

DH-SDT5X425-4Z4-FA-2812

4MP Starlight IR WizMind Network Dual-PTZ Camera





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

System Overview

The multi-sensor series blends the functions of panoramic and detail cameras into its powerful design. Both the panoramic and detail cameras of this model can freely rotate on their domes to track multiple targets in a scene from different angles while keeping an eye on the monitored area. The panoramic camera is used in intelligent detection, and the detail camera is for auto-tracking. They also harness the strength of their embedded AI chips to perform a wide variety of intelligent functions, making them ideal for use in many scenarios.

Functions

Dual-PTZ System

Both the panorama camera and detail camera of the Dual-PTZ system can be moved horizontally and vertically.

Face Recognition

Face attributes are extracted from captured faces, and stored in a database where they can be conveniently searched for and compared against other images. Once a successful match is found, the system outputs the result. The Dahua Face Recognition camera supports a built-in database that stores up to 10,000 face images, allowing the camera to capture and compare face images in real time.

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 0.001 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

- · Dual PTZ system, dual vari-focal lens.
- 1/1.8" 4Megapixel CMOS.
- · Powerful 25× optical zoom.
- · Starlight technology.
- · Max. 25/30 fps@4M.
- Deep-learning-based auto tracking and perimeter protection.
- · Support Hi-PoE.
- · H.265 Encoding.
- IP67.















PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

Video Metadata

Metadata is information on the attributes of targets that is extracted during monitoring. It can be used for data retrieval. There are four kinds of metadata supported by Dahua PTZ WizMind cameras: Human face, human body, motor vehicle and non-motor vehicle. Face information includes gender, age, glasses, masks, beards, and more. Human body information includes hat, top, top color, bottom, bottom color, bag, and more. Motor vehicle information includes plate color, type, vehicle color, sun visor, ornament, calling, seatbelt, smoking, annual inspection sticker, and more. Non-motor vehicle information includes type, color, top type, top color, people number, and more.

Smart tracking

Automatically tracks moving targets, keeping them on the monitoring screen. With its flexible design, human, motor vehicle and non-motor vehicle targets can be set to be tracked. These parameters can also be combined. Targets are immediately tracked when detection rules (such as tripwire and intrusion) are triggered.

Perimeter Protecton

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.

Interoperability

The camera conforms to ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of the manufacturer.

