

TU LRF 3.0 Series

Thermal Imaging Scope

Excellence through Clarity

outdoor

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 **Laser Range:** Pinpoint target locations with accuracy, up to 1500m.
- o **Rugged Design:** IP68-rated, shock resistance up to 6000J.
- 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	TU435L 3.0	TU650L 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		
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	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)	780/27.51	815/28.75
Size (mm/in)	374×89×82/14.72×3.50×3.23	377×89×82/14.84×3.50×3.23
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, 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.