

DH-SD2A500NB-GNY-A-PV

5MP Smart Dual Light Network PT Camera




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

The Active Defense series of small PT cameras raises the bar on performance. After detecting an intrusion, it triggers sound and light alarms, and then instantly relays vital information on the intrusion to the mobile client, keeping you informed no matter where you are. It supports two-way talk, allowing you to communicate with people in front of the camera in real time. It also can record full-color videos and information of key events using Smart Dual Illuminators, effectively reducing light pollution.

Functions

IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

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.

- 1/2.8" 5Megapixel STARVIS™ CMOS.
- Max. 25/30fps@5MP.
- Human/vehicle detecton.
- Tripwire, intrusion.
- H.265 encoding.
- PoE.
- Two-way talk.
- Sound and light alarm.
- IR and white light, three night view modes.
- IP66.



Two-way Talk

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

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. The camera is built in one voice, and supports customized voice importing.

Human Detection

Dahua intelligent algorithms extract moving human targets from videos and filters out alarms that are triggered by non-human targets to increase the accuracy and effectiveness of alarms.

Technical Specification

Camera

| | |
|----------------------------|---|
| Image Sensor | 1/2.8" CMOS |
| Pixel | 5 MP |
| Max. Resolution | 2560 (H) × 1920(V) |
| ROM | 128 MB |
| RAM | 128 MB |
| Electronic Shutter Speed | 1 s–1/100,000 s |
| Scanning System | Progressive |
| Min. Illumination | 0.05 lux@F1.6 (Color, 30 IRE); 0.005 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on) |
| Illumination Distance | 30 m (98.43 ft) (warm light); 30 m (98.43 ft) (IR); |
| Illuminator On/Off Control | Manual; auto; off |
| Illuminator Number | 2 (IR light); 2 (warm light) |

Lens

| | | | | |
|----------------------|-------------------------------|-----------------------|----------------------|----------------------|
| Focal Length | 4.0 mm | | | |
| Max. Aperture | F1.6 | | | |
| Field of View | H: 80.4°; V: 58.1°; D: 104.8° | | | |
| Close Focus Distance | 0.3 m (0.98 ft) | | | |
| Iris Control | Fixed | | | |
| DORI Distance | Detect | Observe | Recognize | Identify |
| | 77.4 m (253.94 ft) | 31.0 m (101.71 ft) | 15.5 m (50.85 ft) | 7.74 m (25.39 ft) |

PTZ

| | |
|----------------------|--|
| Pan/Tilt Range | Pan: 0° to 345°; Tilt: 0° to +80° |
| Manual Control Speed | Pan: 0.1°–74°/s; Tilt: 0.1°–36.4°/s |
| Preset Speed | Pan: 0.1°–62°/s; Tilt: 0.1°–36.3°/s |
| Preset | 300 |
| Power-off Memory | Yes |
| Idle Motion | Preset |

Smart Event

| | |
|-----------------|---------------------|
| IVS | Tripwire; intrusion |
| Human Detection | Yes |

Intelligence

| | |
|-----|--------|
| SMD | SMD3.0 |
|-----|--------|

Active Deterrence

| | |
|---------------|--|
| Light Warning | Warm light warning; Flash duration: 5 s–30 s; Flash frequency: high, medium, low |
|---------------|--|

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|---------------|--|
| Sound Warning | Offers 1 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

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|--------------------------|---|
| Video Compression | H.264H;H.264B;Smart H.265+;H.265;Smart H.264+;H.264M;MJPEG(Sub Stream 1) |
| Streaming Capability | 2 streams |
| Resolution | 5M (2560 × 1920); 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240) |
| Video Frame Rate | Main stream: 5M/4M/3M/1080p/1.3M/720p@ (1–25/30 fps) Sub stream 1: D1/VGA/CIF@(1–25/30 fps) |
| Bit Rate Control | CBR/VBR |
| Video Bit Rate | H264: 104 kbps-8,192 kbps H265: 41 kbps-8,192 kbps |
| Day/Night | 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 |
| Region of Interest (RoI) | Yes |
| Defog | Electronic |
| Image Rotation | 180° |
| S/N Ratio | ≥55 dB |

Audio

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

Network

| | |
|---------------------|---|
| Network Port | RJ-45 (10/100 Base-T) |
| Network Protocol | UDP;FTP;RTMP;IPv6;IPv4;IP Filter;DNS;RTCP;HTTP;NT P;SSL;DHCP;RTP;SMTP;HTTTPS;TCP/IP;RTSP;DDNS;ARP |
| Interoperability | RTMP;CGI;SDK;ONVIF (Profile S & Profile T);P2P |
| Streaming Method | Unicast/Multicast |
| User/Host | 20 (total bandwidth: 64 M) |
| Storage | Micro SD card (256 GB); FTP |
| Browser | IE: IE 7 and later versions; Chrome; Firefox; Safari |
| Management Software | Player;Smart Player ;DMSS;ConfigTool;NVR;Smart PSS |
| Mobile Client | iOS;Android |

Certification

| | |
|----------------|---|
| Certifications | CE: EN55032/EN50130-4/EN IEC61000-3-3/EN IEC61000-3-2/EN55024/EN55035/EN62368-1 FCC: 47 CFR FCC Part15, Subpart B, ANSI C63.4:2014 |
|----------------|---|

Port

| | |
|---------------|--|
| Audio Input | 1 channel (built-in mic) |
| Audio Output | 1 channel (built-in speaker) |
| Alarm Linkage | Capture; preset; recording; audio; sending email |
| Alarm Event | Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection |

Power

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|-------------------|---|
| Power Supply | 12 VDC/1.5 A ± 10% PoE (802.3af) |
| Power Consumption | Basic: 3.5 W; Max: 9 W (illuminator) |

Environment

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|-----------------------|---|
| Operating Temperature | -30 °C to +55 °C (-22 °F to +131 °F) |
| Operating Humidity | ≤95% |
| Protection | Waterproof and Dustproof;TVS 2000 V lightning proof; surge protection; voltage transient protection |

Structure

| | |
|--------------------|---------------------------------------|
| Product Dimensions | 140.5 mm × Φ111.0 mm (5.53" × Φ4.37") |
| Net Weight | 0.5 kg (1.10 lb) |
| Gross Weight | 1 kg (2.20 lb) |

Ordering Information

| Type | Model | Description |
|------------------------|-----------------------|--|
| SMP PT Camera | DH-SD2A500NB-GNY-A-PV | SMP Smart Dual Light Network PT Camera |
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| Accessories (Optional) | DC 12 V/1.5A | Power Adapter |
| | PFM900-E | Integrated Mount Tester |
| | TF-P100 | MicroSD Memory Card |

Accessories

Optional:



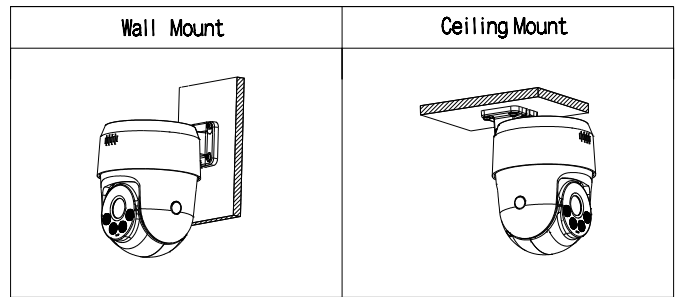
DC 12 V/1.5A
Power Adapter



PFM900-E
Integrated Mount Tester



TF-P100
Power Adapter



Dimensions (mm[inch])

