

# Dual-spectrum Speed Dome

## PD225T



### Product Features

- Clearer and farther image with the latest 12μm infrared detector and leading algorithm.
- Visual and thermal dual-spectrum imaging for 24/7 safety surveillance.
- Support intelligent behavior analysis such as dual-spectrum region intrusion and tripwire intrusion, support AI human-vehicle classification.
- Support professional temperature measurement analysis tools and intelligent fire detection algorithm.
- Support multi-event linkage alarm and audible-visible alarm.
- Support intelligent scene configuration, support multiple scanning mode and target tracking.
- Support DC12V or PoE.
- Support standard ONVIF protocols, SDK and accompanying NVR and software are available.

## Product Specifications

| Technical Index |                        | Dual-spectrum Speed Dome   |             |
|-----------------|------------------------|--|-------------|
| Thermal         | Sensor Type            | VOx, uncooled FPA  |             |
|                 | Spectral Range         | 8~14μm   |             |
|                 | NETD                   | ≤40mK(@25°C,F#1.0,25Hz)  |             |
|                 | Resolution             | 256×192  |             |
|                 | Pixel Pitch            | 12μm   |             |
|                 | Lens Focal Length      | 7mm  | 10mm        |
|                 | Focus Mode             | Athermalized fixed focus   |             |
|                 | FOV                    | 24.8°×18.7°  | 17.5°×11.3° |
|                 | F#                     | 1.0  |             |
|                 | Spatial Resolution     | 1.7mrad  | 1.2mrad     |
|                 | Color Palettes         | 20 modes available such as Whitehot/Blackhot/Rainbow.                            |             |
| Visible         | Sensor                 | 5MP 1/2.8" Progressive Scan CMOS   |             |
|                 | Resolution             | 2560×1920  |             |
|                 | Lens Focal Length      | 5.4~108mm  |             |
|                 | Focus Mode             | Auto/Semi-auto/Manual  |             |
|                 | FOV                    | 43.5°×34.5°~4.7°×3.6°  |             |
|                 | Day/Night              | ICR Auto / Digital color to B/W  |             |
|                 | IR Illuminator         | Max. supplement light range:50m  |             |
| PT              | Pan Range              | 360° continuous rotation   |             |
|                 | Pan Speed              | 0.1°~120°/s  |             |
|                 | Tilt Range             | 0°~90°   |             |
|                 | Tilt Speed             | 0.1°~60°/s   |             |
|                 | Presets                | 255  |             |
|                 | Scan Mode              | Preset/Tour/Pattern Scan/ Linear Scan/Area Scan                                  |             |
| Network         | Protocols              | IPv4,HTTP,HTTPS,FTP,SMTP,UPnP,DNS,DDNS,NT P,RTSP,RTCP,RTP,TCP,UDP,IGMP,ICMP,DHCP |             |
|                 | Interoperability       | ONVIF, SDK   |             |
|                 | Simultaneous Live View | Max. 8   |             |
|                 | User Management        | Up to 32 users, divided into 3 levels: administrator, operator and ordinary user |             |
|                 | Browser                | Support browsers such as Chrome, Mozilla Firefox, Edge, etc,                     |             |
| Video           | Max. Resolution        | 2560×1920 (visible), 1280×960 (Thermal)  |             |
|                 | Image Encoding Format  | JPEG   |             |