| Electronic Shutter Speed | Technical Specification | | Preset | 300 |
|--|--------------------------------|--|----------------------------|---|
| Pare | Camera | | Tour | 8 (up to 32 presets per tour) |
| Pare | Image Sensor | | Scan | 5 |
| Max. Resolution Parameter Max. Resolution Parameter Para | Pixel | Panorama: 4 MP | Power-off Memory | Yes |
| Max. Resolution | | | Idle Motion | Preset; Scan; Tour |
| Manual A C C C C C C C C C | Max. Resolution | | PTZ Protocol | |
| Electronic Shutter Speed Paramaran: 14-1/30,000 s Detail: 14-1/30,000 s | ROM | 8 GB | Intelligence | |
| Securing System | RAM | | Vidoo Motadata | extraction |
| Propressive | Electronic Shutter Speed | | video ivietadata | |
| Min. Illumination | Scanning System | Panorama: | IVS (Perimeter Protection) | detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human |
| Color 0001 | Min Illumination | B/W: 0.0001 lux@F1.3 | Face Recognition | Yes |
| Manual Control Speed Panorama (white light) | wiii. iiiuiiiiiatioii | Color: 0.001 lux@F1.6 | Video | |
| Detail (Right): 10 or (328.08 ft) Detail (Right): 10 or (328.08 ft) Detail (200 ft) (28.08 ft) (28.0 | | 0 lux (IR light on) | Video Compression | H.265; H.264B; H.264; H.264H; MJPEG; smart H.265+; smart H.264+ |
| Manual Control Panorama: | Illumination Distance | Detail (IR light): | Streaming Capability | 3 streams |
| Pancrama: 4 white legits | Illuminator On/Off Control | Panorama: Zoom Prio; Manual; Auto; Off | Resolution | 4M (2688 × 1520); 4M (2560 × 1440); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 |
| Panorama: 2.8 mm - 1.2 mm | | - | | 4M (2688 × 1520); 4M (2560 × 1440); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 |
| Detail: 5.4 mm - 135 mm | Lens | Panarama: 2.8 mm_12 mm | | Panoramic: Main stream: 4M/1080p/1.3M/720p |
| Panorama: H: P-10-4.0 Panorama: H: P3-02**45.8°, V: 59.7°+27.0°, D: 110.4° Sub stream 1: D1/VGA/CIF (1-25/30 fps) Sub stream 2: 1080p/1.3M/720p/CIF (1-25/30 fps) Sub stream 2: 1080p/1.3M | - | Detail: 5.4 mm–135 mm | Video Frame Rate | Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p/CIF (1–25/30 fps) |
| Sub stream 2: 1080p/1.3M/720p/CF (1-25/30 fps | Max. Aperture | | ail: F1.6-F4.0 | |
| Panorama: 4x Detail: 25x Video Bit Rate Control CBR; VBR | Field of View | 51.7° | | Sub stream 2: 1080p/1.3M/720p/CIF (1–25/30 fps) |
| Video Bit Rate H.264: 912 KBps-1305 kBps H.265: 024 kbps-7396 kbps H.265: 024 kbps-7396 kbps Panorama: 1 m ≥ 5 m (3.28 ft = 8.20 ft) Detail: 0.5 m → m (1.64 ft = 22.97 ft) Detail: 0.5 m → m (1.64 ft = 22.97 ft) Panorama: 2 m (1.64 ft = 22.97 ft) Panorama: 3 m (1.64 ft = 22.97 ft) Panorama: 4 m (1.64 ft = 22.97 ft) Panorama: 4 m (1.64 ft = 22.97 ft) Panorama: 4 m (1.64 ft = 22.97 ft) Panorama: 5 m (1.64 ft = 22.97 ft) Panorama: 4 | Optical Zoom | Panorama: 4× | Bit Rate Control | , |
| Panorama: 1 m - 2.5 m (3.28 ft - 8.20 ft) Detail: 0.5 m - 7 m (1.64 ft - 22.97 ft) | | | Video Bit Rate | |
| Detail: 0.5 m - 7 m (1.64 ft - 22.97 ft) | | | Day/Night | ` <i>'</i> |
| Detail: Auto | Close Focus Distance | Detail: 0.5 m-7 m (1.64 ft-22.97 ft) | BLC | • |
| Detect Observe Recognize Identify | Iris Control | | WDR | |
| Panorama: Panorama: Panorama: Panorama: 25.4 m 12.2 m (423.23 ft) (168.31 ft) Detail: Detail: Detail: Detail: Detail: Detail: 1,724 m 690 m 345 m 172 m (5,656.17 ft) (2,263.78 ft) (1,131.89 ft) (564.30 ft) (2,263.78 ft) (1,131.89 ft) (564.30 ft) (40.03 ft) (5,656.17 ft) (2,263.78 ft) (1,131.89 ft) (564.30 | | Detect Observe Recognize Identify | нс | |
| Panorama: Pan 0° to 360° endless Tilt: 0° to 30° Detail: Pan: 0° to 305° Tilt: -10° to 90° Manual Control Speed Panorama: Pan: 0.1°/s-400°/s; Tilt: 0.1°/s-200°/s Panorama: Pan: 100°/s; Tilt: 50°/s | DORI Distance | 129 m 51.3 m 25.4 m 12.2 m (423.23 ft) (168.31 ft) (83.33 ft) (40.03 ft) Detail: Detail: Detail: Detail: 1,724 m 690 m 345 m 172 m | | Panorama: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp Detail: Auto; indoor; outdoor; tracking; manual; |
| Panorama: Pan: 0° to 360° endless Tilt: 0° to 30° Detail: Pan: 0° to 305° Tilt: -10° to 90° Manual Control Speed Panorama: Pan: 0.1°/s-400°/s; Tilt: 0.1°/s-200°/s Panorama: Pan: 100°/s; Tilt: 0.1°/s = 200°/s | DT7 | (5,656.17 ft) (2,263.78 ft) (1,131.89 ft) (564.30 ft) | Gain Control | Auto; Manual |
| Tilt: 0° to 30° Motion Detection Yes | PIZ | Panorama: | Noise Reduction | 2D NR; 3D NR |
| Pan: 0° to 305° Region of Interest (RoI) Yes | Pan/Tilt Range | | Motion Detection | Yes |
| Manual Control Speed Panorama: Pan: 0.1°/s-100°/s; Tilt: 0.1°/s-25°/s Detail: Pan: 0.1°/s-400°/s; Tilt: 0.1°/s-200°/s Detail: Pan: 100°/s; Tilt: 50°/s Panorama: Pan: 100°/s; Tilt: 50°/s Panorama: Pan: 100°/s; Tilt: 50°/s Panorama: Pan: 100°/s; Tilt: 50°/s | | Pan: 0° to 305° | Region of Interest (RoI) | Yes |
| Detail: Pan: 0.1°/s-400°/s; Tilt: 0.1°/s-200°/s Digital Zoom 16× Panorama: Pan: 100°/s; Tilt: 50°/s | Married Control C | | Defog | Electronic |
| | ivianual Control Speed | Detail: Pan: 0.1°/s–400°/s; Tilt: 0.1°/s–200°/s | Digital Zoom | 16× |
| | Preset Speed | | Image Rotation | 180° |

