

Model



Detector Specifications			
Type	Uncooled Vox		
Resolution, pixels	384×288	640×512	
Pixel, m	12		
NETD,mK	≤ 25		
Frame Rate,hz	50		
Objective Focal Length			
Focal Length,mm	19/38	19/38	25/50
Optical Magnification,×	2.7×~21.3	1.6×~12.8	2.2×~17.6
Field of View(FOV),°	13.9×10.4/6.9×5.2	22.9 × 17.2 /11.5 × 8.7	17.5 × 13.1 /8.7 × 6.6
Detection Range (Targetsiz:1.7m×0.5m, P(n)=99%)	987/1974	987/1974	1298 / 2596
Digital Zoom	1×/2×/3×/4×		
Exit Pupil Distance,mm	20		
Exit Pupil Diameter,mm	5.5		
Diopter	-5~+5		
Display			
Type	FHD OLED		
Resolution, pixels	1440×1080		
Dimension	0.4"		
Battery			
Battery	Lithium-ion battery pack IBP-1/4400mAh/DC 3.7V		
Service Voltage,V	3~4.2		
External Voltage	5V (Type C USB)		
Physical Specifications			
Battery Life	12h※	10h※	
Memory Capacity	32GB		
Operating Temperature,°C	-20 ~+50		
Weight,g	540	580	650
Dimension	190×65×60	190×65×60	195×65×60



ZOOM Series

ZL38/ZH38/ZH50

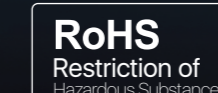
The Zoom is a high-end thermal imaging monocular for outdoor. It has greater magnification and keeps two unique technologies of ZOOM series: Dual Field of View, 1440×1080 HD Resolution.

With the ZOOM's patented dual-field-of-view design, observers can seamlessly switch between a wide field-of-view (FOV) for detection, and a narrow FOV for target identification. It could be extensively used for night hunting, observation and terrain positioning, search, rescue, and more.



IRay Technology Co., Ltd.

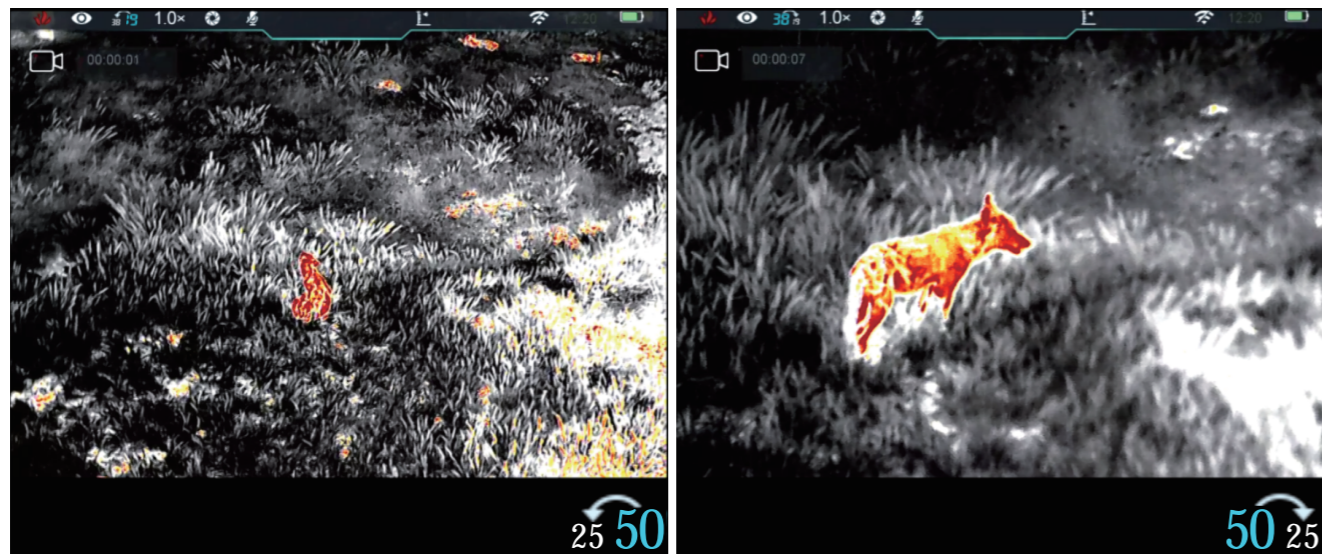
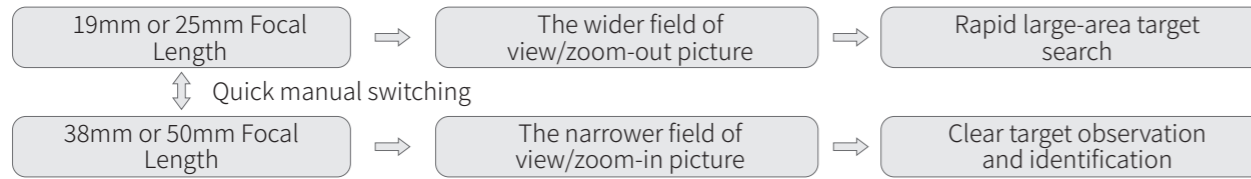
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Zoom's Two Unique Tech

