# DH-SD2A200HB-GN-A-PV-S2

2MP Full-color Network PT Camera

- 1/2.8" 2Megapixel CMOS.
- Max. 25/30 fps@1080p.
- Human detection.
- Tripwire, intrusion.
- H.265 encoding.
- POE.
- Two-way talk.
- Sound and light alarm.
- IR and white light, three night view modes.
- IP66.

## 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 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 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.

**Two-way Talk**

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

**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.

**IVS**

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

**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.

## Technical Specification

### Camera

| | |
|---|---|
| Image Sensor | 1/2.8" CMOS |
| Pixel | 2MP |
| Max. Resolution | 1920 (H) × 1080 (V) |
| ROM | 128 MB |
| RAM | 128 MB |
| Electronic Shutter Speed | 1/3 s–1/100,000 s |
| Scanning System | Progressive |
| Min. Illumination | Color: 0.05 lux@F2.0<br>B/W: 0.005 lux@F2.0<br>0 lux (IR/white light on) |
| Illumination Distance | 30 m (98.42 ft) (IR)<br>30 m (98.42 ft) (white light) |
| Illuminator On/Off Control | Manual; auto; off |
| Illuminator Number | 2 (IR light)<br>2 (White light) |

### Lens

| | | | | |
|---|---|---|---|---|
| Focal Length | 4 mm | | | |
| Max. Aperture | F2.0 | | | |
| Field of View | H: 86.8° V: 47.1° D: 102.2° | | | |
| Close Focus Distance | 0.6 m (1.97 ft) | | | |
| Iris Control | Fixed | | | |
| DORI Distance | Detect | Observe | Recognize | Identify |
| | 53.6 m (175.85 ft) | 21.4 m (70.21 ft) | 10.7 m (35.10 ft) | 5.4 m (17.72 ft) |

### PTZ

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

### Smart Event

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

### Active Deterrence

| | |
|---|---|
| Light Warning | White light warning Flash duration: 5 s–30 s Flash frequency: high, medium, low |
| Sound Warning | Sound warning alarm: Customizable Alarm duration: 10 s, 20 s, 30 s |

### Video

| | |
|---|---|
| Video Compression | H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream); Smart H.264+ |
| Streaming Capability | 2 streams |
| Resolution | 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240) |
| Video Frame Rate | Main stream: 1080p/1.3M/720p (1–25/30 fps)<br>Sub stream: D1/CIF (1–25/30 fps) |
| Bit Rate Control | CBR/VBR |
| Video Bit Rate | H264: 256–8192 kbps<br>H265: 144–5632 kpbs |
| Day/Night | Auto (ICR)/Color/B/W |
| BLC | Yes |
| WDR | DWDR |
| HLC | Yes |
| White Balance | Auto; manual; tracking; indoor; outdoor; sodium lamp; street lamp; natural light |
| Gain Control | Auto; manual |
| Noise Reduction | 2D NR; 3D NR |
| Motion Detection | Yes |
| Image Rotation | 180° |
| S/N Ratio | ≥ 55 dB |

### Audio

| | |
|---|---|
| Audio Compression | PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1 |

### Network

| | |
|---|---|
| Network Port | RJ-45 (10/100 Base-T) |
| Network Protocol | UDP; FTP; RTMP; IPv6; IPv4; IP Filter; DNS; RTCP; HTTP; NTP; SSL; DHCP; RTP; SMTP; HTTPS; TCP/IP; RTSP; DDNS; ARP |
| Interoperability | CGI; SDK; ONVIF (Profile S&T); P2P |
| Streaming Method | Unicast/Multicast |
| User/Host | 20 |
| Storage | Micro SD card (512 GB); FTP |
| Browser | IE: IE 7 and later versions; Chrome; Firefox; Safari |
| Management Software | DMSS |
| Mobile Client | iOS; Android |

### Certification

| | |
|---|---|
| Certifications | CE: EN55032/EN50130-4/EN IEC61000-3-3/EN IEC61000-3-2/EN55024/EN55035/EN62368-1<br>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) |
| Two-way Audio | Yes |
| 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 |
| Audio I/O | 1/1 |

### Power

| | |
|---|---|
| Power Supply | 12 VDC/1.5 A ± 10% PoE (802.3af) |
| Power Consumption | Basic: 4 W<br>Max.: 12.95 W (illuminator + PT + speaker + heating glass) |

### Environment

| | |
|---|---|
| Operating Temperature | –30 °C to +55 °C (–22 °F to +131 °F) |
| Operating Humidity | ≤ 95% |
| Protection | IP66 |

### Structure

| | |
|---|---|
| Product Dimensions | 140.5 mm × Φ111.0 mm (5.53" × Φ4.45") |
| Net Weight | 0.5 kg (1.10 lb) |
| Gross Weight | 1 kg (2.20 lb) |

*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 |
|---|---|---|
| 2MP PT Camera | DH-SD2A200HB-GN-A-PV-S2 | 2MP Full-color Network PT Camera |
| | SD2A200HB-GN-A-PV-S2 | 2MP Full-color Network PT Camera |
| Accessories (Optional) | DC 12 V/1.5 A | Power Adapter |
| | PFM900-E | Integrated Mount Tester |
| | TF-P100 | Memory Card |

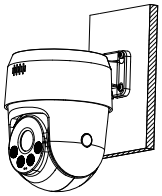
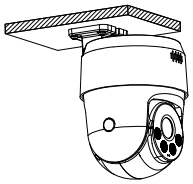
## Accessories

Optional:

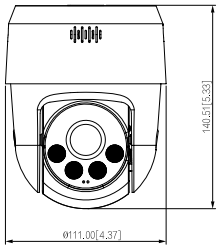
DC 12 V/1.5 A
Power Adapter

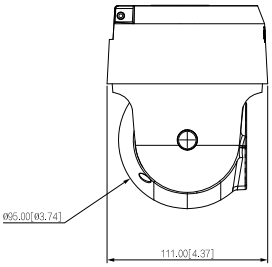
PFM900-E
Integrated
Mount Tester

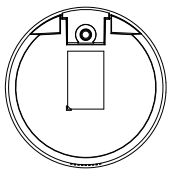
TF-P100
MicroSD
Memory Card

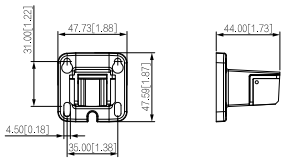
| Wall Mount | Ceiling Mount |
|---|---|
|  |  |

## Dimensions (mm[inch])







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