

TD Gen2

Handheld Thermal Imaging Monocular

Experience Visual Delight with OLED



Introduction

TD Gen2 Series follows the design of traditional optical equipment. It is a lightweight, portable, simple operation with a wide range of application scenarios for handheld thermal imaging monoculars. With a high-brightness OLED display, TD Gen2 Series provides clear imaging and a comfortable viewing experience with a battery life of up to 10 hours, making it the ideal equipment for outdoor night vision.



Features and Benefits

- o Boot up in 2 seconds and ready to use
- o High-brightness OLED display for a comfortable observation
- o Upgraded image algorithm for richer details
- o Super long battery life of up to 10 hours
- o IP66 encapsulation, rugged and durable
- o New UI and interaction design for easier operation
- o OTA firmware upgrade by connecting APP

Applications

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

Specifications

Product model	TD211	TD411	TD421	TD431
Infrared Detector				
Detector type	VOx, 8 to 14 μ m			
Detector resolution	256 \times 192, 12 μ m	384 \times 288, 12 μ m		
NETD	\leq 50mk	\leq 40mk		
Frame rate	50 Hz			
Lens				
Focal length	10 mm; F1.0	19 mm; F1.0	25 mm; F1.1	35 mm; F1.0
Field of view	17.5° \times 13.2°	13.6° \times 10.3°	10.4° \times 7.9°	7.5° \times 5.6°
Optical zoom	0.7x	1.4x	1.9x	2.6x
Digital zoom	1x, 2x	1x, 2x and 4x		
Focus	Focus-free	Manual		
Power				
Battery type	Single, replaceable 18650 battery			
Battery life	\geq 12 hours	\geq 10 hours		
Interface				
USB	Type C (USB 2.0 standard), supporting analog video and power supply			
Video interface	USB Type C			
Mechanical interface	UNC ¼"-20 (Tripod mounting), Mechanical expansion interface			
Display				
Display type	0.23" OLED			
Resolution	640 \times 400			
Eyepiece	Monocular, exit pupil distance \geq 12 mm, diopter adjustment: -4 to + 2			
Eyepiece zoom	18x			
Video output	Analog video			
Functions				
Hot spot tracking	Available			
Rough ranging	Available with APP			
PIP	Upper left, Upper middle, Upper right, Closed			
Scene modes	Enhanced, Highlight and Natural			
Color palettes	Black Hot, White Hot, Red Hot, Iron Hot, Blue Hot			
Compensation modes	Automatic, shutter and scene compensation			
WIFI	Transmission of real-time video via WIFI for remote control in the 2.4G frequency band and within 15 meters			
Environmental				
Storage temperature	-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			
Detection Range				
Detection range	400 m	800 m	1000 m	1400 m
Physical				
Weight	\leq 280 g	\leq 330 g	\leq 325 g	\leq 345 g
Size (L \times W \times H)	140 \times 45 \times 74 mm	150 \times 45 \times 74 mm		150 \times 49 \times 74 mm
Standard	A device, lens cover and lanyard, Battery charger, single 18650 battery, USB Type-C cable, Wrist strap, Carry bag, Eye mask, Quick use guide, Warranty card			