

Advanced Thermal Technology Captures Object Infrared Radiation Processes Data Via Sensors, Generating Clear Visible Images For Temperature Analysis

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 radiation sensor drone detector,
temperature analysis drone imaging device

Product Description

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

1, Product Overview

Infrared thermal imagers are professional night vision devices using advanced infrared detection tech. They detect objects' infrared radiation (heat) and convert it to visible images. Incorporating latest AI image processing algorithms and highly sensitive detectors, they offer great night vision and thermal imaging effects.

Designed for pros doing observations in low - light or dark settings, like security surveillance, search and rescue, field missions, or military use, they provide clear thermal imaging visuals to help accurately identify targets in 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

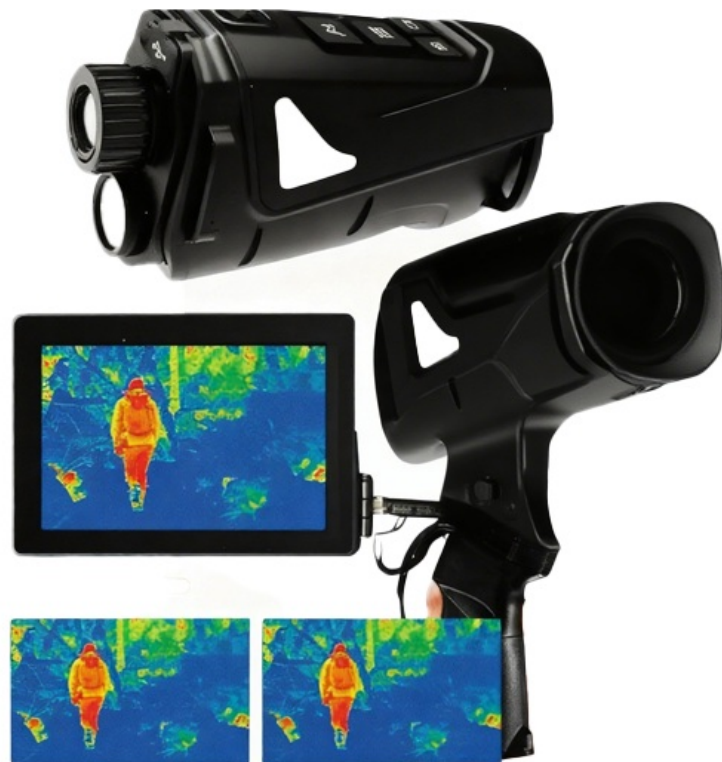
The infrared thermal imager combines advanced technology with a high-sensitivity detector (thermal sensitivity ≤50mK). It is capable of detecting minute temperature differences and provides excellent imaging capabilities even in low-light conditions. An AI algorithm upgrades the 256×192 resolution to 320×240 (a 50% increase in pixel count), thereby enhancing the clarity of the images. It supports multiple pseudo-color modes to facilitate target recognition.

This thermal imager features ultra-long-distance detection capabilities, with 10mm (effective up to 1000m) and 15mm (effective up to 1500m) lenses. It demonstrates outstanding performance in biological sign recognition, making it highly valuable for search and rescue operations as well as security applications.

It can be flexibly installed on helmets, arms, or tripods. Weighing only 280g, it is lightweight and designed with an ergonomic grip for ease of use. Its intelligent features include 2× and 4× digital zoom functions, photo and video recording capabilities

(with a maximum storage capacity of 128GB), WiFi connectivity for remote monitoring, and motion detection functionality.

The infrared thermal imager is designed for all-weather operation, with an operating temperature range of -20°C to +60°C. It has an IP66 protection rating, ensuring reliable performance in various environmental conditions. It also features low power consumption, offering up to 8 hours of continuous runtime. Manufactured to military standards, it is highly resistant to electromagnetic interference and has successfully passed rigorous tests, guaranteeing its dependability in harsh operating environments.



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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