Manuals+ — User Manuals Simplified.

Guide sensmart TR Series Thermal Imaging Scope

Guide sensmart TR Series Thermal Imaging Scope Owner's Manual

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Product Information

Introduction

TR Series is an economical civilian infrared thermal imaging scope that adopts a high-sensitivity thermal detector with three different lens options 25 mm, 35 mm, and 50 mm. The TR Series offers sharp and detailed images while retaining accuracy. TR thermal scope also features a compact size, waterproof and dustproof, high shock resistance, rugged and durable, which performs impressively in any harsh weather.

Features and Benefits

- Outdoor Observing
- Law Enforcement

Wuhan Guide Sensmart Tech Co., Ltd.

- **www.guideir.com**
- +86 27 8129 8784
- **enquiry@guide-infrared.com**

Specifications

Standard	Optional
TR420	TR430

Product Usage Instructions

Powering On the Device

To power on the TR Series Thermal Imaging Scope, press and hold the power button located on the device until the display screen lights up.

Adjusting Lens Options

To change the lens options on your TR Series scope, carefully unscrew the existing lens and replace it with the desired lens option (25 mm, 35 mm, or 50 mm).

FAQ

- **Q: Can I use the TR Series Thermal Imaging Scope in heavy rain?**
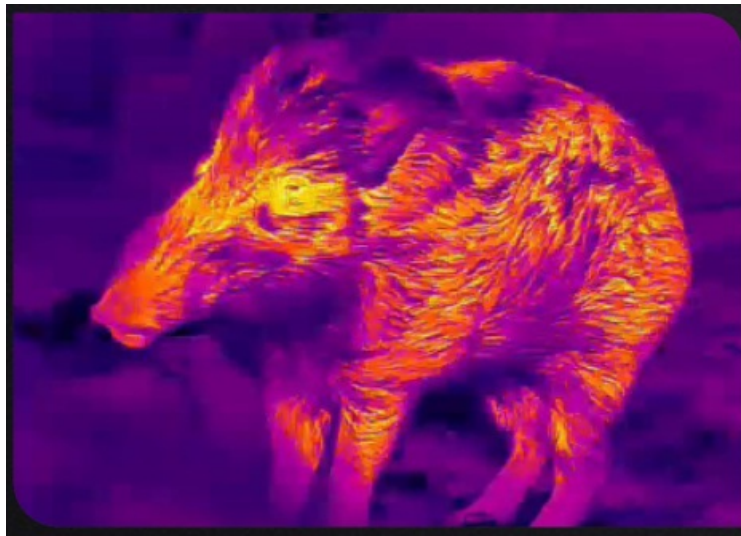
  A: Yes, the TR Series scope is waterproof and dustproof, allowing it to perform well even in harsh weather conditions.

- **Q: How long does the battery last on a single charge?**

  A: The replaceable 18650 battery provides up to 8 hours of continuous usage on a single charge.

Introduction

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Features and Benefits

- Fast and easy replaceable 18650 battery for 8 hours of operation
- 1024×768 resolution HD AMOLED display for image detail
- Support photo and video, record wonderful moments at any time, easy to share
- Screen freezing for quick and easy zeroing
- Support device firmware updates by connecting the TargetIR APP
- Get precise 600m laser ranging using an external range finder
- A wide range of operating temperatures (-30°C to 50°C)
- IP 67 dustproof and waterproof rated

Applications

- Outdoor Observing
- Law Enforcement

Specifications

Product model	TR420	TR430	TR450	TR620	TR630	TR650
Sensor						
Type	Uncooled VOx Infrared Detector, 8 to 14µm					
Resolution	384×288, 12µm			640×480, 12µm		
NETD	≤30mK					
Frame rate	50 Hz					
Lens						
Focal length	25 mm, F1.0	35 mm, F1.0	50 mm, F1.0	25 mm, F1.0	35 mm, F1.0	50 mm, F1.0
Field of angle	10.44°×7.87°	7.50°×5.64°	5.27°×3.95°	17.08°×13.03°	12.38°×9.38°	8.73°×6.60°
Optical zoom	2.4x	3.3x	4.7x	1.4x	2.0x	2.8x
Digital zoom	1x ~ 4x			1x ~ 8x		
Focus	Manual					
Display						
Display type	0.39'' AMOLED					
Resolution	1024×768					
Eyepiece	Exit pupil distance≥48 mm; Diopter ± 4; Zoom: 14x					
Video output	Analog video					
Range Performance						
Detection range	1000 m	1400 m	2000 m	1000 m	1400 m	2000 m

Functions	
Scene modes	Enhanced, Highlight and Natural
Colour palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot
Recording function	Photo/Video
WIFI	2.4G
Supported Application	TargetIR
Firmware OTA	Upgrade device firmware via app connection
Others	PIP, Hot spot tracking, Rough ranging
Power	
Battery type	Single, replaceable 18650 battery
Operating time	≥8 hours
Interface	
USB	USB Type-C
Mechanical interface	Picatinny
System	
Language settings	English / Russian / German / French / Italian / Spanish / Japanese / Korean
Memory capacity	32GB
Environmental	
Operating temperature	-30°C to 50°C
Storage temperature	-45°C to 70°C
Humidity	10 % to 95 % non-condensing
Shock	800 G at 1 ms half-sine pulse (as per IEC60068-2-27)

Drop	1m					
Encapsulation	IP67					
Certification	IP67, FCC, CE, RoHS, EAC, WEEE, UKCA, un38.3					
Physical						
Weight	≤540 g		≤590 g	≤540 g		≤590 g
Size	202×88×66 mm	208×88×66 mm	219×88×66 mm	202×88×66 mm	208×88×66 mm	219×88×66 mm
Standard	Type C cable, 5V2A adapter (US, Britain, Australia and Europe),18650 battery, Battery charger, lens cap, eye mask, quick start guide, warranty card					
Optional	18650 battery, Dovetail guide, Bluetooth remote control, Laser rangefinder					

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

Documents / Resources

	Guide sensmart TR Series Thermal Imaging Scope [pdf] Owner's Manual TR420, TR430, TR450, TR620, TR630, TR650, TR Series Thermal Imaging Scope, TR Series, Thermal Imaging Scope, Imaging Scope, Scope

References

- **User Manual**