



## TU Pro 3.0 Series

Thermal Imaging Scope

# Engineered for Compact Precision

outdoor **APEX  
VISION**

## Features

- o **APEXVISION:** Next-gen infrared imaging system for ultra-clarity & precision
- o **Highly Sensitive:** 12 $\mu$ m thermal detector, NETD reaches 15mK
- o **Exceptional Imaging:** Hyper-light 2.0 intelligent image enhancement algorithm delivers an ultra-detailed infrared view.
- o **Comfortable Viewing:** QHD 2560 $\times$ 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:** Built-in LRF lens design delivers precise targeting up to 1200m.
- o **Rugged Design:** IP68-rated, shock resistance up to 6000J.
- o **Long Battery Life:** 14 hours of operation, and supports hot-swappable batteries.

## Applications

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



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

## Specifications

Product model	TU435LS	TU635LS	TU650LS
<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	400×300@12μm	640×512@12μm	
NETD	15mK		
Frame rate	50Hz		
<b>Lens</b>			
Objective lens	35mm, F0.9		50mm, F0.9
Field of view	7.9°×5.9°	12.5°×10.0°	8.8°×7.0°
FOV m@100m	14×10	22×18	15×12
Magnification	4.2x~16.8x	2.6x~20.8x	3.7x~29.6x
Detection range	1800m/1950yd		2600m/2800yd
Focus	Manual		
<b>Display</b>			
Display type	1.03" AMOLED 2560×2560		
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia		
Eyepiece	Eye relief: 60mm; Diopter -5 to +5; Zoom: 7.8x		
<b>Hardware</b>			
Laser rangefinder	1200m/1300yd		
WiFi	2.4G, 5G		
Interface	USB-C (Charge/USB2.0)		
Tube diameter	Standard 30 mm		
Others	Microphone, Bluetooth		
<b>System</b>			
Recording function	Photo/Video (Audio recording included)		
Memory capacity	128GB	256GB	
<b>Power</b>			
Battery type	18650 ×2 Battery (Built-in) and 18650 ×1 Battery (External)		
Operating time	14 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)	875/34.44		935/32.98
Size (mm/in)	420×89×80/16.5×3.50×3.15		421×89×80/16.57×3.50×3.15
Standard	Device, Eye Mask, Quick-Release Scope Mount, Carry Bag, Lint-Free Cloth, Battery Charger, 18650 Battery ×2, 5V 2A Adapter (US, UK, Australia, and 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.