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

o Outdoor

o Wild Adventure

o Law Enforcement

o Search & Rescue

o Personal Security

o Livestock Breeding

Specifications

Model	TD210	TD410	TD420	TD430
Infrared Detector				
Detector type	VOx			
Detector resolution and pitch	256 × 192, 12 μm	400 × 300, 12 μm		
Spectral range	8 to 14 μm			
NETD	≤50mk @ F1 25℃			
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°
Frame Rate				
Output frame frequency	50 Hz			
Zoom				
Optical zoom	1.5x	1.9x	2.4x	3.4x
Digital zoom	1x, 2x	1x, 2x and 4x		
Visual effect	It's like viewing at a 22'' screen at 1 meter			
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), Picatinny			
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			
Button				
Button functions	Power / Brightness / Zoom / Color palette			
Functions				
Screen brightness adjustment	5 levels			
Detector brightness adjustment	/	5 levels		
Detector contrast adjustment	/	5 levels		
Image enhancement	Supoorted 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			
Working indicator	On / Off			
Compensation modes	Automatic, shutter and scene compensation			
Automatic shutdown	Closed, 15, 30 or 60 mins			
Automatic sleep	Closed, 5, 10, or 15 mins			
Language settings	Chinese or English			
Laser indicating	Supported only when a laser indicator is available, up to 200 m			
System				
PIP	Upper left, Upper middle, Upper right, Closed			
Start up	1 s	2 s		
Environmental				
Operating temperature range	-10 ℃ to 50 ℃			
Storage temperature range	-30 ℃ to 60 ℃			
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	Bluetooth remote control			

Specifications

Detection Range | **Recognition Range**

TD210

	Detection Range	Recognition Range
Vehicle (2.3m×2.3m)	1000	400
Human (1.8m×0.5m)	400	200
Deer (1.5m×0.5m)	330	170
Boar (0.9m×0.7m)	250	130

TD410

	Detection Range	Recognition Range
Vehicle (2.3m×2.3m)	1850	800
Human (1.8m×0.5m)	800	400
Deer (1.5m×0.5m)	630	320
Boar (0.9m×0.7m)	480	250

TD420

	Detection Range	Recognition Range
Vehicle (2.3m×2.3m)	2400	1000
Human (1.8m×0.5m)	1000	500
Deer (1.5m×0.5m)	830	420
Boar (0.9m×0.7m)	620	320

TD430

	Detection Range	Recognition Range
Vehicle (2.3m×2.3m)	2800	1400
Human (1.8m×0.5m)	1400	700
Deer (1.5m×0.5m)	1150	580
Boar (0.9m×0.7m)	880	450