

TU Ursa Major Series

Thermal Imaging Riflescope



TU420

TU430

TU450

TU620

TU630

TU650

Introduce

Guide TU thermal imaging riflescope retains the appearance of a traditional daylight scope and perfectly integrates latest premium thermal imaging technology. The design of this scope accommodates long-term operating habits of hunters. TU series adopts high-sensitivity thermal detector with three different lens options of 25mm,35mm,50mm, and its 10 sets of zero calibration configuration make it convenient to switch between different instruments.



Features and Benefits

- HD OLED display, with 1x~8x smooth zoom, provides a comfortable visual experience
- 10 sets of zero calibration configurations can be saved, no need to recalibrate for different instruments
- The reticle density can be zoomed in synchronously with the image to ensure the aiming accuracy
- 10 kinds of reticles, 6 kinds of reticle colors, 10 grades of reticle brightness, for your selection
- Support photo and video, record wonderful moments at any time, easy to share
- Remote control by WIFI or Bluetooth, for diversified usage
- Rugged and durable, IP67 rating, working temperature -30°C~50°C, no fear of severe weather
- 10hrs super long duration time, changing battery without turn off, ensuring full day operations
- Mounts on Standard 30 mm Scope Rings

Application

- Outdoor Observing
- Law Enforcement

NEW

Specifications

Model	TU420	TU430	TU450	TU620	TU630	TU650
Detector						
Detector Type	400×300@17μm, VOx			640×480@12μm, VOx		
Spectral	8μm ~ 14μm					
NETD	≤50mk					
Lens						
Focal Length	25mm	35mm	50mm	25mm	35mm	50mm
FOV	15.49°×11.65°	11.1°×8.33°	7.78°×5.84°	17.46°×13.14°	12.52°×9.41°	8.78°×6.59°
Focusing	Manual					
Display						
Display Screen	Full-color 0.39'OLED screen, 1024×768					
Eyepiece	Pupil distance of eyepiece 48mm, Eyepiece magnification 14×					
Magnification	1.6×~6.4×	2.3×~9.2×	3.2×~12.8×	1.4X~11.2X	2.0X~16.0X	2.8X~22.4X
Imaging						
Frame Rate	50Hz					
Digital Zoom	1X~4X (Smooth zoom)			1X~8X (Smooth zoom)		
Scene Modes	Enhance, highlight, natural					
Color Palettes	White hot, black hot, customized red hot, green hot, iron red, blue heat					
Picture-in-picture	on/off, the position is adjustable					
Functions						
Wi-Fi/APP	Connect App (IOS & Android) via WIFI to realize remote control, live image and video transmission					
Compensation Modes	Scene compensation, shutter compensation, automatic compensation					
Zero Calibration	50m/100m/200m/300m/500m					
Gun Type Selection	10 sets of zero calibration configurations can be saved, no need to recalibrate for different instruments					
Reticle	10 reticle styles, 6 colors, 10 levels of brightness					
Others	Photo taking, video recording, hotspot tracking, Stadiametric rangefinder					
Power Supply						
Battery Type	1× internal Battery + 1× external battery, rechargeable, change external battery without power cut off					
Battery Operating Time	Battery continuous working time ≥ 10hrs					
Interface						
USB	Type-C, It can supply external power and charge, and can read the data of memory card					
Video Interface	Micro HDMI					
Environmental Characteristics						
Operating Temperature	-30 °C ~ 50 °C (External power supply is required below -20°C)					
Storage Temperature	-45°C~70°C					
Humidity	Working and storage 10% ~ 95%, non condensing					
Shock	500G/1ms					
Vibration	10Hz ~ 150Hz ~ 10Hz 0.15mm IEC60068-2-6					
IP level	IP67					
Certificate	RoHS, CE, FCC, EAC, UN38.3 (Battery certificate)					
Physical Characteristics						
Internal Storage	16G					
Weight (excl battery)	930g	940g	950g	980g	980g	990g
Dimensions (excl eye mask)	367×107×69mm		377×107×69mm	367×107×69mm		377×107×69mm
Package Contents						
Standard	Thermal Imaging Riflescope, Lens Cover, Adapter, Battery, Charger, TYPE-C Data Cable, Micro HDMI Video Cable, Eye Mask, Picatinny Tube Clip×2(30mm Diameter), Pouch, Shoulder strap, Quick Start Guide					
Optional	Battery, Remote Control					

Detection Range	Recognition Range	TU420	TU430	TU450	Unit: m
1.8m×0.5m		700 350	1000 500	1400 700	
2.3m×2.3m		1700 700	2400 1000	3000 1400	
1.8m×0.5m		1000 500	1400 700	2000 1000	
2.3m×2.3m		2400 1000	2800 1400	3300 2000	

