



APEX  
VISION

## TD 3.0 Series

Handheld Thermal Imaging Monocular

# Fingertip focus

# outdoor

### Introduction

The TD 3.0 Series handheld thermal imaging monocular, compact in design, yet powerful in function. 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
- 12 $\mu$ m advanced thermal detector, NETD down to 15mK
- Ergonomic design with a focusing roller for one-handed operation.
- 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	TD435S	TD635S	TD650S
<b>Sensor</b>			
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		
<b>Lens</b>			
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		
<b>Display</b>			
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		
<b>Hardware</b>			
Wi-Fi	2.4G, 5G		
Interface	USB-C		
Others	Microphone, Bluetooth		
<b>System</b>			
Recording function	Photo/Video (Audio recording included)		
Memory capacity	64 GB		
<b>Power</b>			
Battery type	Single, Replaceable 18650 Battery		
Operating time	10 hours		
<b>Environmental</b>			
Operating temp.	-20°C to 50°C / -4°F to +122°F		
Encapsulation	IP67		
<b>Physical</b>			
Weight (g/oz)	355/12.52	362/12.77	461/16.26
Size (mm/in)	159×54×74/6.26×2.13×2.91		189.5×67.5×88/7.46×2.66×3.46
Standard	Device, Eye Mask, Hand Strap, Neck Strap, Carry Bag, Accessory Bag, Lint-Free Cloth, Battery Charger, 18650 Battery ×2, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card		
Optional	Bluetooth Remote Control, 18650 Battery		