

GUIDE

Thermal Imaging with Laser Ranging, All in Your Control

TD Gen2 LRFHandheld Thermal
Imaging Monocular

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

- Boot up in 2 seconds and ready to use
- High-brightness AMOLED display for a comfortable observation
- Upgraded image algorithm for richer details
- Built-in laser rangefinder for 600m accurate target detection
- 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

- Night Hunting
- Law Enforcement
- Wild Adventure
- Search & Rescue
- Personal security
- Livestock Breeding



Specifications

Product model	TD411 LRF	TD421 LRF	TD431 LRF	TD631 LRF
Sensor				
Type	Uncooled VOx Infrared Detector, 8 to 14μm			
Resolution	384×288@12μm			640×480@12μm
NETD	35mK			
Frame rate	50Hz			
Lens				
Objective lens	19mm, F1.0	25mm, F1.1	35mm, F1.0	
Field of view	13.6°×10.3°	10.4°×7.9°	7.5°×5.6°	12.5°×9.4°
FOV m@100m	24×18	18×14	13×10	22×16
Magnification	1.4x~5.6x	1.9x~7.6x	2.6x~10.4x	1.7x~13.6x
Detection range	1000m/1090yd	1300m/1400yd	1800m/1950yd	
Display				
Display type	0.23" AMOLED 640×400			
Color palettes	Black Hot, White Hot, Red Hot, Iron Hot, Blue Hot			
Eyepiece	Exit pupil distance 12 mm; Diopter: -4 to +2; Zoom: 18x			
Hardware				
Laser rangefinder	600m/650yd			
WIFI	2.4G			
Interface	USB Type-C			
Power				
Battery type	Single, replaceable 18650 battery			
Operating time	10 hours			8 hours
Environmental				
Encapsulation	IP66			
Physical				
Weight(g/oz)	383/13.51	360/12.70	393/13.86	399/14.07
Size(mm/in)	150×75×74/5.91×2.95×2.91		150×77×74/5.91×3.03×2.91	153×77×74/6.02×3.03×2.91
Standard	A device, lens cover and lanyard, Wrist strap, Carry bag, Eye mask, Battery charger, single 18650 battery, USB Type-C cable, Quick use guide, Warranty card			

* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors.
All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.