

TB 2.0 Series

Thermal Imaging Attachment

Precision in Silence, Clarity Without Lag

Features

- o **G-Zero Shutterless***: True zero-shutter calibration for seamless, uninterrupted visuals
- o **Top-Tier Clarity**: Powered by Hyper-light algorithm and high-sensitivity detectors
- o **Standard 18650**: Replaceable, rechargeable battery with low-power design for extended runtime
- o **Ultra-Precise**: 1.22cm@100m per-click adjustment, compatible with 15x daylight optics
- o **LRF in Lens**: Integrated laser rangefinder in the lens elevates ranging accuracy

Applications

- o Night Hunting
- o Law Enforcement
- o Search & Rescue
- o Personal security



*Note: The shutter module has been retained to ensure high image quality during startup and under significant temperature variations.

Specifications



Product model	TB650 2.0	TB650P 2.0
Sensor		
Type	Uncooled VOx Infrared Detector, 8 to 14μm	
Resolution	640×512@12μm	
NETD	18mK	
Frame rate	50Hz	
Lens		
Objective lens	50mm, F1.0	50mm, F0.9
Field of view	8.8°×6.6°	
FOV m@100m	15×11	
Magnification	1x	
Detection range	2600m/2800yd	
Focus	Manual	
Display		
Display type	0.39" AMOLED 1920×1080	
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia	
Eyepiece	Eye relief: 20mm; Zoom: 6.7x	
Hardware		
Laser Rangefinder	/	1500m/1630yd
WIFI	2.4G, 5G	
Interface	USB-C (Power supply/USB2.0)	
Others	Microphone, Bluetooth	
System		
Recording function	Photo/Video (Audio recording included)	
Memory capacity	64GB	
Power		
Battery type	Single, Replaceable 18650 Battery	
Operating time	5 hours	
Environmental		
Operating temp.	-20°C to 50°C / -4°F to +122°F	
Shock	6000J	
Encapsulation	IP68	
Physical		
Weight (g/oz)	480/16.93	490/17.28
Size (mm/in)	144×86×79/5.67×3.39×3.11	
Standard	Device, 18650 Battery ×2, Battery Charger, USB-A to USB-C Cable, Quick Start Guide, Warranty Card	
Optional	Bluetooth Remote Control, Adapter Ring, 18650 Battery	

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

* 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.