Model

ZH50 V2

Detector Specifications	
Type	Uncooled Vox
Resolution, pixels	640×512
Pixel size, μm	12
NETD, mK	≤ 25
Frame rate, Hz	50
Optical Specifications	
Objective Lens, mm	25/50
Field of View(H×V), °	17.5×13.1 / 8.8×6.6
Linear Field of View(H×V), m at 100m	31×23 / 15×12
Magnification, ×	2~8 / 4~16
Detection Range, m (Target size: 1.7m×0.5m, P(n)=99%)	1300 / 2600
Eye Relief, mm	20
Exit pupil Diameter, mm	5.5
Diopter, D	-5 ~ +5
Display Specifications	
Type	FHD AMOLED
Resolution, pixels	1440×1080
Battery Power Supply	
Battery	Replaceable li-ion battery Pack IBP-1/4400Ah
Max. Operating Time (t=22ºC)*, h	10
External Power Supply, V	5 (Type C)
Physical Specifications	
Wi-Fi/APP	Support (InfiRay Outdoor)
Photo/Video Recorder	Support
MIC	Support
Memory Capacity, GB	32
IP rating	IP67
Operating Temperture，℃	-20 ~ +50
Weight，g	≤710
Dimension，mm	220×59×75

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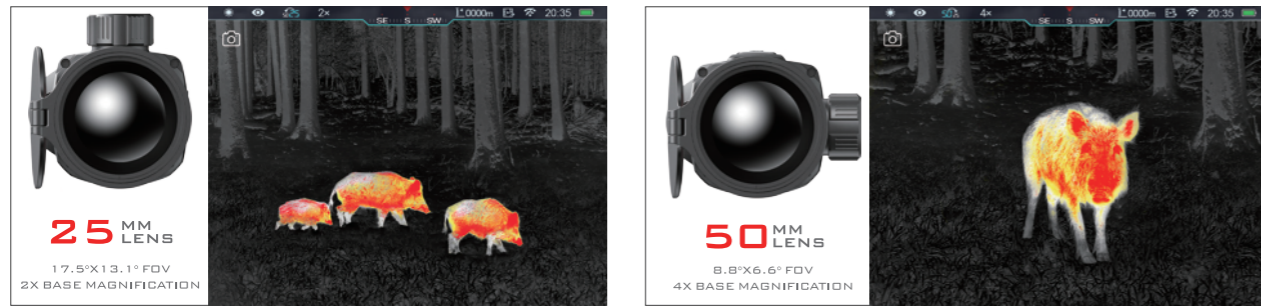
ZOOM Series

ZH50 V2

As the pioneer that put dual FOV into thermal optics, InfiRay has hit the market again with the upgraded dual field of view monocular-ZH50 V2. There are four reasons that we need to choose ZH50 V2: One device with an adjustable field of view; No refocus and seamless switch; Ultra-clear Imaging and long-time hunting via 2 battery packs. ZH50 V2 will be the perfect choice if you want to experience the easy dual field of view adventure, it is the right tool you need to take your hunt to the next level.
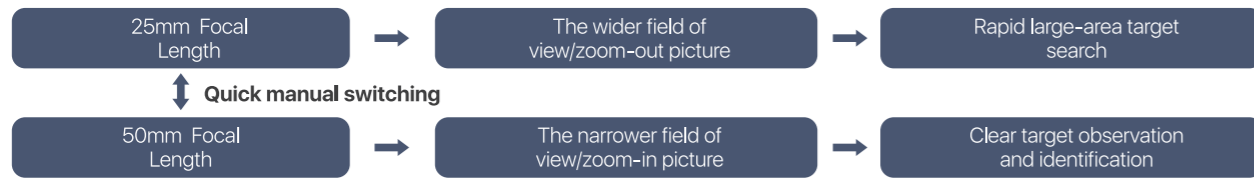
CE CONFORMITE EUROPEENNE   FC   RoHS Restriction of Hazardous Substances   UKCA

No Refocus & Seamless Switching

Just 2 steps for seamless switching between dual-field of view: Sharp picture quality can be achieved with only one-time focus; twist the focus ring for seamless switching between dual-field of view, and the sharp image quality can continue to be maintained without refocusing.

