

Thermal Imaging Riflescope

Enduring Performance, Day and Night



Introduction

TR Series is an economical civilian infrared thermal imaging riflescope that adopts high sensitivity thermal detector with three different lens options of 25 mm, 35 mm, 50 mm. The TR Series offers sharp and detailed images while retaining the accuracy. TR 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

- o Fast and easy replaceable 18650 battery for 8 hours of operation
- o 1024x768 resolution HD OLED 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 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 ObservingLaw Enforcement

Specifications

Product model	TR420	TR430	TR450	TR620	TR630	TR650
Infrared detector						
Detector type	V0x, 8 to 14 μm					
Detector resolution	384 × 288, 12 μm 640 × 480, 12 μm					
NETD	≤30 mk					
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	2.9x	4.1x	5.9x	1.8x	2.5x	3.5x
Digital zoom		1x ~ 4x			1x ~ 8x	1
Focus	Manual					
Power						
Battery type	Single, replaceable 18650 battery					
Battery life	≥ 8 hours					
Interface						
USB		Type C USE	2.0 for power supply,	data transfer, analog	video output	
Mechanical interface	Picatinny					
Display				,		
Display type			0.39"	OLED		
Resolution	1024 × 768					
Eyepiece	Exit pupil distance ≥ 48 mm, Diopter ± 4					
Eyepiece zoom						
Video output	Analog video					
Functions				,		
Recording function			Photo	/Video		
Hot spot tracking	Available					
Rough ranging	Available					
PIP	Upper left, Upper middle, Upper right, Closed, PIP with division line					
Scene modes	Enhanced, Highlight and Natural					
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot					
Compensation modes						
WIFI	Transmission of real-time video via WIFI for remote control in the 2.4G frequency band and within 15 meters					
Zero calibration	50 m / 100 m / 200 m / 300 m / 500 m					
Line type	6 types 10 types					
Other		0 ()pes	ΟΤΔ ι	ıpdate	10 (3)003	
System			01/10	putte		
Language settings		English / Russi	an / German / French /	Italian / Spanish / Ja	nanese / Korean	
Memory capacity	English / Russian / German / French / Italian / Spanish / Japanese / Korean 32GB					
Environmental			52	00		
Operating temperature			-30°C	to 50°C		
Storage temperature	-30°C to 50°C -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)					
Vibration	10 Hz~150 Hz~10 Hz 0.15 mm (as per IEC60068-2-6)					
	10 HZ~150 HZ~10 HZ 0.15 mm (as per 16,60008-2-6)					
Drop Encapsulation						
Certification						
Detection range	IP67, FCC, CE, RoHS, EAC, WEEE, UKCA, un38.3					
	1000	1400	2000	1000	1400	2000
Detection range	1000 m	1400 m	2000 m	1000 m	1400 m	2000 m
Physical		10 a	-500 -		10 a	-500 -
Weight		40 g	≤590 g		10 g	≤590 g
Size (L \times W \times H)	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 a	alamaan (110 Dulta in A	advalla and Error (1) 40			1