

EDRP2-R650R

Multifunctional Thermal Imaging Rifle Sight

640 x 512 Uncooled Thermal Sight - 50 mm, 1000 m Laser Rangefinder

The EDRP2-R650R is a multifunctional thermal imaging sight engineered for long-range observation and precision targeting. It combines a 640 x 512 / 12 um VOx uncooled detector, 50 mm F1.0 optics and a 1024 x 768 OLED display with a built-in 1000 m laser rangefinder, ballistic calculator and electronic compass - giving the operator target detection, range data and firing solutions in a single device.

With a detection range of up to 2600 m and thermal sensitivity of <= 20 mK, the EDRP2-R650R performs in complete darkness, through smoke and in adverse weather, making it suitable for observation, security and

KEY SPECIFICATIONS AT A GLANCE

Detection range	Laser rangefinder
up to 2600 m	1000 m, accuracy +/- 1 m
Magnification: 1.8x - 7.2x, 8.8 deg x 7.0 deg FOV	Runtime: up to 6 hours on 1 x 18650

TECHNICAL SPECIFICATIONS

Detector type	VOx uncooled infrared detector
Spectral range	8 - 14 um (LWIR)
Detector resolution	640 x 512 @ 12 um
NETD	<= 20 mK (@ 25 C, F1.0)
Frame rate	50 Hz
Objective lens focal length	50 mm
Field of view	8.8 deg x 7.0 deg (+/- 0.3 deg)
Magnification	1.8x - 7.2x
Exit pupil distance	48 mm
Diopter adjustment	-5 ~ +5
Detection distance	up to 2600 m
Display	OLED, 1024 x 768 (0.39 inch)
Laser rangefinder	1000 m, accuracy +/- 1 m
Ballistic calculator	Configurable profiles: ballistic coefficient, bullet weight, muzzle velocity, zero distance, sight height, rifling, temperature and pressure
Electronic compass	Bearing readout with calibration
Image functions	DDE digital detail enhancement, dead pixel correction, multiple palettes and reticles
Recording	Photo / video, 32 GB storage
Wireless	Built-in WiFi transmission to mobile devices
Interface	Built-in Type-C (charging and data)
Battery	1 x 18650 (field replaceable)
Continuous working time	up to 6 hours
Operating temperature	-20 C ~ +50 C
Impact resistance	1000 g
Protection level	IP67
Weight	516 g
Dimensions	215 x 63 x 81 mm

TYPICAL APPLICATIONS

Long-range thermal observation and surveillance, law enforcement and border security, precision shooting with ballistic