

TS Series Thermal Rifle Scope



TS Series is an economical civilian infrared thermal imaging riflescope that includes 25mm/35mm/50mm objective lenses. With 400x300 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 17μm@400x300 TEC metalencapsulated 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.
- 1024x768 resolution AMOLED eyepieces, colorful and detailed images
- Battery-mount user-friendly design, both side can be mounted, change battery easily in darkness.

Application

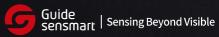
- Outdoor Observing
- Law Enforcement

Specifications

Madal	TCADE	TCAZE	TCAEO		
Model	TS425	TS435	TS450		
Infrared detector		Nov			
Detector type Detector resolution and pitch	V0x				
Spectral range	384 × 288, 17 μm				
NETD	8 to 14 μm ≤50mk @ F1 25℃				
Lens		< 3011k @ F1 23 C			
Focal length	25 mm; F1.1	35 mm; F1.2	50 mm; F1.2		
Focus	23 11111, 1 1.1	Manual	50 mm, 11.2		
Field of angle	14.9° × 11.2°	10.7° × 8.0°	7.5° × 5.6°		
Frame rate	14.7 ^ 11.2	10.7 ~ 8.0	7.5 ~ 5.6		
Output frame frequency		50 Hz			
Zoom		30112			
Optical zoom	1.6x	2.3x	3.3x		
Digital zoom	1.0X	1x, 2x and 4x	5.54		
Power		17, 27 010 47			
Battery type	Single, replaceable 18650 battery				
Battery life	\geq 4.5 hours				
Interface		2 4.0 Hours			
Video interface	LEMO				
External expansion	External Display				
Mechanical interface	Picatinny				
Display		r icuti inty			
Display type		0.39" OLED			
Resolution	1024 × 768				
Eyepiece	Exit pupil distance \geq 48 mm Exit pupil diameter \geq 8 mm Diopter ± 4				
Eyepiece zoom	Exit pupil distance \geq 46 mm Exit pupil diameter \geq 6 mm Diopter 1 4 14x				
Video output	Analog video				
Button					
Button functions		Power / Roller			
Functions					
Screen brightness adjustment		10 levels			
Detector brightness adjustment	10 levels				
Detector contrast adjustment	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, ^j	Upper middle, Upper right, Closed, PIP v	with division line		
Restore to default	Available				
Start up	18 s				
Environmental					
Operating temperature range		-40°C to 50°C			
Storage temperature range	-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)				
	IP67				
Encapsulation	IP67, CE, RoHS				
Certification		11 07, CE, 1(0115			
Certification					
Certification Physical		≤660g	≤720g		
Certification			≤720g 250 × 90 × 75 mm		

Specifications





Guide Sensmart Tech Co., Ltd. Loeffelholzstrasse 20, Haus 12 Eingang Nord, 90441 Nuremberg, Germany Email: enquiry@guide-infrared.com *Technical parameters are subject to change without notice. For the latest information, please visit our website:

