




Model	 ZH38
Detector Resolution	640×512
Pixel Pitch, μm	12
NETD, mK	≤ 25
Frame Rate, Hz	50
Objective Lens, mm	19/38
Magnification, \times	1.6 ~ 12.8
Digital Zoom	1 \times /2 \times /3 \times /4 \times
Eye Relief, mm	20
Exit Pupil Diameter, mm	5.5
Display Resolution	1440×1080 FHD OLED
Display Size, inch	0.4
Battery	Lithium-ion battery pack IBP-1/4400mAh/DC3.7V
Max. Battery Life, h	10hours×2batteries
Amount of built-in memory, GB	32
Operating temperature, $^{\circ}\text{C}$	-20 ~ +50
Weight, g	580
Dimension, mm	190×65×60

High-end Thermal Imaging Monocular **ZOOM** Series ZH38

The ZH38 is a high-end thermal imaging monocular for outdoor. It has three "FIRSTS" in the industry, those are dual field of view (FOV), 1440×1080 high display resolution and shutterless technology. While maintaining the advantages of clear images, the ZH38 also has a variety of diversified color options, PIP, digital zoom, hot spot tracking, probability rangefinding and other functions. It could be extensively used for night hunting, observation and terrain positioning, search and rescue, etc.



IRay Technology Co., Ltd.

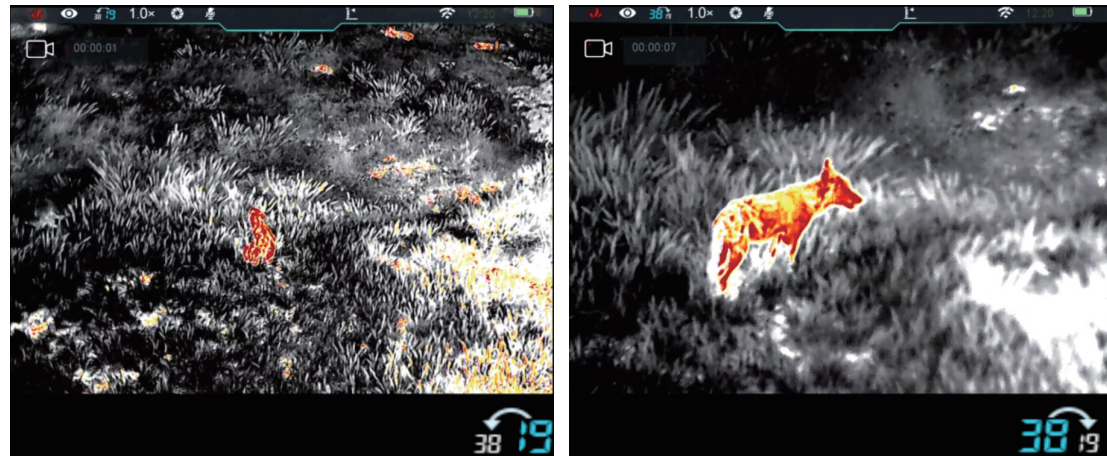
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Three "FIRSTS" in the Industry

Dual Field of View Design

The larger FOV with a focal length of 19mm is used for target search while the smaller FOV with a focal length of 38mm for target identification.



1440x1080 FHD OLED Display

Using 1440x1080 FHD OLED display, the observation effect is more excellent. And the 20x magnification eyepiece makes the target search more accurate and the observation distance is longer.

1440
x
1080
Resolution



3.2x
Basic Visual
Magnification

Shutterless Technology

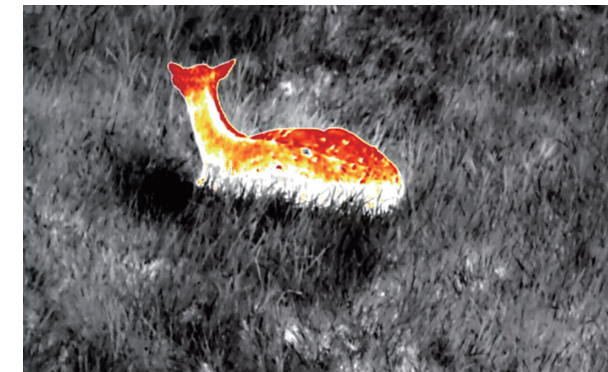
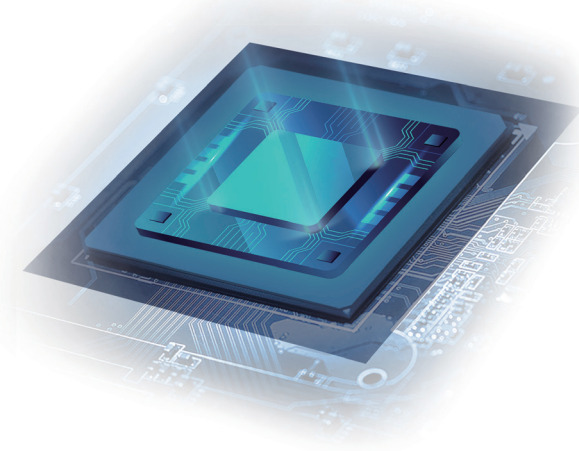
The shutterless core module is adopted to nullify the shutter calibration, simplify the operation.

Clear Imaging

12μm Thermal Imaging Sensor with NETD ≤25mK

ZH38 is equipped with uncooled Vox 12μm 640x512 high resolution sensor featuring NETD ≤25mK (25°C, F#=1.0). With the powerful sensor and image algorithm, better image quality is provided.

NETD ≤25mK



Built-in Ultra clear Mode

The built-in ultra clear mode is especially designed for harsh weather conditions, such as in heavy fog and rain. Ultra clear mode can result in a more detailed field of view and enhanced object identification capabilities.

Worry-free Use

10hoursx2batteries

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.

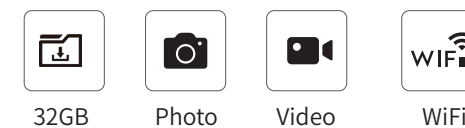
Battery Life=10h x 2



Multiple Functions

32GB Storage

ZH38 is built with memory of 32GB which can support to store video and pictures, while the built-in WiFi module supports APP applications.



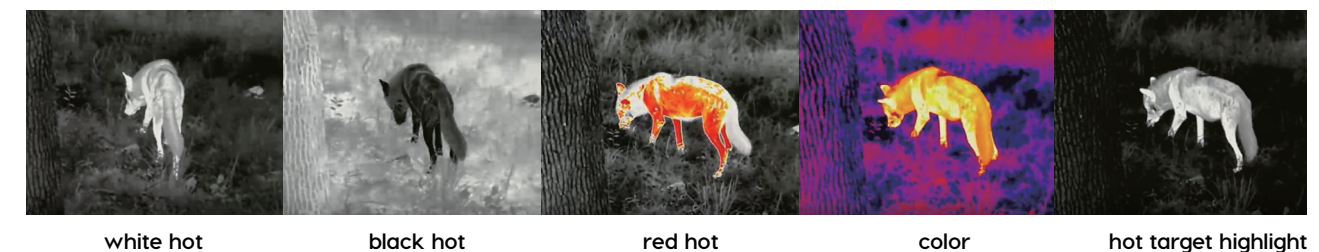
PIP Function

The ZH38 provides a 2x magnified area on the top to help to magnify the target while keeping the rest of the field of view visible.



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