



Model		 UH35	 UH50
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	35	50	
Field of View(H×V),°	12.5×9.4	8.8×6.6	
Linear Field of View(H×V),m at 100m	22×16	15×12	
Magnification, ×	3~12	4~16	
Detection Range, m (Target size: 1.7m×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	1440×1080		
Battery Power Supply			
Battery	Replaceable li-ion battery Pack IBP-1/4400Ah		
Max. operating Time(22℃)*, 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, °C	-20 ~ +50		
Weight, g	≤540	≤650	
Dimension, mm	195×65×60	205×65×60	



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# 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 ×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 2×10 hours of endurance.







### Full-screen high-definition AMOLED display

The UNIQUE series is designed with a built-in 0.4-inch full-color HD display, up to 1440×1080 in resolution. Coupled with the ×20 eyepiece, it presents a clearer and more comfortable vision to greatly improve the human eye observation experience. Up to ×4 basic visual magnification plus ×4 electronic amplification enhances significantly the observation experience of users.



1440×1080

Resolution

UH35

3.0×

Basic Visual  
Magnification

UH50

4.0×

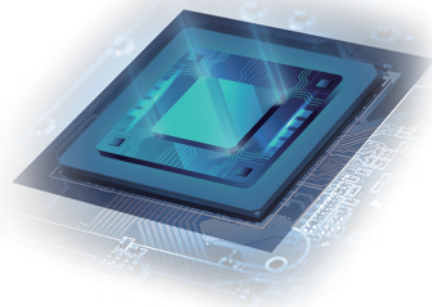
Basic Visual  
Magnification



### 12μm Sensor with NETD ≤25mK

UNIQUE 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



### 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.

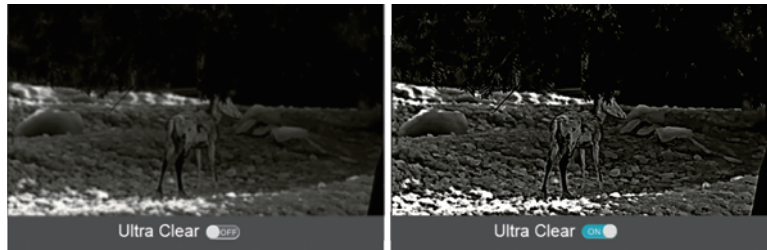


Battery Life=10h×2



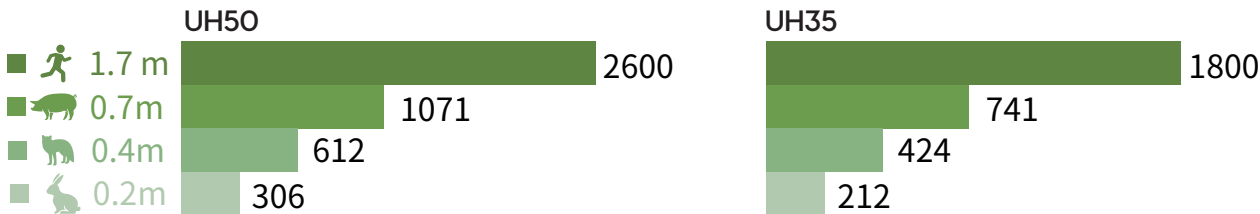
### Ultra-clear Mode

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.



32GB



Photo



Video



WiFi

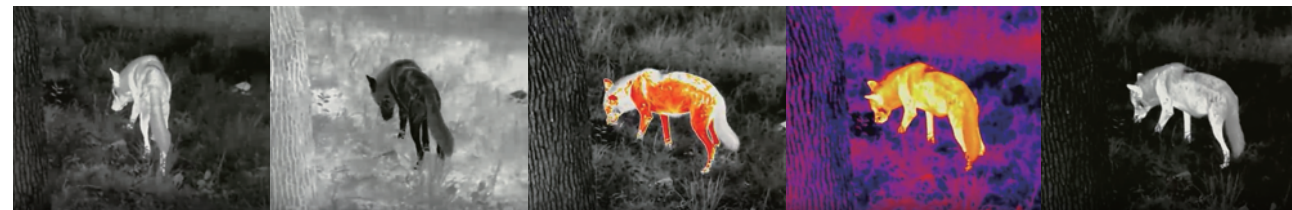


MIC



### 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