



APEX
VISION

TD LRF 3.0 Series

Handheld Thermal Imaging Monocular

Seize the Hunt

outdoor

Introduction

The TD LRF 3.0 Series handheld thermal imaging monocular innovatively integrates a laser rangefinder while maintaining a compact design. The focusing roller allows for convenient one-handed operation, while the symmetrical ergonomic design enables flexible handling with either hand. With an impressive 10-hour battery life and IP67, it is well-equipped to handle various outdoor challenges. Featuring Wi-Fi connection, it enhances the efficiency and enjoyment of your exploration.

Features

- Next-gen infrared imaging system APEXVISION for ultra-clarity
- Ergonomic design with a focusing roller for one-handed operation.
- Integrated 1200m high-accuracy laser rangefinder.
- 0.49" AMOLED display for upgraded crisp images.
- 18650 battery provides up to 10-hour operation, easy installation in the dark.
- Built-in 64GB storage for recording photos, videos, and audio files.
- IP67 waterproof & dustproof, all-weather durability.
- Dual-band Wi-Fi connection, OTA upgrade via TargetIR APP.

Applications

- Night Hunting
- Wild Adventure
- Search & Rescue



Specifications

Product model	TD435LS	TD635LS	TD650LS
Sensor			
Core technology	Equipped with full ApexVision S1 system architecture: Detector ApexCore S1 + Platform Nexus 1.0 + Algorithm Hyper-Light 2.0		
Type	Uncooled VOx Infrared Detector, 8 to 14μm		
Resolution	400×300@12μm	640×512@12μm	
NETD	15mK		
Frame rate	50Hz		
Lens			
Objective lens	35mm, F1.0		50mm, F1.0
Field of view	7.9°×5.9°	12.5°×9.4°	8.8°×6.6°
FOV m@100m	14×10	22×17	15×12
Magnification	3.26x~13.04x	2.03x~16.24x	2.91x~23.28x
Detection range	1800m/1950yd		2600m/2800yd
Focus	Manual		
Display			
Display type	0.49" AMOLED 1440×1080		
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia		
Eyepiece	Eye relief: 20mm; Diopter: -6 to +6; Zoom: 13.8x		
Hardware			
Laser rangefinder	1200m/1300yd		
Wi-Fi	2.4G, 5G		
Interface	USB-C (Power supply/USB2.0)		
Others	Microphone, Bluetooth		
System			
Recording function	Photo/Video (Audio recording included)		
Memory capacity	64 GB		
Power			
Battery type	Single, Replaceable 18650 Battery		
Operating time	10 hours		
Environmental			
Operating temp.	-20°C to 50°C / -4°F to +122°F		
Encapsulation	IP67		
Physical			
Weight (g/oz)	374/13.19		465/16.4
Size (mm/in)	171×54×74/6.73×2.13×2.91		201×67×88/7.91×2.66×3.46
Standard	Device, Hand Strap, Neck Strap, Carry Bag, Lint-Free Cloth, Battery Charger, 18650 Battery ×2, 5V 2A Adapter, USB-A to USB-C Cable, Quick Start Guide, Warranty Card		
Optional	Bluetooth Remote Control, 18650 Battery		

* 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.