applications, it can provide clear and reliable thermal imaging visuals, assisting users in accurately identifying targets within diverse 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 tech with a high-sensitivity detector (thermal sensitivity ≤50mK). It detects tiny temperature differences and offers great imaging in the dark. An AI algorithm upgrades 256×192 resolution to 320×240 (50% more pixels), enhancing clarity. It supports multiple pseudo-color modes for target recognition.

It has ultra-long-distance detection with 10mm (1000m) and 15mm (1500m) lenses, and excels in biological sign recognition, valuable for search and rescue and security.

Flexibly installable on helmets, arms, tripods, it's lightweight (280g) with an ergonomic grip. Its intelligent features include 2× and 4× digital zoom, photo/video recording (up to 128GB), WiFi for remote monitoring, and motion detection.

It has all-weather operation (-20°C to +60°C), IP66 protection, low power consumption (8-hour runtime), and is made to military standards, resistant to electromagnetic interference, having passed strict tests for reliable service in harsh conditions.



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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