



GUIDE

Thermal Imaging with Laser Ranging, All in Your Control

TD Gen2 LRF

Handheld 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 14 μm			
Resolution	384×288@12 μm			640×480@12 μm
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			