

# TR Series

Thermal Imaging Scope



Enduring Performance, Day and Night



## Introduction

TR Series is an economical civilian infrared thermal imaging scope 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 scope also features with compact size, waterproof and dustproof, high shock resistance, rugged and durable, which performs impressively in any harsh weather.



## Features

- o Fast and easy replaceable 18650 battery for 8 hours of operation.
- o 1024x768 resolution HD AMOLED display for image detail.
- o Video recording including synced audio.
- o Connect mobile APP for OTA firmware upgrade, Ballistic APP for ballistic solutions.
- o Screen freezing for quick and easy zeroing.
- o Get precise 600m laser ranging using an external range finder.
- o IP 67 dustproof and waterproof rated.

## Applications

- o Outdoor Observing
- o Law Enforcement



## Specifications

Product model	TR420	TR430	TR450	TR620	TR630	TR650
Sensor						
Type	Uncooled VOx Infrared Detector, 8 to 14μm					
Resolution	400×300@12μm			640×512@12μm		
NETD	25mK			20mK		
Frame rate	50 Hz					
Lens						
Objective lens	25mm, F1.0	35mm, F1.0	50mm, F1.0	25mm, F1.0	35mm, F1.0	50mm, F1.0
Field of view	11°×8.2°	7.8°×5.9°	5.5°×4.1°	17.5°×14°	12.5°×10°	8.8°×7°
FOV m@100m	19×14	14×10	10×7	31×25	22×17	15×12
Magnification	2.3x~9.2x	3.3x~13.2x	4.7x~18.8x	1.5x~12.0x	2.1x~16.8x	2.9x~23.2x
Detection range	1300m/1400yd	1800m/1950yd	2600m/2800yd	1300m/1400yd	1800m/1950yd	2600m/2800yd
Focus	Manual					
Display						
Display type	0.39" AMOLED 1024×768					
Color palettes	White Hot, Black Hot, Red Hot, Green Hot, Iron Red, Blue Hot, Sepia					
Eyepiece	Eye relief: 48mm; Diopter -4 to +4; Zoom: 14x					
Hardware						
WIFI	2.4G					
Interface	USB-C					
Others	Microphone, Bluetooth					
System						
Recording function	Photo/Video (Audio recording included)					
Memory capacity	32GB					
Power						
Battery type	Single, Replaceable 18650 Battery					
Operating time	8 hours					
Environmental						
Operating temp.	-30°C to 50°C / -22°F to +122°F					
Shock	800G (as per IEC60068-2-27)					
Encapsulation	IP67					
Physical						
Weight (g/oz)	564/19.89	565/19.93	638/22.50	578/20.39	575/20.28	682/24.06
Size (mm/in)	201×89×66/ 7.91×3.50×2.60	206×89×66/ 8.11×3.50×2.60	219×92×70/ 8.62×3.62×2.76	201×89×66/ 7.91×3.50×2.60	206×89×66/ 8.11×3.50×2.60	219×92×70/ 8.62×3.62×2.76
Standard	Device, Quick-Release Scope Mount, 18650 Battery, Battery Charger, 5V 2A Adapter (US, UK, Australia, and Europe), USB-A to USB-C Cable, Quick Start Guide, Warranty Card					
Optional	Bluetooth Remote Control, Laser Rangefinder, 18650 Battery					

\* Product performance is based on testing in a controlled laboratory environment. Your test results may vary due to several external and environmental factors.  
All specifications are subject to the actual product. The manufacturer reserves the right to modify technical specifications without notice or liability to you.