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|                                  | Audio Compression                | G.711a/G .711u/AAC/PCM   |
|                                  | Video Compression                | H.264/H.265  |
|                                  | Main Stream                      | Visible:<br>50Hz:25fps (2560×1920,2560×1440,1920×1080)<br>60Hz:30fps(2560×1920,2560×1440,1920×1080)<br>Thermal:<br>50Hz:25fps(1280×960,1024×768)<br>60Hz:30fps(1280×960,1024×768)      |
|                                  | Sub Stream                       | Visible:<br>50Hz:25fps(1920×1080,1280×720,704×576,352×288)<br>60Hz:30fps(1920×1080,1280×720,704×480,352×240)<br>Thermal:<br>50Hz:25fps(640×480,320×288)<br>60Hz:30fps(640×480,320×240) |
| Temperature Measurement Function | Temperature Measurement Range    | -20℃~+550℃   |
|                                  | Temperature Measurement Accuracy | ±2℃ or ±2%, the larger value shall prevail   |
|                                  | Temperature Measurement Analysis | Support temperature measurement tools such as full frame/ point/ line/ region and linkage alarm  |
| Smart Function                   | Fire Alert                       | Support fire detection   |
|                                  | Smart Recording                  | Alarm trigger recording, disconnection trigger recording   |
|                                  | Malfunction Detection            | Support alarm trigger of network disconnection, IP address conflict, SD card error, illegal access, burning alert and abnormal detection   |
|                                  | Smart Detecting                  | Support smart event analysis such as human-vehicle classification, tripwire intrusion, region intrusion  |
|                                  | Voice Talkback                   | Support two-way voice talkback   |
|                                  | Alarm Linkage                    | Video recording/Snapshot/alarm output/ sending Email/ PTZ linkage/Audible and visual alarm   |
| System Interface                 | Power Supply                     | DC 12V±25% / PoE(802.3af/at)   |
|                                  | Communication                    | 1 RJ45 self-adaptive 10M / 100M Ethernet port  |
|                                  | Audio                            | 1-channel audio input, 1-channel audio output, 1-channel built-in Speaker  |
|                                  | Alarm Interface                  | 2-channel alarm input, 2-channel alarm output  |
|                                  | Memory                           | Support Micro SD card (maximum 256G)   |
|                                  | Reset Button                     | Support  |

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| General         | Communication        | 1-channel RS485          |
|                 | Operating Conditions | -40℃~+70℃; <95%RH        |
|                 | Ingress Protection   | IP66                     |
|                 | Power Consumption    | Max.20W                  |
|                 | Dimension(mm)        | 265×147.5×248.7          |
|                 | Weight               | 2480g                    |

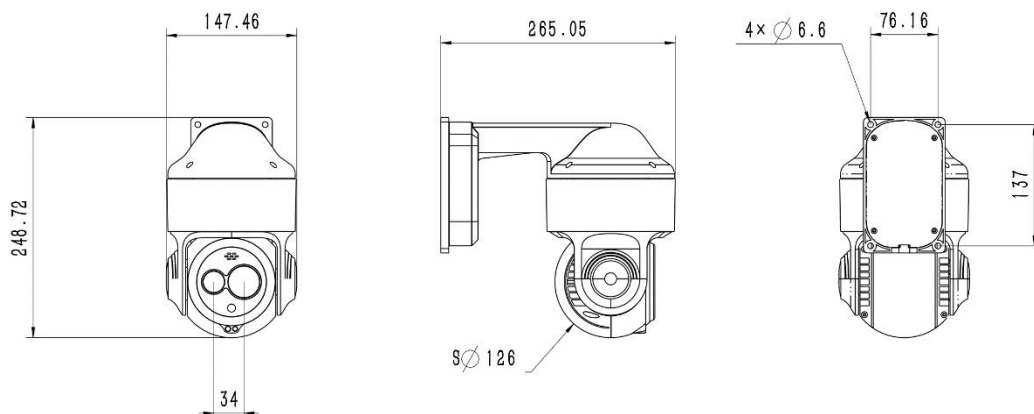
## Effective Range

The recommended distance of detection, recognition and identification for human (1.8×0.5m) and vehicle (1.4×4.0m) are as follows:

- DD stands for Detection Distance;
- RD stands for Recognition Distance;
- ID stands for Identification Distance;

| Lens | DD<br>(Vehicle) | DD<br>(Human) | RD<br>(Vehicle) | RD<br>(Human) | ID<br>(Vehicle) | ID<br>(Human) |
|------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
| 7mm  | 894m            | 292m          | 224m            | 73m           | 112m            | 36m           |
| 10mm | 1278m           | 417m          | 319m            | 104m          | 160m            | 52m           |

## Structural Drawings



This datasheet is subject to change without prior notice. Please contact us to get the latest datasheet.