

# TD Gen3 Series

Handheld Thermal Imaging Monocular



Fingertip focus



## Introduction

The TD Gen3 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 12-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

- o 12 $\mu$ m advanced thermal detector, NETD down to 20mK.
- o Ergonomic design with a focusing roller for one-handed operation.
- o 0.36" AMOLED display for upgraded crisp images.
- o 18650 battery provides 12h runtime, tool-free install in the dark.
- o Built-in 32GB storage for recording photos, videos, and audio files.
- o IP67 waterproof & dustproof, all-weather durability.
- o Dual-band Wi-Fi connection, OTA upgrade via TargetIR APP.

## Applications

- o Night Hunting
- o Wild Adventure
- o Search & Rescue



## Specifications

Product model	TD413	TD423	TD433	TD623	TD633	TD653
Sensor						
Type	Uncooled VOx Infrared Detector, 8 to 14μm					
Resolution	400×300@12μm			640×512@12μm		
NETD	25mK			20mK		
Frame rate	50Hz					
Lens						
Objective lens	19mm, F1.0	25mm, F1.0	35mm, F1.0	25mm, F1.0	35mm, F1.0	50mm, F1.0
Field of view	14.4°×10.8°	11.0°×8.2°	7.9°×5.9°	17.5°×13.1°	12.5°×9.4°	8.8°×6.6°
FOV m@100m	25x19	19x14	14×10	31x23	22×17	15×12
Magnification	1.6x~6.4x	2.1x~8.4x	2.9x~11.6x	1.3x~10.4x	1.8x~14.4x	2.6x~20.8x
Detection range	1000m/1090yd	1300m/1400yd	1800m/1950yd	1300m/1400yd	1800m/1950yd	2600m/2800yd
Focus	Manual					
Display						
Display type	0.36" AMOLED 1280×960					
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						
WIFI	2.4G, 5G					
Interface	USB-C					
Others	Microphone, Bluetooth					
System						
Recording function	Photo/Video (Audio recording included)					
Memory capacity	16GB			32GB		
Power						
Battery type	Single, Replaceable 18650 Battery					
Operating time	12 hours			10 hours		
Environmental						
Operating temp.	-20°C to 50°C / -4°F to +122°F					
Encapsulation	IP67					
Physical						
Weight (g/oz)	349/12.31	343/12.10	355/12.52	350/12.35	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, Hand Strap, Battery Charger, 18650 Battery ×1, 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					

\* 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.