

TD GEN2 LRF Handheld Thermal Imaging Monocular

Thermal Imaging with Laser Ranging, All in Your Control



Introduction

The TD Gen2 Series laser rangefinder version is the industry's first entry-level full-featured handheld thermal imaging monoculars. While inheriting the characteristics of the previous generation, such as being lightweight, portable, easy to operate, and durable, it integrates a high-precision laser rangefinder module to accurately detect targets within 600 meters. It adopts an OLED display, providing clear imaging and a comfortable viewing experience, making it the ideal equipment for outdoor night vision.



Features and Renefits

- Boot up in 2 seconds and ready to use
- High-brightness AMOLED display for a comfortable observation
- Upgraded image algorithm for richer details
- o Built-in laser rangefinder for 600m accurate target detection
- Super long battery life of up to 10 hours
- o IP66 encapsulation, rugged and durable
- New UI and interaction design for easier operation
- o OTA firmware upgrade by connecting APP

Annlications

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





Specifications

Product model	TD411 LRF	TD421 LRF	TD431 LRF	TD631 LRF
Sensor				
Туре		Uncooled VOx Infra	red Detector, 8 to 14 µm	
Resolution	384 × 288, 12 μm 640 × 480, 12 μm			
NETD	≤35mK			
- Frame rate	50 Hz			
_ens				
ocal length	19 mm; F1.0 25 mm; F1.1 35 mm; F1.0			n; F1.0
Field of view	13.6° × 10.3°	10.4° × 7.9°	7.5° × 5.6°	12.5° × 9.4°
Optical zoom	1.4x	1.9x	2.6x	1.7x
Digital zoom		1x, 2x and 4x	-	1x, 2x, 4x and 8x
ocus	Manual			
isplay			undu	
isplay type		n 23"	AMOLED	
Resolution	640 × 400			
	Exit pupil distance≥12 mm; Diopter: -4 to +2; Zoom: 18x			
yepiece 'ideo output	Exit pupil distance≥12 mm; Diopter: -4 to +2; Zoom: 18x Analog video			
Range Performance		Alldi	og video	
	000	1000	140	0
Petection range	800 m	1000 m	140	U M
lardware		.,		
aser rangefinder		Max. measui	ring range: 600m	
unctions				
Scene modes	Enhanced, Highlight and Natural			
Color palettes	Black Hot, White Hot, Red Hot, Iron Hot, Blue Hot			
VIFI	2.4 G			
Supported Application	TargetIR			
Firmware OTA	Upgrade device firmware via app connection			
Others		PIP, Hot	spot tracking	
Power				
Battery type	Single, replaceable 18650 battery			
perating time	≥ 10 hours			≥ 8 hours
nterface				
JSB	USB Type-C			
Mechanical interface		UNC 1/4"-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	≤383 g	≤360 g	≤393 g	≤399 g
Size	150×75×74 mm		150×77×74 mm	153×77×74 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			