25 MM LENS 17.5°X13.1° FOV 2X BASE MAGNIFICATION

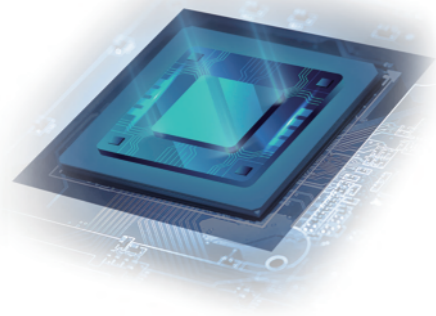**50 MM LENS** 8.8°X6.6° FOV 4X BASE MAGNIFICATION

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

25mm Focal Length	→	The wider field of view/zoom-out picture	→	Rapid large-area target search

↕ **Quick manual switching**

50mm Focal Length	→	The narrower field of view/zoom-in picture	→	Clear target observation and identification

12μm Sensor with NETD ≤25mK

ZH50 V2 is equipped with an uncooled vox 12um 640×512 high-resolution sensor featuring NETD ≤25mK. With the powerful sensor and image algorithm, better image quality is provided.
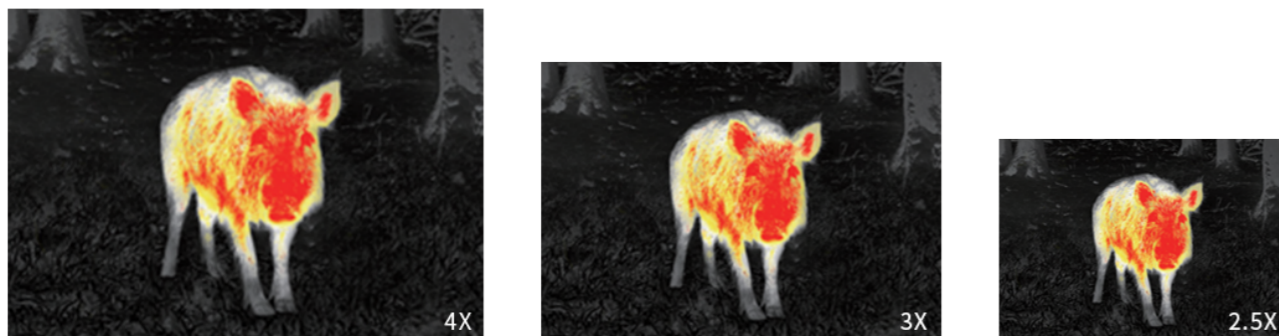
NETD ≤25mK

AMOLED 1440×1080 Display

ZH50 V2 adopts a 1440×1080 FHD AMOLED display which offers better layers and contrast, the observation effect is more excellent.
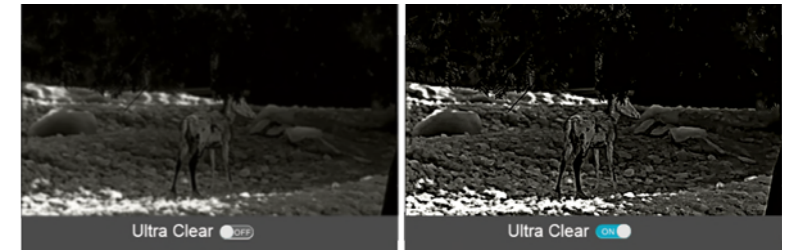
1440×1080 AMOLED

4X base magnification

High-resolution AMOLED display with a high-magnification optical system provides clearer picture quality and more excellent observation experience. You can freely choose either 2x or 4x base magnification. Clearer observation and identification of targets at long distances can be achieved with 4x base magnification.
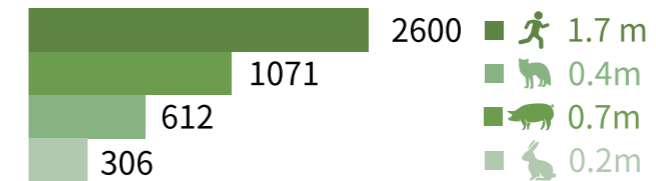
4X   3X   2.5X

Ultra-clear Mode

Even in heavy fog and rain, the built-in ultra-clear mode can also guarantee clear imaging through a more detailed field of view and enhanced object identification capabilities.

Ultra Clear OFF   Ultra Clear ON

Long Detection Range

With advanced imaging sensor and lens，detection range of a 1.7m target can reach up to 2600m.

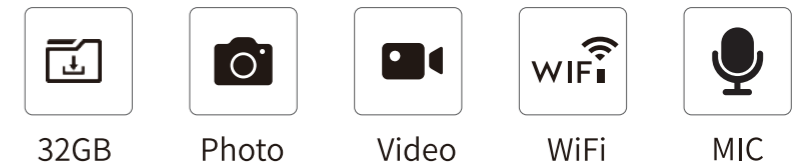2600   🏃 1.7 m
1071   🐺 0.4m
612   🐗 0.7m
306   🐰 0.2m

Long Battery Life

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

Battery Life=10h×2

Photo/Video/MIC/32GB

The built-in Mic of ZH50 V2 supports synchronized audio input. It is built with memory of 32GB which can support storing video and pictures. Built-in WiFi module supports APP connection and media transmission.

32GB   Photo   Video   WiFi   MIC

5 Color Palettes

ZOOM ZH50 V2 provides more than 5 color palettes for true colorized temperature mapping, 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