

HP-MRC Series

Portable Thermal Binocular



*The picture is for reference only, the appearance of the product is subject to the actual production

System Overview

This series Long Range Thermal Imaging Camera products are based on the latest 7th generation uncooled infrared technology. It also equipped a low-light visible cameras for colorful clear night vision with starlight. IP66 protection to enable the camera works well in severe weather conditions. It has advantage like low weight, low consumption.

Technical Specification

Thermal Camera

Image Sensor	Vox Detector
Effective Pixels	640(H)x512(V)/ 384(H)x288(V)
Pixel Size	12μm
Thermal Sensitivity (NETD)	≤50mK@f/4.0
Spectral Range	7 ~ 14μm
Pseudo Color	Pseudo color and B/W, B/W inverse
Digital Zoom	1~4X
Strong Light Protect	Support

Functions

GPS	CEP <2m
E-compass	Azimuth accuracy <0.8°(RMS)
LRF	10~1200m (905nm eye safe)
WIFI	Support

Display/Record

Display	1024x768 0.5 OLED
Eyepiece Zoom	12x (adjustable view)
Storage	32GB
Video Output	USB 2.0 / Analog

- 384x288, 640x512 thermal sensor
- 50/75/100mm thermal lens
- Support WIFI, GPS, Electronic compass
- NETD 50mk enhance the imaging details
- IP66 and - 30 °C low temperature resistance

Visible Camera

Detector	Ultra-Low light colorful CMOS
Resolution	1920×1080
Focal Length	75mm
Features	3D DNR, Auto shutter, Wide dynamic

Thermal Lens

Focal Lens	50mm;75mm; 100mm
FOV (384x288, 17μm)	50mm: 5.3°× 4.0° 75mm: 18.5°×13.9° 100mm: 3.7°×2.8°
FOV (640x512, 17μm)	50mm: 12°×9° 75mm: 8°×6° 100mm: 6.2°×5.0°
Effective Distance (Vehicle: 2.3x2.3m)	Vehicle (2.3x2.3m): 50mm: 4.2km (D); 1.2km (R); 0.6km (I) 75mm: 6.3km (D); 1.8km (R); 0.9km (I) 100mm: 8.6km (D); 2.4km (R); 1.2km (I)
D: Detection	Human (1.8x0.5m):
R: Recognition	50mm: 1.6km (D); 0.5km (R); 0.25km (I)
I: Identification	75mm: 2.5km (D); 0.7km (R); 0.35km (I) 100mm: 3.4km (D); 0.9km (R); 0.45km (I)

Power

Battery	26650
Working Hours	>6 hours

Environmental

Working Temp	-30℃ ~ + 60℃
Protection	IP66
Dimension	250x190x85mm
Weight	1.1kg