

APEX
VISION

outdoor

TU SE 3.0 Series

Thermal Imaging Scope

LPVO, Small but Mighty

Introduction

The TU 3.0 Series redefines precision optics through advanced thermal imaging, modular architecture, and AI-driven performance. Spanning a full range from lightweight, compact models to dual-spectrum and integrated rangefinding solutions, it addresses the varied needs of hunters, law enforcement, and professional users. Standard features include AI-enhanced imaging, a 3.0 shutterless architecture, ergonomic controls, IP68-rated protection, and dual-band Wi-Fi—ensuring stable and reliable operation even in extreme conditions.

Features

- **APEXVISION:** Next-gen infrared imaging system for ultra-clarity & precision
- **Exceptional Imaging:** NETD < 15mK infrared detector paired with Hyper-light 2.0 Scenario-Optimized Algorithm
- **Shutterless Design*:** Innovative 3.0 shutterless design ensures smooth, uninterrupted visuals.
- **Seamless Control:** Centrally positioned focus wheel & zoom lever, ergonomically designed for effortless operation.
- **Ultra-Lightweight:** Only 575g, effortlessly portable.
- **Rugged Design:** IP68-rated, shock resistance up to 6000J.
- **Smart Recording:** Auto-saves video/photo per shot, capturing shooting moments.
- **Smart Connectivity:** Dual-band Wi-Fi connection, OTA upgrade via TargetIR APP.

Applications

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



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

Specifications

Product model	TU425S
Sensor	
Core technology	Equipped with full ApexVision SI system architecture: Detector ApexCore SI + Platform Nexus 1.0 + Algorithm Hyper-Light 2.0
Type	Uncooled VOx Infrared Detector, 8 to 14μm
Resolution	400×300@12μm
NETD	15mK
Frame rate	50Hz
Lens	
Objective lens	25mm, F1.0
Field of view	10.3°×6.2°
FOV m@100m	18×11
Magnification	4.3x~17.2x
Detection range	1300m/1400yd
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	
Wi-Fi	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	64 GB
Power	
Battery type	18500 ×1 Battery (Built-in) and 18650 ×1 Battery (External)
Operating time	8 hours
Environmental	
Operating temp.	-20°C to 50°C / -4°F to +122°F
Shock	6000J
Encapsulation	IP68
Physical	
Weight (g/oz)	575/20.28
Size (mm/in)	311×89×76/12.24×3.50×2.99
Standard	Device, Quick-Release Scope Mount, Carry Bag, Lint-Free Cloth, Battery Charger, 18650 Battery ×2, 5V 2A Adapter, 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.