

DH-SD2A500HB-GN-A-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.
- · PoE.
- · Two-way talk.
- · 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.

Technical Specification	on					Video	
Camera						Video Compression	H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+
Image Sensor	1/2.8" CMOS				Streaming Capability	2 streams	
Pixel	5MP				Resolution	5M (2560 × 1920); 4M (2560 × 1440); 1080p (1920 × 1080); 960p(1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)	
Max. Resolution	2560 (H) × 1920 (V)						
ROM	128 MB				Video Frame Rate	Main stream: 5M(1–20 fps), 4M/1080p/1.3M/720p (1–25/30 fps)	
RAM	128 MB					Sub stream: D1/CIF (1–25/30 fps)	
Electronic Shutter Speed	1/3 s-1/100,000 s				Bit Rate Control	CBR/VBR	
Scanning System	Progressive				Video Bit Rate	H264: 512–8192 kbps H265: 233–7680 kbps	
Color: 0.005 lux@F1.6 Min. Illumination B/W: 0.0005 lux@F1.6 0 lux (illuminator on)				Day/Night	Auto (ICR)/Color/B/W		
				BLC	Yes		
	30 m (98.42 ft) (IR)				WDR	DWDR	
Illumination Distance		30 m (98.42 ft) (white light)				HLC	Yes
Illuminator On/Off Control	Manual; auto; off 2 (IR light)				White Balance	Auto; manual; tracking; indoor; outdoor; sodium lamp; street lamp; natural light	
Illuminator Number	2 (White light)				Gain Control	Auto; manual	
Lens					Noise Reduction	2D NR; 3D NR	
Focal Length	4 mm				Motion Detection	Yes	
Max. Aperture	F1.6				Image Rotation	180°	
Field of View	H: 80.4° V: 58.1° D: 104.8°				S/N Ratio	≥ 55 dB	
Close Focus Distance	0.3 m (0.98 ft)				Audio	
Iris Control	Fixed	Fixed				Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1
DORI Distance	Detect	Observe	Recognize	Identify		Network	
	77.4 m (253.94 ft)	31.0 m (101.71 ft)	15.5 m (50.85 ft)	7.74 m (25.39 ft)		Network Port	RJ-45 (10/100 Base-T)
PTZ	Pan: 0° to 345	- °				Network Protocol	UDP; FTP; RTMP; IPv6; IPv4; IP Filter; DNS; RTCP; HTTP; NTP; SSL; DHCP; RTP; SMTP; HTTPS; TCP/IP; RTSP; DDNS; ARP
Pan/Tilt Range	Tilt: 0° to +80	٥				Interoperability	CGI; SDK; ONVIF (Profile S&T); P2P
Manual Control Speed	Pan: 0.1°-74°, Tilt: 0.1°-36.4					Streaming Method	Unicast/Multicast
Preset Speed	Pan: 62°/s Tilt: 36.3°/s					User/Host	20
Preset	300.0					Storage	Micro SD card (512 GB); FTP
Power-off Memory	Yes	Yes				Browser	IE: IE 7 and later versions; Chrome; Firefox; Safari
Idle Motion	Preset				Management Software	DMSS	
Smart Event	Smart Event				Mobile Client	iOS; Android	
IVS	Tripwire; intrusion				Certification		
Human Detection	Yes				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	
Active Deterrence	Active Deterrence				Port	. Soc. 17 GERT GO FOREES, Support of ANSI COS.4.2014	
Light Warning	White light warning Flash duration: 5 s–30 s Flash frequency: high, medium, low				Audio Input	1 channel (built-in mic)	
Sound Warning	Sound warning alarm: Customizable Alarm duration: 10				Audio Output	1 channel (built-in speaker)	
	s, 20 s, 30 s					Two-way Audio	Yes

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

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 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; 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 Model Description Type DH-SD2A500HB-GN-5MP Full-color Network PT Camera A-PV-S2 5MP PT Camera SD2A500HB-GN-A-5MP Full-color Network PT Camera DC 12 V/1.5 A Power Adapter Accessories PFM900-E Integrated Mount Tester (Optional) TF-P100 Memory Card

Accessories

Optional:







PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Wall Mount	Ceiling Mount

Dimensions (mm[inch])