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|-----------------------|--|--|--|--|
| S/N Ratio | Panorama: ≥ 55 dB Detail: ≥ 55 dB | | | |
| Audio | | | | |
| Audio Compression | PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729 | | | |
| Network | | | | |
| Network Port | RJ-45 (10/100 Base-T) | | | |
| Network Protocol | TCP; FTP; RTMP; IPv6; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; DDNS; UPnP; ICMP; UDP; IGMP; HTTP; DHCP; SMTP; SNMP v1/v2c/v3 (MIB-2); QoS; RTSP; ARP | | | |
| Interoperability | CGI; ONVIF Profile S&G&T GB/T28181 | | | |
| Streaming Method | Unicast; Multicast | | | |
| User/Host | 20 (total bandwidth: 64 M) | | | |
| Storage | FTP; Micro SD card (512 GB) | | | |
| Browser | IE9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions | | | |
| Management Software | DSS; NVR; Smart PSS | | | |
| Mobile Client | iOS; Android | | | |
| Port | | | | |
| Audio Input | 1 channel (LINE IN, bare wire) | | | |
| Audio Output | 1 channel (LINE OUT,bare wire) | | | |
| Two-way Audio | Yes | | | |
| Alarm Linkage | Capture; preset; tour; recordings on SD card; alarm digital input; send email | | | |
| Alarm Event | Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; illegal access | | | |
| Alarm I/O | 2/1 | | | |
| Audio I/O | 1/1 | | | |
| Power | | | | |
| Power Supply | 36 VDC, 2.23 A (± 25%) Hi-PoE | | | |
| Power Consumption | Basic: 21 W Max.: 40 W (PTZ, zoom, focus, IR light, white light, and smart plan enabled) | | | |
| Environment | | | | |
| Operating Temperature | -40 °C to +65 °C (-40 °F to +149 °F) | | | |
| Operating Humidity | ≤ 95% (RH) | | | |
| Protection | IP67; TVS 8000 V lightning protection; surge protection; voltage transient protection | | | |
| Structure | | | | |
| Product Dimensions | 385 mm × Φ277 mm (15.16" × Φ10.91") | | | |
| Net Weight | 9 kg (19.84 lb) | | | |
| Gross Weight | 13.8 kg (30.42 lb) | | | |

| Ordering Information | | | | | |
|----------------------|-----------------------------|---------------------------------------|--|--|--|
| Туре | Model | Description | | | |
| Dual-PTZ Camera | DH-SDT5X425-4Z4- FA-2812 | 4MP 25 Ordinary IR NETWORK PTZ CAMERA | | | |
| Accessories | 36 VDC/2.23A | Power Adapter | | | |
| | PFB306W-S | Wall Mount Bracket | | | |
| | PFA150 | Pole Mount Bracket | | | |
| | PFB300C-S | Ceiling Mount Bracket | | | |

Accessories

Included:





36 VDC/2.23A Power Adapter

PFB306W-S Wall Mount Bracket

Optional:







PFB300C-S Ceiling Mount Bracket

| Wall Mount | Ceiling Mount | Pole Mount(Vertical) |
|------------------|------------------------|----------------------|
| PFB306W—S | PFB300C-S | PFB306W-S+PFA150 |
| | | |
| Corner Mount | Pole Mount(Horizontal) | |
| PFB306W-S+PFA151 | PFB300C=S+PFA150 | |
| | | |

Dimensions (mm[inch])

