



TU 3.0 Series

Thermal Imaging Scope

Travel Light, Perform Strong

Features

- o **Highly Sensitive:** 12 μ m thermal detector, NETD reaches 18mK
- o **Exceptional Imaging:** Hyper-light intelligent image enhancement algorithm delivers an ultra-detailed infrared view.
- o **Shutterless Design:** Innovative 3.0 shutterless design ensures smooth, uninterrupted visuals.
- o **Seamless Control:** Centrally positioned focus wheel & zoom lever, ergonomically designed for effortless operation.
- o **Rugged Design:** IP68-rated, shock resistance up to 6000J.
- o **WiFi Upgrade:** Supports 2.4G/5G dual-band, enabling more efficient data transmission.
- o **Powerful APP:** Connect mobile APP for OTA firmware upgrade and ballistic calculation.

Applications

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



Specifications

Product model	TU435 3.0		TU650 3.0	
Sensor				
Type	Uncooled VOx Infrared Detector, 8 to 14μm			
Resolution	400×300@12μm		640×512@12μm	
NETD	20mK		18mK	
Frame rate	50 Hz			
Lens				
Objective lens	35mm F1.0		50mm, F1.0	
Field of view	7.4°×4.4°		8.2°×5.0°	
FOV m@100m	13×8		14×9	
Magnification	4.4x~17.6x		3.9x~31.2x	
Detection range	1800m/1950yd		2600m/2800yd	
Focus	Manual			
Display				
Display type	0.49" AMOLED 1920×1080			
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia			
Eyepiece	Eye relief: 48mm; Diopter -5 to +5; Zoom: 14x			
Hardware				
WIFI	2.4G, 5G			
Interface	USB-C (Charge/USB2.0)			
Tube diameter	Standard 30 mm			
Others	Microphone, Bluetooth			
System				
Recording function	Photo/Video (Audio recording included)			
Memory capacity	128GB			
Power				
Battery type	18500 ×1 Battery (Built-in) and 18650 ×1 Battery (External)			
Operating time	12 hours			
Environmental				
Operating temp.	-20°C to 50°C / -4°F to +122°F			
Shock	6000J/1200G			
Encapsulation	IP68			
Physical				
Weight (g/oz)	738/26.03		776/27.37	
Size (mm/in)	374×89×76/14.72 ×3.50× 2.99		377×89×76/14.84 ×3.50× 2.99	
Standard	Device, Lens Cover, Eye Mask, Quick-Release Scope Mount, Carry Bag, 18650 Battery ×2, Battery Charger, 5V 2A Adapter (US or UK or Australia or Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card			
Optional	Bluetooth Remote Control, Laser Rangefinder, 18650 Battery			

* 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.