



GUIDE

1000m in Your Reach

TB LRF Pro Series

Thermal Imaging
Attachment

Introduction

After an in-depth hardware upgrade and software optimization, the TB LRF Pro Series combines precision and portability. Its appearance remains light without reducing professionalism at all: built-in laser rangefinder can reach an ultra-long distance of up to 1,000 meters; two batteries empower a longer operating time; full HD AMOLED display brings a rich and detailed visual experience; it also supports intelligent functions such as image tracing, automatic recording, AI tracking, etc.

Features

- 12 μ m advanced thermal detector, NETD down to 20mK
- Full-HD 1920 \times 1080 AMOLED display
- Built-in laser rangefinder up to 1000m
- Support image tracing, automatic recording, AI tracking, etc.
- Double side focus knob for easy operation
- Video recording including sound
- IP68, shock resistance up to 1000G/ms

Applications

- Night Hunting
- Law Enforcement
- Search & Rescue
- Personal Security



Specifications

Product model	TB630LP	TB650LP
Sensor		
Type	Uncooled VOx Infrared Detector, 8 to 14 μm	
Resolution	640×512@12 μm	
NETD	20mK	
Frame rate	50Hz	
Lens		
Objective lens	35mm, F1.0	50mm, F1.0
Field of view	12.5°×9.4°	8.8°×6.6°
FOV m@100m	22×16	15×12
Magnification	1x	
Detection range	1800m/1950yd	2600m/2800yd
Display		
Display type	0.39" AMOLED 1920×1080	
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia	
Eyepiece	Exit pupil distance 20mm; Zoom: 9.5x	Exit pupil distance 20mm; Zoom: 6.8x
Hardware		
Laser rangefinder	1000m/1090yd	
WIFI	2.4G, 5G	
Interface	USB Type-C (Power supply/USB2.0)	
Others	Microphone, Bluetooth	
System		
Recording function	Photo/Video (Audio recording included)	
Memory capacity	64GB	
Power		
Battery type	2 replaceable 18650 batteries	
Operating time	9 hours	
Environmental		
Operating temp.	-20°C to 50°C / -4°F to +122°F	
Shock	1000 G at 1 ms half sine pulse (as per IEC60068-2-27)	
Encapsulation	IP68	
Physical		
Weight(g/oz)	561/19.79	582/20.53
Size(mm/in)	161×89×97/6.34×3.50×3.82	
Standard	A device, Battery charger, 18650 battery×2, 5V2A adapter (US, Britain, Australia and Europe), USB Type-C cable, Quick use guide, Warranty card	
Optional	18650 battery, Bluetooth remote control, Cover ring adapter	

Cover ring adapter	
A	Weighs 70g, compatible with 38/40/42/44/46mm
B	Weighs 80g, compatible with 48/50/52/54mm
C	Weighs 90g, compatible with 56/58/60/62/64mm