

Guide Sensmart TS Series Thermal Rifle Scope Owner's Manual

Home » Guide sensmart » Guide Sensmart TS Series Thermal Rifle Scope Owner's Manual



Contents

- 1 Guide Sensmart TS Series Thermal Rifle
- **Scope**
- 2 Introduce
- 3 Features and Benefits
- 4 Application
- **5 Specifications**
- 6 Documents / Resources
 - **6.1 References**
- 7 Related Posts



Guide Sensmart TS Series Thermal Rifle Scope



Introduce

TS Series is an economical civilian infrared thermal imaging riflescope that includes 25mm/35mm/50mm objective lenses. With 400×300 pixel TEC metal-encapsulated thermal detector, it can detect longer range and capture vivid images of higher clarity. TS thermal riflescope also features with compact size, waterproof and dustproof, high shock resistance, rugged and durable, which performs impressively in any harsh weather.



Features and Benefits

- Excellent imaging performance, with 17m@400×300 TEC metal encapsulated thermal detector for crisper images.
- Rugged and durable, IP67 degree of protection, high shock resistance, no fears of harsh weather.
- Zoom in on the center of the reticle, and the relative position of the aiming point and the reticle remains unchanged to ensure the aiming accuracy.
- 50Hz high frame rate, ensuring capture smooth and vivid image during fast motion of observer or object of observation.
- 1024×768 resolution AMOLED eyepieces, colorful and detailed images
- Battery-mount user-friendly design, both side can be mounted, change battery easily in darkness.

Application

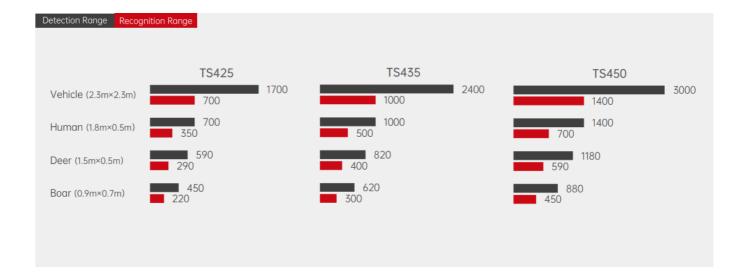
- Outdoor Observing
- Law Enforcement

Specifications

Model	TS425	TS435	TS450	
Infrared detector				
Detector type	VOx			
Detector resolution an d pitch	384 × 288, 17 μm			
Spectral range	8 to 14 μm			
NETD	≤50mk @ F1 25°C			
Lens				
Focal length	25 mm; F1.1	35 mm; F1.2	50 mm; F1.2	
Focus	Manual			
Field of angle	14.9° × 11.2°	10.7° × 8.0°	7.5° × 5.6°	
Frame rate				
Output frame frequency	50 Hz			
Zoom				
Optical zoom	1.6x	2.3x	3.3x	
Digital zoom	1x, 2x and 4x			
Power				
Battery type	Single, replaceable 18650 battery			
Battery life	≥ 4.5 hours			
Interface				
Video interface	LEMO			
External expansion	External Display			
Mechanical interface	Picatinny			
Display				
Display type	0.39" OLED			
Resolution	1024 × 768			
Eyepiece	Exit pupil distance ≥ 48 mm Exit pupil diameter ≥ 8 mm Diopter ± 4			
Eyepiece zoom	14x			
Video output	Analog video			
Button				
Button functions	Power / Roller			
Functions				

Screen brightness adjustment	10 levels				
Detector brightness ad justment	10 levels				
Detector contrast adju stment	10 levels				
Color palettes	White Hot, Black Hot, Red Hot 1, Red Hot 2, Red Hot 3, Green Hot, Blue Hot				
Hot spot tracking	Available				
Compensation modes	Automatic, shutter and scene compensation				
Zero calibration	Available				
Line type	10 types				
Line brightness	10 levels				
Line color	Black / white				
Automatic shutdown	Closed, 15, 30 or 60 mins				
Language settings	Chinese or English				
System					
PIP	Upper left, Upper middle, Upper right, Closed, PIP with division line				
Restore to default	Available				
Start up	18 s				
Environmental	Environmental				
Operating temperature range	-40°C to 50°C				
Storage temperature ra	-40°C to 60°C				
Humidity	10 % to 95 % non-condensing				
Shock	500 G at 1 ms half sine pulse (as per IEC60068-2-27)				
Vibration	10 Hz - 150 Hz - 10 Hz 0.15 mm (as per IEC60068-2-6)				
Encapsulation	IP67				
Certification	IP67, CE, RoHS				
Physical					
Weight	≤660g	≤720g			
Size (L × W × H)	230 × 90 × 75 mm	250 × 90 × 75 mm			
Standard	Lens cap, battery charger, Picatinny rail base, video cable, manual, battery, carry ba				

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Technical parameters are subject to change without notice. For the latest information, please visit our website: www.guideir.com

Documents / Resources



<u>Guide Sensmart TS Series Thermal Rifle Scope</u> [pdf] Owner's Manual TS Series Thermal Rifle Scope, TS Series, Thermal Rifle Scope, Rifle Scope, Scope

References

• Guide Sensmart-Thermal Imaging Camera Manufacturer | Guide Sensmart

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