

DH-SDT2A200-2F-NB-A-PV

2+2MP Smart Dual Light WizSense X-Spans Network PT 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.

Series Overview

Designed with more lens than the conventional PT camera, the SDT2A series captures an expansive view, as it independently monitors scenes from different angles. It has a unique design that makes it cost-effective, greatly reducing the installation cost of security systems. It supports two-way talk, allowing you to communicate with people in front of the camera in real time. It also records videos in full color, and uses Smart Dual Light to help produce vivid images, making it easy to obtain information on events, and reduce light pollution.

Functions

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.

Two-way Talk

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way talk through the mobile app.

- Displays videos in two channels at the same time.
- 1/2.8" 2Megapixel CMOS
- Human Detection and Vehicle Detection
- IR and warm light, three night view modes
- Two-way talk
- H.265 encoding
- Supports manual adjustment of fixed lens (Vertical: -10° to 15°)



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.

SMD 3.0

Empowered by deep-learning algorithms, Dahua SMD filters out motion detection alarms triggered by targets that are not a concern. It quickly recognizes humans and vehicles, triggering alarms when an intrusion occurs.

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the white light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention.

Technical Specification

Camera

| | |
|----------------------------|--|
| Image Sensor | Fixed lens: 1/2.8" CMOS; PT lens: 1/2.8" CMOS |
| Pixel | Fixed lens: 2 MP; PT Lens: 2 MP |
| Max. Resolution | Fixed lens: 1920 (H) × 1080 (V); PT Lens: 1920 (H) × 1080 (V) |
| ROM | 128 MB |
| RAM | 128 MB |
| Electronic Shutter Speed | Fixed lens: 1 s–1/100,000 s; PT Lens: 1 s–1/100,000 s |
| Scanning System | Progressive |
| Min. Illumination | Fixed lens: 0.05 lux@F1.6 (Color, 30 IRE); 0.005 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on); PT Lens: 0.05 lux@F1.6 (Color, 30 IRE); 0.005 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on) |
| Illumination Distance | Fixed lens: 30 m (98.43 ft) (warm light); 30 m (98.43 ft) (IR); PT Lens: 30 m (98.43 ft) (warm light); 30 m (98.43 ft) (IR) |
| Illuminator On/Off Control | Fixed lens: Manual; Auto; Off; PT Lens: Manual; Auto; Off |
| Illuminator Number | Fixed lens: 2 (IR); 2 (warm light); PT Lens: 2 (IR); 2 (warm light) |

Lens

| | |
|----------------------|--|
| Focal Length | Fixed lens: 4 mm; PT Lens: 4 mm |
| Max. Aperture | Fixed lens: F1.6; PT Lens: F1.6 |
| Field of View | Fixed lens: H: 85.7°; V: 47.1°; D: 100°; PT Lens: H: 85.7°; V: 47.1°; D: 100° |
| Close Focus Distance | Fixed lens: 0.8 m (2.62 ft); PT Lens: 0.8 m (2.62 ft) |
| Iris Control | Fixed lens: Fixed iris; PT Lens: Fixed iris |

| | Lens | Detect | Observe | Recognize | Identify |
|---------------|------------------------------------|---------------------|--------------------|--------------------|-------------------|
| DORI Distance | Fixed lens: 4 mm; PT Lens: 4 mm | 53.6 m (175.82 ft) | 21.2 m (69.55 ft) | 10.7 m (35.10 ft) | 5.3 m (17.39 ft) |

*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

PTZ

| | |
|----------------------|--|
| Pan/Tilt Range | Fixed lens: Manual adjustment Pan : 0°–326°; Tilt: –10°–15° PT Lens: Electric adjustment Pan : 0°–350°; Tilt: 0°–90° |
| Manual Control Speed | Pan: 0.1°–36°/s; Tilt: 0.1°–25°/s |
| Preset Speed | Pan: 36°/s; Tilt: 25°/s |
| Preset | 50 |
| Power-off Memory | Yes |
| Idle Motion | Preset;home position(only supports setting on DMSS) |
| PTZ Locked | YES |

Smart Event

| | |
|-------------------|----------------------------------|
| Human Detection | Fixed lens: Yes; PT Lens: Yes |
| Vehicle Detection | Fixed lens: Yes; PT Lens: Yes |

Intelligence

| | |
|-----|---------|
| SMD | SMD 3.0 |
|-----|---------|

Active Deterrence

| | |
|---------------|--|
| Light Warning | White light warning; Flash duration: 5 s–30 s; Flash frequency: high, medium, low |
| Sound Warning | Offers 3 sound alarm and 10 custom sound alarms can be imported. Sound can be set from 0%–100%. Play times can be set from 1-10. |

