

Advanced Five Optical Channels Binoculars Integrate Thermal Imaging Low-light Vision And Laser Technologies For 24/7 Observation Applications

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: TOM-B
- 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

- Storage: 64G
- Ocular Lens Diopter: -4~+4
- Weight: 2.1 Kg
- Operating Time: ≥8 H
- Operating Temperature: -40°C~+55°C
- Waterproof Grade: IP67
- Storage Temperature: -55°C~+70°C
- Wireless Transmission: WIFI
- Highlight: thermal imaging binoculars for drone detection ,
low-light vision binoculars with laser ,
handheld drone detector with thermal imaging

Product Description

TOM-B Five Optical Channels Multi-function Binoculars

1, Product Overview

The Five Optical Channels Multi - function Binoculars (Tom - B) represent a cutting - edge integration of advanced optical technologies within a compact and portable observation device. This meticulously designed system incorporates five distinct optical channels, namely infrared thermal imaging, low - light imaging, visible light imaging, laser rangefinder, and laser pointer, along with integrated location services, a digital magnetic compass, and image/video recording functions.

Designed to function continuously in the most challenging environments, this multi - functional binocular offers exceptional observation capabilities both during the day and at night. Consequently, it has become an indispensable tool for security professionals, law enforcement officials, military personnel, and outdoor enthusiasts.

The system's ergonomic design ensures comfortable and extended use. Moreover, its durable construction meets strict environmental standards, allowing operation in extreme temperatures, wet conditions, and under rough treatment.

Featuring intuitive controls and multiple connectivity options, the Five Optical Channels Multi - function Binoculars deliver superior performance and versatility for a wide range of observation and surveillance applications.

2, Specification

Infrared Thermal Imaging	Resolution	640×512, 12 μm
	Spectral Band	8~14 μm
	Field of View	6.1°×4.8°
Low-Light Imaging	Resolution	750×600
	Low Illumination Capability	0.001 lux
	Field of View	6.8°×5.5°
Visible Light Imaging	Resolution	4.6 megapixels
	Field of View	4.6°×3.7°
Laser Rangefinder	Wavelength	1535 nm
	Maximum Range	≥6 km
	Minimum Range	≤50 m
	Measurement Accuracy	2 m
Location Module	Positioning System	BD, GPS dual-mode
	Horizontal Accuracy (CEP)	5 m

	Elevation Accuracy (PE)	10 m
Digital Magnetic Compass	Azimuth Range	0~360°
	Azimuth Accuracy	0.5°
	Pitch Angle Range	-90°~+90°
	Pitch Angle Accuracy	0.4°
	Inclination Angle Range	-180°~+180°
	Inclination Angle Accuracy	0.5°
Laser Pointer	Wavelength	830 nm
	Power Output	5 mW, Class IIIA
Display System	Resolution	1280×1024
	Viewing	OLED display
Storage & Memory	Internal Storage	64GB
Optical Specifications	Ocular Diopter Adjustment	-4~+4
Physical Specifications	Weight	2.1 kg
	Battery Configuration	6×18650 batteries (3.7V, 3000mAh)
	Operating Time	≥8 hours
Environmental Performance	Operating Temperature	-40°C~+55°C
	Storage Temperature	-55°C~+70°C
	Waterproof Rating	IP67

Connectivity	Interfaces	HDMI, USB, PAL, RS232, WiFi
	Wireless Transmission	WiFi enabled

3, Features

The Five Optical Channels Multi - function Binoculars (Tom - B) represent the pinnacle of integrated optical observation technology. This apparatus integrates five advanced optical channels within a single, portable unit.

The infrared thermal imaging channel provides exceptional night vision capabilities. It is characterized by a resolution of 640×512 and a pixel pitch of 12μm. Operating in the 8 - 14μm spectral band, it can detect heat signatures even in complete darkness.

Complementing the infrared channel, the low - light imaging channel enables clear visualization in near - dark conditions. With a resolution of 750×600 and a sensitivity of 0.001 lux, it ensures reliable performance during twilight and in low - visibility environments.

The high - resolution visible light channel is capable of capturing sharp 4.6 - megapixel images during daytime operations. This offers exceptional detail for identification and documentation requirements.

Integrated laser rangefinder technology enables precise distance measurement of up to 6 kilometers with an accuracy of 2 meters. Additionally, the laser pointer aids in target designation and coordination.

The dual - mode BD/GPS location module provides accurate positioning information with a horizontal accuracy of 5 meters. This is further enhanced by a high - precision digital magnetic compass that measures azimuth, pitch, and inclination angles with sub - degree accuracy. This comprehensive navigation system allows for precise target location and tracking in any environment.

The system is equipped with a high - resolution 1280×1024 OLED display that presents clear imagery across all channels. It has intuitive controls for seamless mode switching and function adjustment. The built - in 64GB storage capacity enables extensive image and video recording. Moreover, WiFi connectivity allows for wireless data transmission to external devices for real - time sharing and analysis.

The binoculars, featuring a rugged design, weigh only 2.1 kilograms and can operate for over 8 hours on six 18650 batteries, making them suitable for extended field operations.

Engineered to withstand the most stringent conditions, the Five Optical Channels Multi - function Binoculars meet IP67 waterproof standards and can operate within a temperature range of - 40°C to +55°C. Multiple image processing modes, including various thermal palettes and fusion options, enhance target detection and recognition in diverse environmental conditions.

The device's ergonomic design ensures comfortable handling during extended use. Its comprehensive connectivity options facilitate integration with other systems and equipment. Whether employed for security surveillance, wildlife observation, search and rescue operations, or tactical applications, this multi - functional binocular offers unparalleled performance and versatility across all lighting and environmental 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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