



GUIDE

50mm Vision, all in Control

TB Pro Series

Thermal Imaging
Attachment

Introduction

The TB Pro Series perfectly balances precision and portability. The magnesium alloy housing decreases weight while increasing precision. The weights are over 20% lighter than those of other similar products. It is also more compact than our previous clip-on. Meanwhile, a Full-HD AMOLED display is capable, a wider viewing angle, and richer color. It is the ideal partner for relax hunting.

Features

- 12 μ m advanced thermal detector, NETD down to 20mK
- 50mm focal length with a maximum detection range of 2600m
- Full-HD 1920 \times 1080 AMOLED display
- Magnesium alloy housing, compact design, lightweight but powerful
- 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	TB650P
Sensor	
Type	Uncooled VOx Infrared Detector, 8 to 14 μ m
Resolution	640×512@12 μ m
NETD	20mK
Frame rate	50Hz
Lens	
Objective lens	50mm, F1.0
Field of view	8.8°×6.6°
FOV m@100m	15×12
Magnification	1x
Detection range	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: 6.8x
Hardware	
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)	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