

TD Delphinus Series

Handheld Thermal
Imaging Monocular

High Cost-Effective Scope For Every Explorer



Introduce

TD Delphinus Series follow the design of traditional optical equipment. It is a small, lightweight, simple operation, and a wide range of application scenarios for infrared handheld thermal imaging monocular. TD Thermal scope has clear imaging and comfortable observation, suitable for medium-distance and short-distance observation, It is an ideal equipment for outdoor night vision.



Features and Benefits

- o Boot up in 2 seconds and ready to use
- o High-sensitivity self-developed infrared detector to accurately detect targets
- o Built-in laser indicator to locate the target easily
- o 1280x960 High Resolution LCOS Display Screen to provide a comfortable observation
- o PIP mode to Highlight Target Clearly
- o Connect App via WIFI to share anytime
- o Support 8 hours super long operation time
- o IP66 Encapsulation, Rugged and Durable

Application

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|-------------------|----------------------|
| o Outdoor | o Search & Rescue |
| o Wild Adventure | o Personal Security |
| o Law Enforcement | o Livestock Breeding |

Specifications

Product model	TD210		TD410	TD420	TD430
Infrared Detector					
Detector type	VOx				
Detector resolution	256 × 192, 12 μm	400 × 300, 12 μm			
Spectral range	8 to 14 μm				
NETD	≤ 50mk	≤ 40mk			
Frame rate	50 Hz				
Lens					
Focal length	10 mm; F1.0	19 mm; F1.0	25 mm; F1.1	35 mm; F1.0	
Focus	Electric	Manual			
Field of view	17.1°×13.0°	13.6°×10.3°	10.4°×7.9°	7.5°×5.6°	
Optical zoom	1.5x	1.9x	2.4x	3.4x	
Digital zoom	1x, 2x	1x, 2x and 4x			
Power					
Battery type	Single, replaceable 18650 battery				
Battery life	≥ 8 hours	≥ 7 hours			
Interface					
USB	Type C (USB 2.0 standard), supporting analog video and power supply				
Video interface	USB Type C				
External expansion	External Display and Bluetooth remote control				
Mechanical interface	UNC ¼"-20 (Tripod mounting), Mechanical expansion interface				
Display					
Display type	0.4" FLCOS				
Resolution	1280 × 960				
Eyepiece	Monocular, exit pupil distance ≥ 12 mm, diopter adjustment: -4 to + 2				
Eyepiece zoom	13.8x				
Video output	Analog video				
Functions					
PIP	Upper left, Upper middle, Upper right, Closed				
Image enhancement	Supported only when there is no laser indicator				
Scene modes	Enhanced, Highlight and Natural				
Ultra power saving mode	Turn WIFI off or reduce the screen brightness level				
WIFI	Transmission of real-time video via WIFI for remote control in the 2.4G frequency band and within 15 meters				
Color palettes	Black Hot, White Hot, Red Hot, Iron Hot, Blue Hot				
Hot spot tracking	Available				
Compensation modes	Automatic, shutter and scene compensation				
Laser	Supported only when a laser indicator is available, up to 200 m				
System					
Language settings	Chinese or English				
Start up	1 s	2 s			
Environmental					
Storage temperature range	-30 °C to 60 °C				
Humidity	10 % to 95 % non-condensing				
Shock	30 G at 11 ms half sine pulse (as per IEC60068-2-27)				
Vibration	10 Hz~150 Hz~10 Hz 0.15 mm (as per IEC60068-2-6)				
Drop	1 m				
Encapsulation	IP66				
Certification	IP66, FCC, CE, RoHS, EAC, WEEE, un38.3, IEC 60825-1 Class 2				
Physical					
Weight	≤ 280 g	≤ 350 g			
Size (L × W × H)	130 × 40 × 70 mm	150 × 40 × 70 mm			
Standard	Battery charger (for China, US, UK, Australia and Europe and in compliance with FCC, CE, EAC and RoHS), single 18650 battery, USB Type C cable, lens cap, wrist strap, carry bag, quick start guide				
Optional	Extended bracket				

Specifications

