



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 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 | | | |