

DH-SD2A500HB-GN-AW-PV-S2

5MP Full-color Network PT Camera



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.

- 1/2.8" 5Megapixel STARVIS™ CMOS.
- Max. 20 fps@5MP.
- Human detection.
- Tripwire, intrusion.
- H.265 encoding.
- Wi-Fi.
- Two-way audio.
- Sound and light alarm.
- IR and white light, three night view modes.
- IP66.



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.

Lite Series | DH-SD2A500HB-GN-AW-PV-S2

Technical Specification

Camera

Image Sensor 1/2.8" CMOS Pixel 5MP Max. Resolution 2560 (H) × 1920 (V) ROM 128 MB RAM 128 MB Iectronic Shutter Speed 1/3 s - 1/100, US Scanning System Progressive Min. Illumination Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 B/W: 0.0005 lux@F1.6 G/W: 0.0005 lux@F1.6 B/W: 0.0005 lux@F1.6 G/W: 0.0005 lux@F1.6 Illumination Distance 30 n (98.42 + U(R) 30 m (98.42 + U) (white light) Illuminator Number 2 (IR light) clux(IIIumitilight) Illuminator Number 3 (IR light) clux(III light) Focal Length 4.0 mm Hax. Aperture 16.6 Field of View F1.6 Field of View 5.6 af Max. Aperture 0.3 m (0.98 + U Iris Control 6.2 af Monol Distance 0.3 m (0.98 + U Poetext Observe Recognize Manuel Control Speed 7.74 m (25.39 ft) 31.0 m (10.171 ft) 15.5 m (5.85 ft)
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Tilt: 0.1°-36.4°/s
Preset Speed Pan: 62°/s Tilt: 36.3°/s
Preset 300.0
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	5M (2560 × 1920); 4M (2560 × 1440); 1080P (1920 × 1080); 960P(1280x960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)	
Video Frame Rate	Main stream: 5M(1–20 fps),4M/1080p/1.3M/720p (1–25/30 fps) Sub stream: D1/CIF (1–25/30 fps)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H264: 512–8192 kbps H265: 233–7680 kbps	
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)	
Wi-Fi	Yes	
Wi-Fi–Wireless Standard	802.11n;IEEE802.11b;802.11g	
Wi-Fi–Wireless Frequency Range	2.4GHz	
Wi-Fi–Wireless Transmission Rate	150Mbps	
Network Protocol	UDP;FTP;RTMP;IPv6;IPv4;IP Filter;DNS;RTCP;HTTP;NTP;SS L;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		
Certification	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	

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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%	
Power Consumption	Basic: 3.5 W Max.: 11 W (illuminator + PT + speaker + heating glass)	
Environment		
Operating Temperature	–30 °C to +55 °C (–22 °F to +131 °F)	
Operating Humidity	≤ 95%	
Protection	IP66, TVS 2000 V lightning proof; surge protection; voltage transient protection	
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

Туре	Model	Description
5MP PT Camera	DH-SD2A500HB-GN- AW-PV-S2	5MP Full-color Network PT Camera
	SD2A500HB-GN-AW- PV-S2	5MP Full-color Network PT Camera
Accessories (Optional)	DC 12 V/1.5 A	Power Adapter
	РҒМ900-Е	Integrated Mount Tester
	TF-P100	Memory Card

Accessories

Optional:







DC 12 V/1.5 A Power Adapter

PFM900-E Integrated Mount Tester





Dimensions (mm[inch])









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