

TD Gen2

Handheld Thermal Imaging Monocular

Experience Visual Delight with AMOLED



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 AMOLED 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

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

Applications

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

Specifications

Product model	TD211	TD411	TD421	TD431
Sensor				
Type	Uncooled VOx Infrared Detector, 8 to 14 μm			
Resolution	256 × 192, 12 μm	384 × 288, 12 μm		
NETD	≤50mK	≤35mK		
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° × 13.2°	13.6° × 10.3°	10.4° × 7.9°	7.5° × 5.6°
Optical zoom	1.1x	1.4x	1.9x	2.6x
Digital zoom	1x, 2x	1x, 2x and 4x		
Focus	Focus-free	Manual		
Display				
Display type	0.23" AMOLED			
Resolution	640 × 400			
Eyepiece	Exit pupil distance≥12 mm; Diopter: -4 to +2; Zoom: 18x			
Video output	Analog video			
Range Performance				
Detection range	400 m	800 m	1000 m	1400 m
Functions				
Scene modes	Enhanced, Highlight and Natural			
Color palettes	Black Hot, White Hot, Red Hot, Iron Hot, Blue Hot			
WIFI	2.4 G			
Supported Application	TargetIR			
Firmware OTA	Upgrade device firmware via app connection			
Others	PIP, Hot spot tracking, Rough ranging (Available with APP)			
Power				
Battery type	Single, replaceable 18650 battery			
Operating time	≥ 12 hours	≥ 10 hours		
Interface				
USB	USB Type-C			
Mechanical interface	UNC ¼"-20 (Tripod mounting), Mechanical expansion interface			
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)			
Drop	1 m			
Encapsulation	IP66			
Certification	IP66, FCC, CE, RoHS, EAC, WEEE, un38.3, IEC 60825-1 Class 2			
Physical				
Weight	≤280 g	≤330 g	≤325 g	≤345 g
Size	140×45×74 mm	150×45×74 mm		150×49×74 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			