



Thermal Imaging Monocular Unique Series

UH35/UH50

UNIQUE series is a next-level professional handheld thermal imager. Equipped with a high-performance infrared sensor, full-color high-resolution HD AMOLED display and up to $\times 20$ eyepiece, it prides itself on an excellent imaging effect. Paired with a replaceable 4400mAh high-capacity lithium-ion battery pack, the UNIQUE series ensures up to 2 \times 10 hours of endurance.



Model	UH35	UH50
Detector Specifications		
Type	Uncooled Vox	
Resolution, pixels	640 \times 512	
Pixel size, μm	12	
NETD, mK	≤ 25	
Frame rate, Hz	50	
Optical Specifications		
Objective Lens, mm	35	50
Field of View(H \times V), $^{\circ}$	12.6 \times 19.4	8.8 \times 6.6
Linear Field of View(H \times V),m at 100m	22 \times 16	15 \times 12
Magnification, \times	3~12	4~16
Detection Range, m (Target size: 1.7m \times 0.5m, P(n)=99%)	1800	2600
Eye Relief, mm	20	
Exit pupil Diameter, mm	5.5	
Diopter, D	-5 ~ +5	
Display Specifications		
Type	FHD AMOLED	
Resolution, pixels	1440 \times 1080	
Battery Power Supply		
Battery	Replaceable li-ion battery Pack IBP-1/4400Ah	
Max. operating Time(22 C)*, 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 Tempeture, $^{\circ}\text{C}$	-20 ~ +50	
Weight, g	≤ 540	≤ 650
Dimension, mm	195 \times 65 \times 60	205 \times 65 \times 60



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Full-screen high-definition AMOLED display

The UNIQUE series is designed with a built-in 0.4-inch full-color HD display, up to 1440x1080 in resolution. Coupled with the x20 eyepiece, it presents a clearer and more comfortable vision to greatly improve the human eye observation experience. Up to x4 basic visual magnification plus x4 electronic amplification enhances significantly the observation experience of users.



1440x1080

Resolution

UH35

3.0x

Basic Visual Magnification

UH50

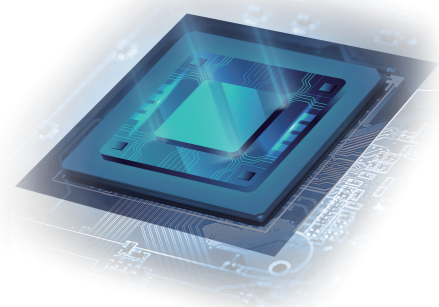
4.0x

Basic Visual Magnification

12μm Sensor with NETD ≤25mK

UNIQUE is equipped with an uncooled vox 12μm 640x512 high-resolution sensor featuring NETD ≤25mK. With the powerful sensor and image algorithm, better image quality is provided.

NETD ≤25mK



Ultra-long battery endurance

Ultra-low power consumption design, paired with a replaceable 4400mAh high-capacity lithium-ion battery pack, ensures up to 20 hours of endurance that allows for long-time hunting.



Battery Life=10h x 2



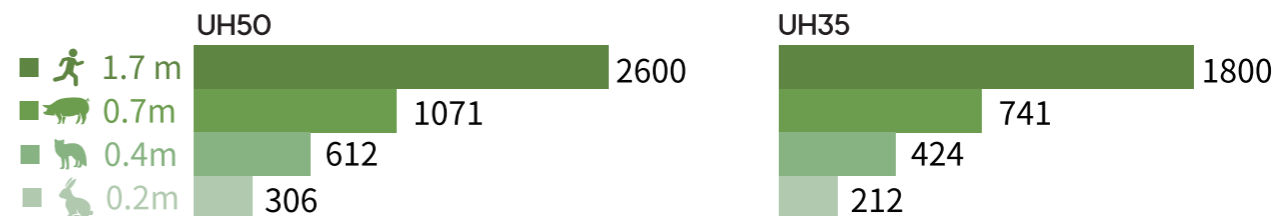
Ultra-clear Mode

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.



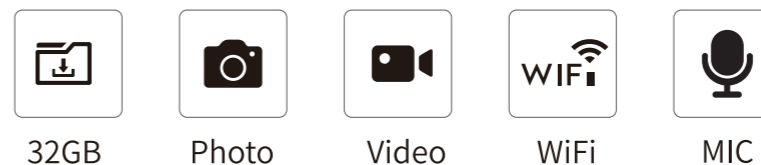
2600m Detection Range

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



Photo/Video/MIC/32GB

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



5 Color Palettes

UNIQUE 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