

HP-ZS30-TVC Series

Gyro Image Stable EO/IR Camera



*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 and with continuous zoom infrared optical technology. It also equipped with high resolution daylight camera with defog function for long distance daytime details observation. The camera has speed of 300° /s fast rotation and optional for 2-axis gyro-image stabilization functions on the application of ship/boat/vehicle mounted.

Technical Specification

Thermal Camera

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|----------------------------|--|
| Image Sensor | Vox Detector |
| Frequency | 50Hz |
| Pixel Size | 17μm |
| Thermal Sensitivity (NETD) | ≤45mk |
| Spectral Range | 7 ~ 14μm |
| Effective Pixels | 640(H)x512(V) |
| Pseudo Color | 16 pseudo color and B/W, B/W inverse |
| AGC | Support |
| Digital Zoom | 8X |
| Strong Light Protect | Support |
| Temp Correction | Thermal imaging clarity is not affected by temperature |
| 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. |
| Life Index Recording | Working/shutter times, ambient/sensor temperature |

- 384x288, 640x512 thermal sensor
- 21~105mm LWIR thermal lens
- 32X/36X/47X/62X CCTV lens
- 2 axis gyro image stabilization
- IP66 and - 40 °C low temperature resistance

Thermal Lens

| | |
|---|---|
| Focal Lens | 21-105mm, 5X |
| FOV (LWIR, 17μm) | 21-105mm: 30°x23°~6.2°x4.6° |
| Effective Distance (Vehicle: 2.3x2.3m) | Detection: 8.6km Recognition: 2.4km Identification: 1.18km IVS Range: 3km |
| Effective Distance (Human: 1.8x0.5m) | Detection: 3.4km Recognition: 1.7km Identification: 0.9km IVS Range: 1.1km |
| Fire Detection | 5km |

Visible Camera

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|-------------------|--------------------------------------|
| Sensor | 1/2.8" Star Level CMOS |
| Resolution | 1920(H)x1080(V) |
| Frame Rate | 32Kbps~16Mbps, 60Hz |
| Min. Illumination | 0.0005Lux (Color), 0.0001Lux (B/W) |
| SD Card | Support |
| Defog | Support SDE digital image processing |
| BLC/WDR/HLC | Yes |
| AGC | Support |
| Digital Zoom | 16X |

Visible Lens

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|---------------------|--|
| Focal Lens | 5.5~180mm 32X; 6.5~240mm 36X 7~330mm 47X; 8~500mm 62X |
| Image Stabilization | Support |
| Focus Control | Manual/Auto |

PTZ

| | |
|----------|--|
| Patrol | 6*Patrol Route |
| Rotation | Pan: 0~360°, Tilt: -15~+90° |
| Speed | Pan: 0.01~300°/S, Tilt: 0.01~200°/S |
| Preset | 255 |
| Accuracy | 0.2° |
| Gyro | Accuracy-2mrad (RMS), two-axis gyro stable, shakes \leq ±10° |

Interface

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|----------|---|
| Ethernet | RS-485, RS-232, RJ45 |
| Protocol | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, ONVIF |
| Power | DC24V |

Environmental

| | |
|-----------------|--|
| Operate Temp | -25°C~+55°C (-40°C optional) |
| Storage Temp | -35°C~+75°C |
| Humidity | <90% |
| Ingress Protect | IP67 |
| Housing | PTA t coating, Seawater corrosion resistance |
| Anti-fog/salty | PH 6.5~7.2 |
| Power | 150W (Peak) |

Order Information

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|---------------------|--|
| ZS30-TVC6511-1930WZ | Thermal: 21~105mm, 640x512 Visible: 2mp, 5.5~180m |
| ZS30-TVC6511-2121WZ | Thermal: 21~105mm, 640x512 Visible: 2mp, 6.5~240m |
| ZS30-TVC6511-2130WZ | Thermal: 21~105mm, 640x512 Visible: 2mp, 7~330m |
| ZS30-TVC6511-2150WZ | Thermal: 21~105mm, 640x512 Visible: 2mp, 8~500m |

Technical Specification

