# HM-TD7168-75/W
# Thermal Panoramic Scanner

HIKMICRO HM-TD7168-75/W Thermal Panoramic Scanner is equipped with intelligent GPU and continuously spinning to support 360° panoramic perimeter detection and dynamic fire detection. In addition, it could link PTZ to ensure precise alarm by video verification. It is applied in coastal security and critical infrastructure like oilfield, airports etc.

- 360° panoramic view within one camera
- 640 × 512 resolution 12 μm, VOx UFPA, NETD ≤ 25 mK (25 °C, F# = 1.0)
- Perimeter detection based on intelligent algorithm: intrusion, region entrance and exit
- Fire detection algorithm
- Alarm linkage: Link other PT cameras to track moving targets when alarms triggered

## ▪ Specification

| | |
|---|---|
| **Thermal Module** | |
| Image Sensor | VOx Uncooled Focal Plane Arrays |
| Resolution | 39144 x640 |
| Pixel Pitch | 12 μm |
| NETD | ≤ 25 mK (@25° C,F# = 1.0) |
| Focal Length | 75 mm |
| Focus Mode | Semi-auto & Manual |
| IFOV | 0.16 mrad |
| Aperture | F1.0 |
| Field of View | 360° × 5.9° (H × V) |
| Min. Focusing Distance | 8 m |
| **Image Effect** | |
| Target Coloration | Supported in white hot and black hot mode |
| **PTZ** | |
| Movement Range | Pan: 360° Continuous Rotate; Tilt: From -25° to + 45° |
| Pan Speed | 360° / 4.93s |
| **Smart Function** | |
| VCA | Support 3 VCA rule types (Intrusion, Region Entrance, and Region Exiting), up to 200 VCA rules |
| Fire Detection | Dynamic fire point detection, up to 200 fire points detectable |
| **Video and Audio** | |
| Main Stream | 25 fps (4096 × 2160) |
| Sub-stream | 25 fps (512 × 640) |
| Video Compression | Main stream: H.265/H.264<br>Sub-stream: H.265/H.264 |
| **Network** | |
| Protocols | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE |
| Network Storage | MicroSD/SDHC/SDXC card (up to 256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) |
| API | ISAPI, HIKVISION SDK, Open Network Video Interface (Profile S, Profile G, Profile T) |
| Simultaneous Live View | Up to 20 channels |
| User/Host level | Up to 32 users, 3 levels: Administrator, Operator, User |
| Security | User authentication (ID and Password), MAC address binding, HTTPS encryption, IEEE 802.1x(EAP-MD5, EAP-TLS), access control, IP address filtering |
| Client | iVMS-4200, Hik-Connect, Hik-Central, HCP |

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|---|---|
| Web Browser | Live view (plug-in allowed) : Internet Explorer 11<br>Live view (plug-in free) : Chrome 57.0 +, Firefox 52.0 +<br>Local service : Chrome 57.0+, Firefox 52.0 + |
| **Interface** | |
| Alarm Input | 1-ch inputs (0 to 5 VDC) |
| Alarm Output | 1-ch relay outputs, alarm response actions configurable |
| Alarm Action | SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage |
| Communication Interface | 1, RJ45 10 M/100 M/1000 M Self-adaptive Ethernet interface.<br>1, RS-485 interface |
| **General** | |
| Menu Language | 32 languages<br>English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil) |
| Power Supply | 30 VDC~60 VDC, two-core terminal block |
| Power Consumption | Max. 150 W |
| Working Temperature/Humidity | From -40°C to 60°C (-40°F to 140°F); Humidity: 90% ± 3% (no condensation) |
| Protection Level | IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection |
| Dimensions | 408 mm × 310 mm × 407 mm |
| Weight | Approx. 25kg (55.1 lb) |
| **Detection Range Table** | |
| VCA Range for Humans | 1500 m |
| VCA Range for Vehicles | 4500 m |

## ▪ Range Table

| VCA Range (Humans: 1.8 × 0.5 m) | VCA Range (Vehicles: 1.4 × 4.0 m) | VCA Range (Vessels: 20 × 5 m) | VCA Range (Drones: 45 × 45 cm) | Fire Detection (Object: 2 × 2 m) |
|---|---|---|---|---|
| 1.5 km | 4.5 km | 6 km | 1 km | 6.3 km |

## ▪ DORI

* The table is only for reference and the performance may vary according to different environment
Note: Effective distance values shown are nominal values and should be used as estimates only. Exact value calculations depend on a wide variety of conditions

| Target type | Detection Range | Recognition Range | Identification Range |
|---|---|---|---|
| Human (1.8 × 0.5 m) | 3.1km | 0.8km | 0.4km |