Dual Field of View Design

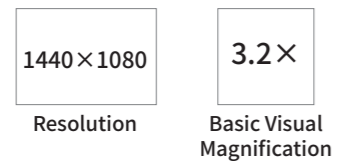
The wider FOV with a focal length of 25mm can be used for target search while the narrower FOV with a focal length of 50mm can be used for target identification.



The detection distance can reach up to 2.6km. With F-number 0.88/1.1, imaging clarity can be lifted to a new level.

1440×1080 FHD OLED Display

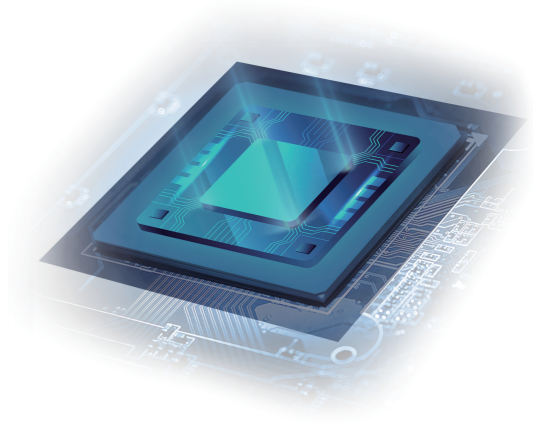
Using 1440×1080 FHD OLED display, the observation effect is more excellent. And the 20×magnification eyepiece makes the target search more accurate and the observation distance is longer.



Clearer Imaging

12μm Thermal Imaging Sensor with NETD ≤25mK

ZH50 is equipped with uncooled VOx 12um 640×512 high resolution sensor featuring NETD ≤25mk (25°C, F#=1.0). With the powerful sensor and image algorithm, better image quality is provided. Even in heavy fog and rain, the built-in ultra clear mode can also result in clear imaging through a more detailed field of view and enhanced object identification capabilities.



NETD ≤25mK

Long Endurance

10 hrs × 2 packs

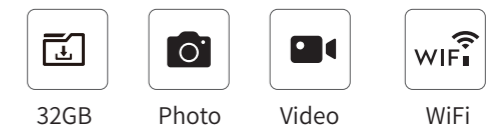
Using low-power components, lower power consumption, with a standard additional battery pack and a replaceable 4400mAh large-capacity lithium battery pack, battery life up to 20 hours.



Multiple Functions

32GB Storage & WiFi Connection

ZH50 is built with memory of 32GB which can support to store video and pictures. Built-in WiFi module supports APP connection and media transmission.



5 Color Palettes

For different hunting environments and personal habits, ZH38 provides more than 5 color palettes, including "white hot" "black hot" "red hot" "color" and "hot target highlight". Switching between different color palettes is fast and easy.



white hot black hot red hot color hot target highlight