

DH-SDT4E425-4F-GB-A-PV1

4MP 25X TiOC WizSense Network PTZ Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

System Overview

Designed with more lens than the conventional PTZ camera, the X-Spans series camera captures an expansive view, producing wide, vivid images. It has the combined power of the panoramic and detail camera in its structure and is highly cost-effective, greatly reducing the installation cost of security systems. It also leverages its two cameras to perform smart tracking, and has an independent mode that allows you to separately use each camera.

Functions

Starlight Technology

For challenging low-light conditions, Dahua's Starlight Ultra-low Light Technology offers the best in light sensitivity, capturing color in vivid detail, even in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

- · Panorama: 1/2.8" 4Megapixel F1.0 STARVIS™ CMOS.
- · Detail: 1/2.8"4Megapixel STARVIS™ CMOS.
- · 25x optical zoom.
- · Max. 25/30fps@4M.
- · IR distance up to 100 m.
- · Auto tracking 3.0.
- · Smart tracking.
- · Perimeter protection.
- · Active deterrence.
- · Smart dual light +.













Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

| Technical Specification | 1 | Power-off Memory | Yes | |
|----------------------------|--|---|---|--|
| Camera | | Idle Motion | Pattern; Preset; Scan; Tour | |
| Image Sensor | Panorama: 1/2.8" CMOS; Detail: 1/2.8" CMOS | Intelligence | | |
| Pixel | Panorama: 4 MP; Detail: 4 MP Panorama: 2560 (H) × 1440 (V); | IVS (Perimeter Protection) | Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linking the detail camera to track | |
| Max. Resolution | Detail: 2560 (H) × 1440 (V) | Auto Tracking | objects Yes | |
| ROM | Panorama: 4 GB; Detail: 4 GB | SMD | SMD4.0 | |
| RAM | Panorama: 1 GB; Detail: 1 GB | Quick Pick | Yes | |
| Electronic Shutter Speed | Panorama: 1/3s-1/100000s; Detail: 1s-1/30000s | Active Deterrence | | |
| Scanning System | Progressive | Light Warning | Red-blue light warning Flash duration: 5 s-30 s | |
| Min. Illumination | Panorama: 0.001 lux@F1.0 (Color, 30 IRE); 0.0005 lux@F1.0 (B/W, 30 IRE); 0 lux (illuminator on); Detail: 0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@ | Sound Warning | Flash frequency: high, medium, low Offers 11 sound alarms and supports importing custom sound alarms. | |
| | F1.6 (Color, 30 IRE); 0 lux (illuminator on) | Video | Video | |
| Illumination Distance | Panorama: 30 m (98.43 ft) (IR); 30 m (98.43 ft) (white light); Detail: 100 m (328.08 ft) (IR) 50 m (164.04 ft) (white | Video Compression | H.265; H.264B; H.264; H.264H; MJPEG(Sub Stream 1); smart H.265+; smart H.264+ | |
| | light) | Streaming Capability | 3 streams | |
| Illuminator On/Off Control | Panorama: Auto; Manual; Off; Detail: Zoom Prio; Auto; Manual; Off Panorama: 2 (IR); 2 (white light); | | Panorama: 4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P | |
| Illuminator Number | Detail: 2 (IR); 2 (dual light Fusion) | | (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 ×288/352 × 240) | |
| Lens | | Resolution | Detail: 4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × | |
| Focal Length | Panorama: 2.8 mm; Detail: 5 mm–125 mm | 1296); 1080P (1920 × 1080); 1.3M (1280 × 960); 7 (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 480); CIF (352 × 288/352 × 240) | | |
| Max. Aperture | Panorama: F1.0; Detail: F1.6–F3.6 | | Main stream: 4 MP/3 MP/1080p/1.3 MP/720p@ | |
| Field of View | Panorama: H: 101°; V: 53°; D: 120°; Detail: H: 51.9°–3.0°; V: 39.7°–2.2°; D: 63.1°–3.7° | Video Frame Rate | (1–25/30 fps) Sub stream 1: D1/CIF/VGA@(1–25/30 fps) Sub stream 2: 1080p/1.3 MP/720p@(1–25/30 fps) | |
| Optical Zoom | Panorama: NA; Detail: 25× | Bit Rate Control | CBR/VBR | |
| Focus Control | Auto; semi-auto; manual | Video Bit Rate | H264: 96 Kbps-14848 Kbps | |
| Close Focus Distance | Panorama: 0.2 m (0.66 ft); Detail: 0.1 m-0.5 m (0.33 ft-1.64 ft) | Day/Night | H265: 38 Kbps–8960 Kbps Auto (ICR)/Color/B/W | |
| Iris Control | Auto; manual | BLC | Yes | |
| DODI Distance | Detect Observe Recognize Identify | WDR | 120 dB | |
| DORI Distance | 2500 m 987.5 m 500 m 250 m (8202.10 ft) (3239.83 ft) (1640.42 ft) (820.21 ft) | HLC | Yes | |
| PTZ | | White Balance | Auto; indoor; outdoor; tracking; manual; sodium | |
| Pan/Tilt Range | Pan: 0° to 360° endless; Tilt: –15° to +90°, auto flip 180° | | lamp; natural light; street lamp | |
| Manual Control Speed | Pan: 0.1°/s–200°/s; Tilt: 0.1°/s–120°/s | Gain Control Noise Reduction | Auto; manual 2D NR; 3D NR | |
| Preset Speed | Pan: 240°/s; Tilt: 200°/s | Motion Detection | Yes | |
| Preset | 300 | Region of Interest (RoI) | Yes | |
| Tour | 8 (up to 32 presets per tour) | Image Stabilization | EIS | |
| Pattern | 5 | Defog | Electronic | |
| Scan | 5 | Digital Zoom | 16× | |

