

## TB 2.0 Series

Thermal Imaging Attachment

# Precision in Silence, Clarity without lag

outdoor

## Features

- **APEXVISION:** Next-gen infrared imaging system for ultra-clarity & precision
- **Shutterless Design\*:** Innovative 3.0 shutterless design ensures smooth, uninterrupted visuals.
- **Top-Tier Clarity:** Powered by Hyper-light 2.0 algorithm and high-sensitivity detectors
- **Standard 18650:** Replaceable, rechargeable battery with low-power design for extended runtime
- **Ultra-Precise:** 1.22cm@100m per-click adjustment, compatible with 15x daylight optics
- **LRF in Lens:** Integrated laser rangefinder in the lens elevates ranging accuracy (for TB650LS/TB1260LS)

## Applications

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



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

## Specifications



Product model	TB650S	TB650LS	TB1260LS
<b>Sensor</b>			
Core Technology Item	Equipped with full ApexVision S1 system architecture: Detector ApexCore S1 + Platform Nexus 1.0 + Algorithm Hyper-Light 2.0		
Type	Uncooled VOx Infrared Detector, 8 to 14μm		
Resolution	640×512@12μm		1280×1024@12μm
NETD		15mK	
Frame rate		50Hz	
<b>Lens</b>			
Objective lens	50mm, F0.9		60mm, F1.0
Field of view	8.8°×6.6°		14.6°×11.0°
FOV m@100m	15×11		25×19
Magnification		1x	
Detection range	2600m/2800yd		3200m/3500yd
Focus	Manual		
<b>Display</b>			
Display type	0.39" AMOLED 1920×1080		0.5" AMOLED 1600×1200
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia		
Eyepiece	Eye relief: 20mm		
<b>Hardware</b>			
Laser rangefinder	/		1200m/1300yd
WIFI	2.4G, 5G		
Interface	USB-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	Single, Replaceable 18650 Battery		Replaceable 18650 ×2 Battery
Operating time	5 hours		6 hours
<b>Environmental</b>			
Operating temp.	-20°C to 50°C / -4°F to +122°F		
Shock	6000J		
Encapsulation	IP68		
<b>Physical</b>			
Weight (g/oz)	490/17.28	485/17.11	740/26.10
Size (mm/in)	144×86×79/5.67×3.39×3.11	139×86×79/5.47×3.39×3.11	162×97×102/6.38×3.82×4.02
Standard	Device, Carry Bag, Accessory Bag, Lint-Free Cloth, Battery Charger, 18650 Battery ×2, USB-A to USB-C Cable, Quick Start Guide, Warranty Card		
Optional	Bluetooth Remote Control, Adapter Ring, 18650 Battery		

Adapter Ring	
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