

HP-TC Series

LWIR Thermal Security Camera



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

System Overview

TC Series Ultra Long Range Thermal Camera is developed based on the latest 6th IR technology. Featuring high NETD, advanced digital circuit and image processing algorithm, the camera provides users crisp thermal images. One integral aluminum alloy housing makes sure the camera works well outdoor. In combination with 360-degree PT, the camera can conduct 24 hours real-time monitoring. The camera is IP66 rates, which ensures camera's normal operation under tough weather conditions.

Technical Specification

Thermal Camera

Image Sensor	5th generation uncooled FPA sensor
Effective Pixels	640(H)x512(V)
Pixel Size	17μm
Thermal Sensitivity (NETD)	≤45mK@f/4.0
Spectral Range	7.5 ~ 14μm, LWIR
SDE	Support SDE digital image processing
Pseudo Color	16 pseudo color and B/W, B/W inverse
Frequency	50Hz
Digital Zoom	8X
Strong Light Protect	Support
Temp Correction	Thermal imaging clarity is not affected by temperature
Scene mode	Support multi-configuration scenarios
Lens Servo	Support lens preset, focal length return and location
Azimuth Information	Support angle real-time return and positioning
Parameter Setting	OSD Menu Remote Call Operations.

- 384x288, 640x512, 1280x1024 thermal sensor
- 75/105/120/155/190/230/300mm thermal lens
- 3X/5X/10/15X optical zoom with 8X digital zoom
- NETD 45mk enhance the imaging details
- IP66 and - 40 °C low temperature resistance

Thermal Lens

Focal Lens	25~75mm;21~105mm; 30~120mm; 31~155mm; 38~190mm;22~230mm;20~300mm
FOV	25~75mm: 24°×18°~8°×6° 21~105mm: 18.5°×13.9°~3.7°×2.8° 30~120mm: 12.4°×9.3°~3.1°×2.3° 31~155mm: 12.4°×9.3°~2.5°×1.8° 38~190mm: 10.6°×8°~2.1°×1.6° 22~230mm: 17°×12.6°~1.7°×1.3° 20~300mm: 18.5°×14.0°~1.2°×1.9°
Effective Distance (Vehicle: 2.3x2.3m)	25~75mm: 6.3km (D); 1.8km (R); 0.9km (I) 21~105mm: 18.5°×13.9°~3.7°×2.8° 30~120mm: 12.4°×9.3°~3.1°×2.3° D: Detection R: Recognition I: Identification
Effective Distance (Human: 1.8x0.5m)	25~75mm: 2.5km (D); 0.7km (R); 0.35km (I) 21~105mm: 8.6km (D); 2.4km (R); 1.18km (I) 30~120mm: 10km (D); 2.8km (R); 1.3km (I) D: Detection R: Recognition I: Identification
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PTZ

Patrol	6*patrol route, 1* patrol line
Rotation	Pan: 0~360°, tilt: -90~+90°
Speed	Pan: 0.01~30°/S, Tilt: 0.01~15°/S
Preset	3000

Interface

Ethernet	RS-485, RS-232, RJ45
Video Output	PAL/NTSC
Power	AC12V /DC24V
Compression	H.265 / H.264 / MJPEG

Environmental

Operate Temp	-25℃ ~+55℃ (-40℃ optional)
Storage Temp	-35℃ ~+75℃
Humidity	<90%
Ingress Protect	IP66
Housing	PTA t coating, Seawater corrosion resistance
Anti-fog/salty	PH 6.5~7.2

Order Information

TC6307WZ	25~75mm,640x512
TC6511WZ	21~105mm, 640x512
TC6512WZ	30~120mm, 640x512
TC6516WZ	31~155mm, 640x512
TC6519WZ	38~190mm, 640x512
TC61023WZ	22~230mm, 640x512
TC61530WZ	15~300mm, 640x512