



GUIDE

Compact in Size High in Performance

TB Series

Clip-on
Thermal Imaging Attachment

Introduction

The TB Series bridges the gap between 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 \leq 25mK
- Full-HD 1920x1080 AMOLED display
- Magnesium alloy housing, compact design, light weight but powerful
- Two Standard 18650 batteries provides up to 12 hours of operation
- Double Side focus knob for easy operation
- IP68, Shock resistance up to 1000G/ms

Applications

- Night Hunting
- Law Enforcement
- Personal security



Specifications

Product model	TB420	TB430	TB630
Sensor			
Type	Uncooled VOx Infrared Detector, 8 to 14 μm		
Resolution	400×300, 12 μm	640×480, 12 μm	
NETD	$\leq 25\text{mK}$		$\leq 20\text{mK}$
Frame rate	50 Hz		
Lens			
Focal length	25mm, F1.0	35mm, F1.0	
Field of angle	10.9°×8.2°	7.8°×5.9°	12.5°×9.4°
Optical zoom	1x		
Digital zoom	1x		
Focus	Manual		
Display			
Display type	0.39" AMOLED		
Resolution	1920×1080		
Eyepiece	Exit pupil distance ≥ 20 mm		
Video output	Analog video		
Range Performance			
Detection range	1000 m	1400 m	
Functions			
Scene modes	Enhanced, Highlight and Natural		
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot		
Recording function	Photo/Video		
WIFI	2.4G, 5G		
Supported Application	TargetIR		
Firmware OTA	Upgrade device firmware via app connection		
Others	PIP, Hot spot tracking, Rough ranging		
Power			
Battery type	Two 18650 batteries		
Operating time	≥ 12 hours	≥ 10 hours	
Interface			
USB	USB Type-C		
System			
Language settings	English/ Russian/ German/ French/ Italian/ Spanish/ Japanese/ Korean/ Polish/ Romanian/ Norwegian/ Swedish/ Danish		
Memory capacity	32GB	64GB	
Environmental			
Operating temperature	-20°C to 50°C		
Storage temperature	-40°C to 60°C		
Humidity	10 % to 95 % non-condensing		
Shock	1000 G at 1 ms half sine pulse (as per IEC60068-2-27)		
Drop	1m		
Encapsulation	IP68		
Certification	IP68, FCC, CE, RoHS, UKCA, EAC, WEEE, un38.3, Certification for Air transport		
Physical			
Weight	$\leq 420\text{g}$	$\leq 425\text{g}$	$\leq 440\text{g}$
Size	128×79×79 mm		
Standard	Device, 18650 battery×2, Desktop charger, Type C cable, 5V2A adapter (US, Britain, Australia and Europe), Quick start guide, Warranty card		
Optional	18650 battery, Bluetooth remote control, Cover ring adapter		

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