| Image Rotation | 180° |
|-----------------------|--|
| S/N Ratio | ≥ 55 dB |
| Audio | |
| Audio Compression | PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723 |
| Network | |
| Network Port | RJ-45 (10/100 Base-T) |
| Network Protocol | FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPP0E; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP |
| Interoperability | ONVIF(Profile S&G&T);CGI;SDK |
| Streaming Method | Unicast/Multicast |
| User/Host | 20 (total bandwidth: 64 M) |
| Storage | Micro SD card (512 GB); FTP/SFTP; NAS |
| Browser | IE 9 and later versions; Chrome 41 and later versions; Firefox 50 and later versions; Safari 10 and later versions |
| Management Software | DMSS; DSS Pro |
| Mobile Client | iOS; Android |
| Certification | |
| Certifications | CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 |
| Port | |
| Audio Input | 1 channel (LINE IN, bare wire) |
| Audio Output | 1 channel (LINE OUT, bare wire) |
| Alarm Input | 2 (on-off value input: 0–5 VDC) |
| Alarm Output | 1 |
| Alarm Linkage | Capture; recording; send email; preset; tour; pattern; alarm digital input; audio; warning light |
| Alarm Event | Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection |
| Power | |
| Power Supply | 12 VDC, 3 A ± 10%; PoE+ (802.3at) |
| Power Consumption | Basic: 12 W Max. (Basic power consumption + illuminator+sound and light warning +PTZ operation + Heater): 25 W (12 VDC) |
| Environment | |
| Operating Temperature | -40 °C to +65 °C (-40 °F to +149 °F) |
| Operating Humidity | ≤95% |
| Protection | TVS 6000 V lightning proof;IP66; surge protection; voltage transient protection |

Structure

| Product Dimensions | 160.0 mm × 184.4 mm × 304.6 mm (6.30" × 7.26" × 11.99")(L × W × H) |
|--------------------|--|
| Net Weight | 3.41 kg (7.52 lb) |

| Ordering Information | | | | |
|--|-----------------------------|--|--|--|
| Туре | Model | Description | | |
| 4MP 25X TiOC WizSense Network PTZ Camera | DH-SDT4E425-4F-GB- A-PV1 | 4MP 25X TiOC WizSense Network PTZ Camera | | |
| | SDT4E425-4F-GB-A-PV1 | 4MP 25X TiOC WizSense Network PTZ Camera | | |
| Accessories | PFB305W | Wall Mount Bracket | | |
| | DC12V/3A | Power Adapter | | |
| | PFA126 | Mount Adapter | | |
| | PFA111 | Mount Adapter | | |
| | PFB300C | Ceiling Mount Bracket | | |
| | PFB301C | Ceiling Mount Bracket | | |
| | PFA151 | Corner Mount Bracket | | |
| | PFA150 | Pole Mount Bracket | | |
| | PFB303S | Parapet Mount Bracket | | |
| | PFB301S-E | Plane Mount Bracket | | |

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DC12V/3A Power Adapter



PFA126 Mount Adapter



PFA111 Mount Adapter



PFB300C Ceiling Mount



PFB301C Ceiling Mount Bracket



PFA151 Corner Mount Bracket



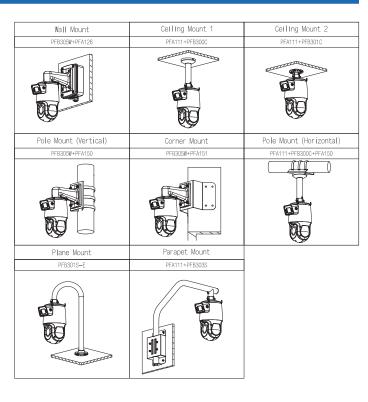
PFA150 Pole Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



45.9 [1.81]

Dimensions (mm[inch])

