

640 50mm Thermal Imaging Rifle Scope with Integrated LRF

ZV-TSR502-L10

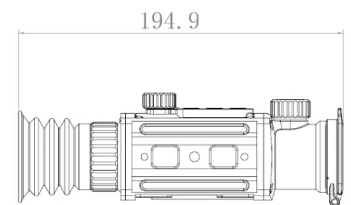
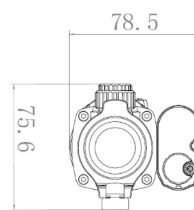


Feature

- 12 μ m Uncooled Infrared Detector, 640 $\times$ 512@50/60Hz
- 1600 $\times$ 1200 Resolution with 0.5-inch OLED Display
- Various Pseudo Colours for Different Scenarios
- AI-based Analysis & Intelligent ballistic function
- Multi-Sensing Environmental Awareness, LRF/Electronic Compass/Accelerometer/WIFI/GPS (Optional)
- Long battery life, up to 8-hour Runtime
- Ruggedized construction with a 1000g/0.4ms anti-shock rating & IP67
- Built-in EMMC (32GB)
- Compact size and light weight

Dimension

Unit: mm



Specifications

Infrared Detector

Image Sensor	UFPA (VOx)
Resolution	640 × 512
Pixel pitch	12μm
Frame rate	50Hz
NETD	≤35mk

Optical Parameter

Focal length / Aperture	50mm; F1.0
Field of view	8.8° × 7.0°
Focus Mode	Manual
Detection Range	≈ 2.2km (Vehicle)

Image Display

Screen	0.5-inch OLED
Resolution	1600 × 1200
Eye relief	45mm
Exit pupil	6mm
Brightness Adjustment	Support
Colour Palette	White Hot/Black Hot/Red Hot/Fusion/Golden Hot etc.
Digital Zoom	1×; 2×; 4×

Power supply

Battery type & number	1* 18650 Rechargeable li-ion
External power supply	5V DC / 2 A (USB Type-C)
Power Consumption	≤ 2.5 W
Battery Operating time	≥ 8 h (25°C)

Peripheral

Electronic compass	Support
Attitude sensor	Support
WIFI	Support; 2.4G
Storage	Built-in EMMC (32GB)
GPS	Support (Optional)
Laser Range Finder (LRF)	Distance Range: 1000m; Accuracy: ±1m

General

Interface	USB (Type-C)
Protection level	IP67
Operating temperature	-30°C to +60°C
Max. Recoil	1200g/0.4ms
Weight	≤ 595g (With Battery)
Dimension	194.9mm×75.6mm×78.5mm (With lens cover)