

# HP-CTC Series

## MWIR Cooled Thermal Security Camera



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

### System Overview

CTC Series Ultra Long Range Cooled Thermal Camera is developed based on the latest cooled 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	Cooled Focal Plane Array (FPA) MCT HgCdTe detector
Effective Pixels	640(H)x512(V)
Pixel Size	15μm
Thermal Sensitivity (NETD)	≤20mK@f/4.0
Spectral Range	3.7 - 4.8μm, MWIR
SDE	Support SDE digital image processing
Pseudo Color	16 pseudo color and B/W, B/W inverse
Cooling	Stirling cryocooler (Life time 8000~10000 hrs)
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.

- 640x512, 1280x1024 thermal sensor
- 300/450/660/800/1100mm thermal lens
- 10X/15X/20X optical zoom with 8X digital zoom
- NETD 20mk enhance the imaging details
- IP66 and - 40 °C low temperature resistance

### Thermal Lens

Focal Lens	30~300mm 15~300mm 22~450mm 30~660mm 40~800mm 90~1100mm
FOV	30~300mm: 18.2°×14.6°~1.8°×1.5° 15~300mm: 35°×28°~1.8°×1.46° 22~450mm: 24.6°×19.8°~1.2°×1.0° 30~660mm: 18.2°×14.6°~1.8°×1.5° 40~800mm: 13.6°×11°~0.7°×0.51° 90~1100mm: 6.1°×4.9°~0.5°×0.4°
Effective Distance (Vehicle: 2.3x2.3m)	300mm: 18km (D); 7km (R); 3.5km (I) 22~450mm: 19km (D); 9km (R); 4.5km (I)
D: Detection R: Recognition I: Identification	30~660mm: 20km (D); 11km (R); 5.5km (I) 40~800mm: 20km (D); 13km (R); 7km (I) 90~1100mm: 22km (D); 15km (R); 8km (I)
Effective Distance (Human: 1.8x0.5m)	15~300mm: 11km (D); 3.5km (R); 1.8km (I) 22~450mm: 12km (D); 4.5km (R); 2.3km (I)
D: Detection R: Recognition I: Identification	30~660mm: 14km (D); 6.3km (R); 3.2km (I) 40~800mm: 15km (D); 8km (R); 4km (I) 90~1100mm: 18km (D); 9km (R); 4.5km (I)

### 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

CTC61532WZ	15~300mm, 640x512
CTC63030WZ	30~300mm, 640x512
CTC62245WZ	22~450mm, 640x512
CTC63066WZ	30~660mm, 640x512
CTC64080WZ	40~800mm, 640x512
CTC690110WZ	90~1100mm, 640x512