Video

| | |
|----------------------|---|
| Video Compression | Smart H.265+;H.265;Smart H.264+;H.264B;H.264M;H.264H |
| Streaming Capability | 2 streams |
| Resolution | Fixed lens: 1080p (1920 × 1080); 720p (1280 × 720); 640 × 360 (640 × 360); QVGA (320 × 240); PT Lens: 1080p (1920 × 1080); 720p (1280 × 720); 360p (640 × 360); QVGA (320 × 240); |
| Video Frame Rate | Fixed lens: Main stream: 1080p/720p/640x360@(1–25/30 fps) Sub stream 1: 640x360/QVGA@(1–25/30 fps) PT Lens: Main stream: 1080p/720p/640x360@(1–25/30 fps) Sub stream 1: 640x360/QVGA@(1–25/30 fps) |
| Bit Rate Control | CBR/VBR |
| Video Bit Rate | H264: 48 kbps–4,096 kbps H265: 19 kbps–4,096 kbps |
| Day/Night | Fixed lens: Auto (ICR)/Color/B/W; PT Lens: Auto (ICR)/Color/B/W |
| BLC | Yes |
| WDR | DWDR |
| HLC | Yes |
| White Balance | Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp |
| Gain Control | Auto; manual |

| | |
|------------------|--------------|
| Noise Reduction | 2D NR; 3D NR |
| Motion Detection | Yes |
| Image Rotation | 180° |
| Privacy Masking | 4 areas |
| S/N Ratio | ≥55 dB |

Audio

| | |
|-------------------|-----------------------------|
| Audio Compression | PCM; G.711a; G.711Mu; G.726 |
|-------------------|-----------------------------|

Network

| | |
|------------------|--|
| Network Port | RJ-45 (10/100 Base-T) |
| Network Protocol | HTTP;HTTPS;TCP/IP;IPv4;RTSP;UDP;SMTP;DHCP;DNS;DDNS;IPv6;SSL;ARP;RTCP;RTP;IP Filter |
| Interoperability | CGI;SDK;ONVIF (Profile S & Profile T) |
| Streaming Method | Unicast/Multicast |
| User/Host | 20 (total bandwidth: 64 M) |
| Storage | Micro SD card (256 GB) |
| Browser | IE 7 and later versions; All Chrome versions; All Firefox versions; All Safari versions |

Certification

| | |
|----------------|-------------------------------|
| Certifications | CE: EN55032/EN55024/EN50130-4 |
|----------------|-------------------------------|

Port

| | |
|---------------|--|
| Audio Input | 1 channel (built-in mic) |
| Audio Output | 1 channel (built-in speaker) |
| Alarm Linkage | Capture; recording; audio; warning light; preset |
| 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/1.5 A ± 10% PoE (802.3af) |
| Power Consumption | Basic: 4 W; Max: 12 W (illuminator + PTZ +sound and light warning) |
| Power Adapter | Optional |

Environment

| | |
|-----------------------|---|
| Operating Temperature | -20 °C to +50 °C (-4 °F to +122 °F) |
| Operating Humidity | ≤95% |
| Protection | IP66;TVS 2000 V lightning proof; surge protection; voltage transient protection |

Structure

| | |
|--------------------|---|
| Product Dimensions | 159.4 mm × 110.0 mm × 210.1 mm (6.28" × 4.33" × 8.27") (L × W × H) |
| Net Weight | 1 kg (2.20 lb) |
| Gross Weight | 1.5 kg (3.31 lb) |

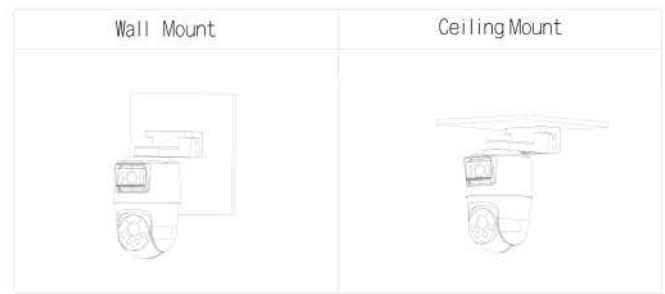
Filter

| | |
|---------|---|
| Remarks | The precision of the presets for PTZ cameras might vary depending on different series. For scenes with high requirements on the precision, contact your local sales representative for assistance with selecting the model. |
|---------|---|

Ordering Information

| Type | Model | Description |
|-------------------|------------------------|---|
| NETWORK PT CAMERA | DH-SDT2A200-2F-NB-A-PV | 2+2MP Smart Dual Light WizSense X-Spans Network PT Camera |

Installation



Dimensions (mm[inch])