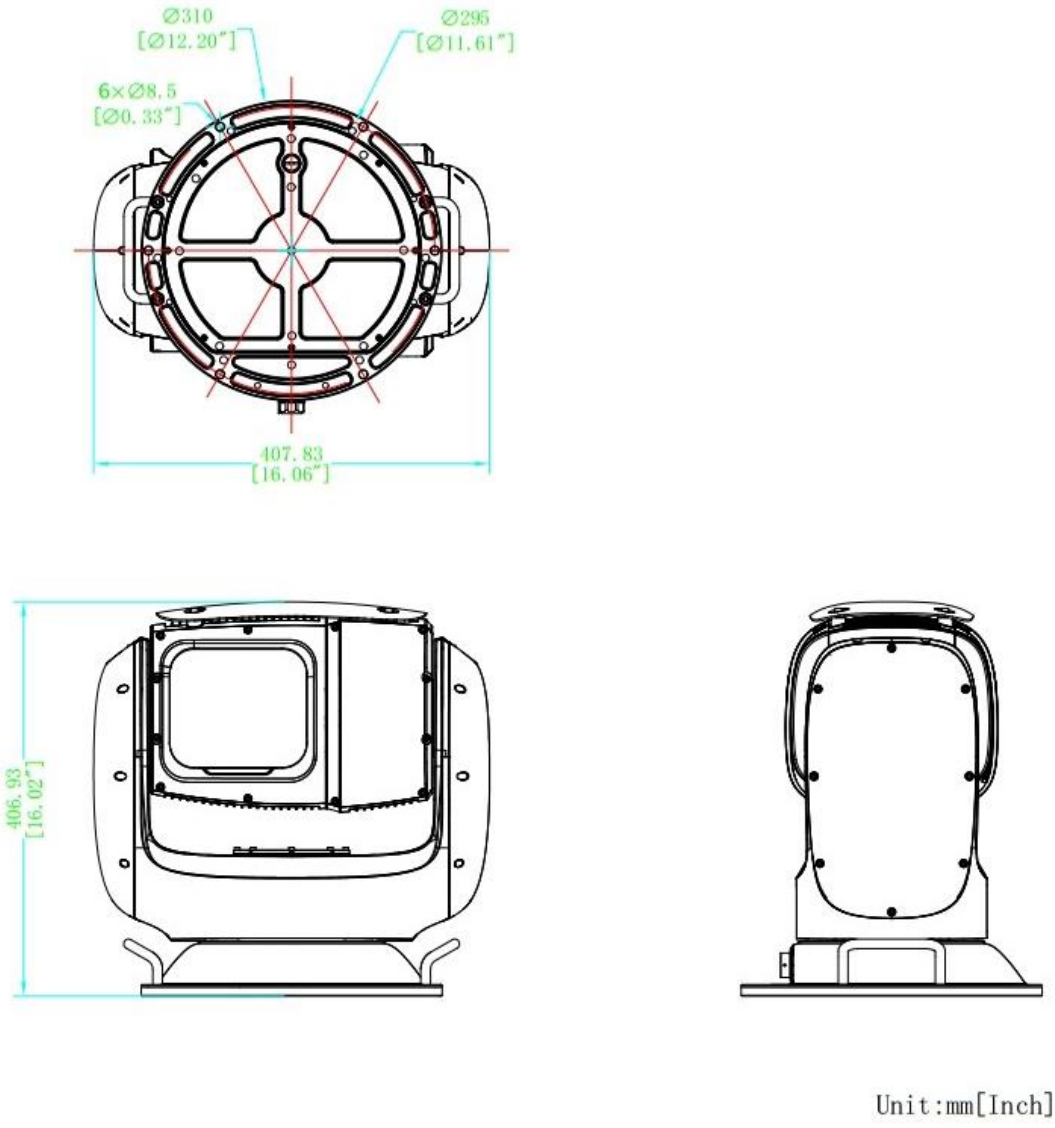
| | | | |
|---|---|---|---|
| Vehicle (2.3 × 2.3m) | 9.6km | 2.4km | 1.2km |
| Ship (10 × 5m) | 32.1km | 8.0km | 4.0km |
| Ship (20 × 5m) | 41.7km | 10.4km | 5.2km |

## ▪ Available Model

SUB-TD7168-75/W

HM-TD7168-75/W

## ▪ Dimension




Unit:mm[Inch]

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Building A1, No. 299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang

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