

TU Muo 3.0 Series

Thermal Imaging Scope

outdoor

Brilliance in Thermal & Optical

Features

- o **Dual Sights:** Integrated thermal and night vision for all-day, all-weather targeting.
- o **Ultra-Clear Sensitivity:** 12μm detector + 18mK NETD with Hyper-light enhancement algorithm for exceptional infrared imaging.
- o **Comfortable Viewing:** QHD 2560×2560 AMOLED display for clear, smooth visuals.
- 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 **Laser Range:** Pinpoint target locations with accuracy, up to 1500m.
- o **Rugged Design:** IP68-rated, shock resistance up to 6000J.

Applications

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



Specifications

Product model	TU650M 3.0		TU1250M 3.0
Sensor			
Type	Thermal: Uncooled VOx Infrared Detector, 8 to 14μm; Digital: CMOS		
Resolution	Thermal: 640×512@12μm (NETD 18mK); Digital: 1920×1080@2.9μm	Thermal: 1280×1024@12μm (NETD 18mK); Digital: 1920×1080@2.9μm	
Frame rate	50 Hz		
Lens			
Objective lens	Thermal: 50mm, F1.0; Digital: 35mm, F4.0		
Field of view	Thermal: 8.8°×7.0°; Digital: 6.4°×5.1°	Thermal: 17.5°×14.0°; Digital: 6.4°×5.1°	
FOV m@100m	Thermal: 15×12; Digital: 11×9	Thermal: 31×25; Digital: 11×9	
Magnification	Thermal: 3.7x~29.6x; Digital: 3.7x~29.6x	Thermal: 1.9x~30.4x; Digital: 3.7x~59.2x	
Detection range	Thermal: 2600m/2800yd; Digital: 500m/550yd		
Focus	Manual		
Display			
Display type	1.03" AMOLED 2560×2560		
Color palettes	IR: White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia; Visible: Day, Night, Low-light		
Eyepiece	Eye relief: 60mm; Diopter -5 to +5; Zoom: 7.8x		
Hardware			
Laser Rangefinder	1500m/1630yd		
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	256GB		
Power			
Battery type	18650 ×2 Battery (Built-in) and 18650 ×1 Battery (External)		
Operating time	14 hours	12 hours	
Environmental			
Operating temp.	-20°C to 50°C / -4°F to +122°F		
Shock	6000J/1200G		
Encapsulation	IP68		
Physical			
Weight (g/oz)	1013/35.73	1090/38.45	
Size (mm/in)	457×90×84/17.99×3.54×3.30		
Standard	Device, Lens Cover, Eye Mask, Quick-Release Scope Mount, Carry Bag, IR Illuminator, IR Illuminator Bracket, 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, 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.