

DH-SDT5X425-4Z4-WAJG-0832

4MP Starlight IR WizMind Network Dual-PTZ Traffic Camera





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, 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

Equipped with GPU chip, the device integrates multiple deep learning algorithms designed for complex scenes. It can capture vehicles illegally parked, and analyze data of multiple scenes.

The device has a dual-PTZ control system. Both panorama and detail cameras can rotate horizontally and vertically. Linkage and combination modes are supported. Multiple presets can be configured to increase coverage and perform intelligent tours. The device has 2 alarm inputs and 1 alarm outputs, and can be connected to a speaker to provide voice prompt.

Functions

Illegal Parking Capture

The device can capture vehicles illegally parked. Panorama camera can link detail camera to capture and recognize plate number and perform multi-scenario tour. When panorama camera is capturing images, detail camera can perform illegal parking capture and multi-scenario tour independently. In plate blocking capture, evidence can be collected even when the plate number is blocked.

Dual-PTZ System

The panorama camera and detail camera of the dual PTZ system can be adjusted horizontally and vertically.

- 1/1.8" 4MP CMOS
- Panorama camera: 4x optical zoom; detail camera: 25x optical zoom and 16 digital zoom
- Starlight+ technology
- · Max. 50/60 fps@4M
- IR distance up to 100 m
- · Illegal parking capture
- H.265 codec
- · Dual PTZ system; dual vari-focal lens
- IP67













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.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

| Technical Specification | | | | Scan | 5 | |
|--|---|-----------------------------------|----------------------------------|----------------------------------|--|--|
| Camera | | | Speed Adjustment | Yes | | |
| Image Sensor | Panorama: 1/1.8"" CMOS | | | | Power-off Memory | Yes |
| Pixel | Detail: 1/1.8"" CMOS Panorama: 4MP Detail: 4MP | | | | Idle Motion | Preset; Tour; Pattern; Scanning |
| Max. Resolution | 2688 (H) x 152 | 20 (V) | | | Protocol | DH-SD Pelco-P/D (auto recognition) |
| ROM | 8 GB | | | | Artificial Intelligence | |
| RAM | 4 GB | | | | | Capture range radius: 15 m–80 m (49.21 ft–262.47 ft) (panorama linkage mode), 120 m (393.70 ft) (detail |
| Electronic Shutter Speed | Panorama: 1/3 s–1/100000 s Detail: 1/1 s–1/100000 s | | | | camera); supports self-adaptive multi-scenario tour detection; 2–6 snapshots can be set, and the capture interval can be set between each capturing; snapsho | |
| Scanning System | Progressive | | | | | type includes long-distance, medium-distance, close- distance, and plate feature; supports vehicle type, color, |
| Min. Illumination | Panorama: Color: 0.001 Lux@F1.6 B/W: 0.0001 Lux@F1.6 Detail: Color: 0.001 Lux@F1.6 B/W: 0.0001 Lux@F1.6 0 Lux (IR light on) | | | | Illegal Parking Capture | logo series license plate plate color and other attribute |
| Illumination Distance | Detail (IR light): 100 m (328.08 ft) | | | | | Supports adaptively loading corresponding license plate |
| Illuminator On/Off Control | Panorama: SmartIR; Manual; Off Detail: Zoom Prio; Manual; SmartIR; Off | | | | integrates overseas general recognition algo support license plate recognition containing Intelligence Note numbers; integrates special license plate rec | recognition algorithm according to the area selected; integrates overseas general recognition algorithms to support license plate recognition containing letters and |
| Illuminator Number | 4 IR lights; 4 white lights | | | | | rumbers; integrates special license plate recognition algorithm in EU; integrates Singapore and Malaysia special license plate recognition algorithms; integrates special license plate recognition algorithms for UAE, Saud |
| Lens | Panorama: 8 mm–32 mm | | | | | |
| Focal Length | Detail: 5.4 mm–135 mm | | | | \ | Arabia, Morocco, Oman, Egypt, Iraq, and Jordan. |
| Max. Aperture | Panorama: F1.6 Detail: F1.6–F4.0 | | | | Video | H.265; H.264 Baseline Profile; H.264 Main Profile; H.264 |
| Field of View | Panorama: H: 42°–15°; V: 23°–8°; D: 49°–17° Detail: H: 58°–3.5°; V: 35°–2°; D: 64°–4° | | | 70 | Compression | High Profile; M-JPEG; Smart H.265+; Smart H.264+ |
| Optical Zoom | Panorama: 4× Detail: 25× | | | | Streaming Capability | 3 streams Panorama: |
| Focus Control | Auto; Semi-Auto; Manual | | | | | 4M (2688 × 1520); 4M (2560 × 1440); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × |
| Close Focus Distance | Panorama: 2.5 m–6 m (8.20 ft–19.69 ft) Detail: 0.5 m–7 m (1.64 ft–22.97 ft) | | | | | |
| Iris Control | Panorama: Au Detail: Auto | to | | | | 576/704 × 480); CIF (352 × 288/352 × 240) |
| | Detect | Observe | Recognize | Identify | Frame Rate | Main stream: 4M/1080p/1.3M/720p (1–50/60 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p/CIF (1–25/30 fps) |
| DORI Distance | Panorama: 400 m (1312.34 ft) | Panorama: 160 m (524.93 ft) | Panorama: 80 m (262.47 ft) | Panorama: 40 m (131.23 ft) | Bit Rate Control | Variable/Constant |
| | Detail: 1688 m | Detail: 675 m | Detail: 337 m | Detail: 168 m | Bit Rate | H.264: 2816 Kbps-13056 Kbps H.265: 1024 Kbps-7936 Kbps |
| PTZ | (5538.06 ft) (2214.57 ft) (1105.64 ft) (551.18 ft) | | | (551.18 ft) | Day/Night | Panorama: Auto (ICR) Detail: Auto (ICR) |
| · · - | Panorama: | | | | BLC | Yes |
| Pan: 0°–360° endless; Tilt: 0°–30° Pan/Tilt Range Detail: Detail: Det | | WDR | Yes | | | |
| | Pan: 0°–305° (the angle between two cameras: -125° to +180°); Tilt: -3°–180° | | | | HLC | 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 | | | | White Balance | Panorama: Auto; Indoor; Outdoor; Tracking; Manual; Sodium lamp; Natural light; Street lamp Detail: Auto; Indoor; Outdoor; Tracking; Manual; Sodium |
| Preset Speed | Panorama: Pan: 100°/s; Tilt: 50°/s Detail: Pan: 360°/s; Tilt: 200°/s | | | | | lamp; Natural light; Street lamp |
| Preset | 300 | | | | Gain Control | Auto; Manual |
| Tour | 8 (up to 32 presets per tour) | | | | Noise Reduction | 2D; 3D |
| Pattern | 5 | | | | Motion Detection | Yes |

