



# 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 $\mu$ 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                              |
|----------------------|--|--------------------------------------|
| <b>Sensor</b>        |  |                                      |
| Type                 | Uncooled VOx Infrared Detector, 8 to 14 $\mu\text{m}$  |                                      |
| Resolution           | 640×512@12 $\mu\text{m}$   |                                      |
| NETD                 | 20mK   |                                      |
| Frame rate           | 50Hz   |                                      |
| <b>Lens</b>          |  |                                      |
| 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                         |
| <b>Display</b>       |  |                                      |
| 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 |
| <b>Hardware</b>      |  |                                      |
| Laser rangefinder    | 1000m/1090yd   |                                      |
| WIFI                 | 2.4G, 5G   |                                      |
| Interface            | USB Type-C (Power supply/USB2.0)   |                                      |
| Others               | Microphone, Bluetooth  |                                      |
| <b>System</b>        |  |                                      |
| Recording function   | Photo/Video (Audio recording included)   |                                      |
| Memory capacity      | 64GB   |                                      |
| <b>Power</b>         |  |                                      |
| Battery type         | 2 replaceable 18650 batteries  |                                      |
| Operating time       | 9 hours  |                                      |
| <b>Environmental</b> |  |                                      |
| 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   |                                      |
| <b>Physical</b>      |  |                                      |
| 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 |