| Region of Interest (RoI) | Yes |
|--------------------------|--|
| Image Stabilization | Electronic (EIS) |
| Defog | Electronic |
| Digital Zoom | 16× |
| Flip | 0°; 180° |
| Privacy Masking | Up to 24 areas, and up to 8 areas in the same view |
| S/N Ratio | Panorama: ≥ 55 dB Detail: ≥ 55 dB |
| Audio | |
| Compression | G.711a; G.711mu; G.726; MPEG2-Layer2; G.722.1; G.729 |
| Network | |
| Ethernet | RJ-45 (10/100Base-T) |
| Protocol | IPv4; IPv6; HTTP; HTTPS; 802.1x; QoS; FTP; SMTP; UPnP; SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; SNMP v1/v2c/v3 (MIB-2); RTCP |
| Interoperability | ONVIF Profile S&G&T CGI |
| Streaming Method | Unicast; Multicast |
| User/Host | 20 (total bandwidth 64 MB) |
| Storage | Imou Cloud; FTP; Micro SD card (256 GB) |
| Browser | IE7 and later versions Chrome 45 and earlier versions Firefox 52 and earlier versions Safari 12 and earlier versions |
| Management Software | SmartPSS; DSS; NVR |
| Mobile Phone | IOS; Android; Windows Phone |
| Certification | |

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|---|----|-----|-----|------|
| | | | | |

| Certifications | FCC: 47 CFR FCC Part15, Subpart B, Class A LVD: EN 62368-1:2014+A11: 2017 EMC: EN 55032:2015, Class A EN 61000-3-2: 2014 EN 61000-3-3: 2013 EN 55024:2010+A1: 2015 EN 55035: 2017 EN 50130-4: 2011+A1: 2014 |
|----------------|--|
|----------------|--|

Port

| Audio Input | 1 (LINE IN; bare wire) |
|---------------|---|
| Audio Output | 1 (LINE OUT; bare wire) |
| Two-way Audio | Yes |
| Alarm I/O | 2/1 Digital input: 0–5V DC |
| Alarm Linkage | Capture; preset; tour; pattern; SD card recording; triggering digital output; sending email |
| Alarm Event | Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; vandalization detection; illegal access detection |
| Alarm Event | Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection |
| Optical Fiber | Support |

Power

| Power Supply | 36 V DC/2.23 A ± 25% Hi-PoE |
|-------------------|--|
| Power Consumption | Basic: 21W Max.: 40W (PTZ, zoom, focus, IR light, white light, and smart plan enabled) |

Environment

| Operating Temperature | -40 °C to +70 °C (-40 °F to +158 °F) |
|-----------------------|--|
| Operating Humidity | ≤ 95% |
| Protection | IP67; TVS 8000V lightning protection; surge protection; voltage transient protection |

Structure

| 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 | Part Number | Description | |
| WizMind Series | DH-SDT5X425-4Z4- WAJG-0832 | 4MP Starlight IR WizMind Network Dual-PTZ Traffic Camera | |
| | 36 V DC/2.23 A | Power Adapter | |
| Accessories | PFB306W-S | Wall Mount Bracket | |
| | PFA150 | Pole Mount Bracket | |

Accessories

Included:



PFB300C-S





Ceiling Mount Bracket

PFB306W-S Wall Mount Bracket

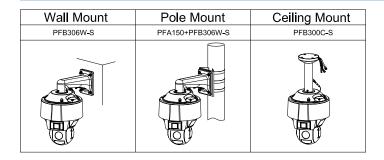
Optional:



PFA150 Pole Mount Bracket



PFB300C-S Ceiling Mount Bracket



Dimensions (mm[inch])

