

DH-SD50225DB-HNY

2MP 25x Starlight WizSense Network PTZ 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

With its powerful optical zoom, and accurate pan and tilt capabilities, the PTZ camera provides an all-in-one solution for large-scale monitoring. It harnesses the latest starlight technology, allowing it to produce highly detailed images even in low light conditions. The camera offers smooth control and high-grade protection that enable it to meet the requirements of video surveillance in small and medium-sized scenes.

Functions

Starlight Technology

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighting, WDR adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

- · 1/2.8" 2Megapixel CMOS.
- · Powerful 25x optical zoom.
- · Max. 25/30fps@2M.
- · Deep-learning-based perimeter protection.
- · SMD.
- · PoE+.

Wiz Sense

- · IP67, IK10.
- · Face Detection.



IVS

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

Protection (IP67, TVS 6000 V)

IP67, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

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.

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Technical Specification

Camera				
Image Sensor	1/2.8"CMOS			
Pixel	2 MP			
Max. Resolution	1920 (H) × 1080 (V)			
ROM	128 MB			
RAM	512 MB			
Electronic Shutter Speed	1/1 s-1/30,000 s			
Scanning System	Progressive			
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6			
Lens				
Focal Length	4.8 mm-120 mm			
Max. Aperture	F1.6-F3.5			
Field of View	H: 58.5°–2.8°; V: 33.2°–1.5°; D: 67.5°–3.2°			
Optical Zoom	25×			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	0.1 m–1.0 m (0.34 ft–3.28 ft)			
Iris Control	Auto; manual			
DORI Distance	Detect	Observe	Recognize	Identify
	1655.2 m (5430.36 ft)		331.0 m (1,086.07 ft)	165.5m (543.04 ft)

PTZ

Pan: 0°–360° endless Tilt: 0° to +90°, auto flip 180	
Pan: 0.1°/s–350°/s Tilt: 0.1°/s–250°/s	
Pan: 500°/s; Tilt: 500°/s	
300	
8 (up to 32 presets per tour)	
5	
5	
Yes	
Pattern; Preset; Scan; Tour	
DH-SD Pelco-P/D (Auto recognition)	
Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	
Supports face detection, face bounding box, capturing snapshots, and enhancing face images. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, and quality first.	

SMD	Yes	
Video		
Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+	
Streaming Capability	3 streams	
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288); VGA (640 × 480)	
Video Frame Rate	Main stream: 1080p/1.3M/720p@(1–25/30 fps) Sub stream 1: D1/VGA/CIF@(1–25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1–25/30 fps)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H.264: 2048 Kbps–8192 Kbps H.265: 768 Kbps–6400 Kbps	
Day/Night	Auto (ICR)/Color/B/W	
BLC	Yes	
WDR	120dB	
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	
Image Stabilization	Electronic (EIS)	
Defog	Electronic	
Digital Zoom	16×	
Image Rotation	180°	
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; multiple colors available	
S/N Ratio	≥ 55 dB	
Audio		
Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G723; PCM	
Network		
Network Port	RJ-45 (10/100 Base-T)	
Network Protocol	TCP; FTP; RTMP; IPv6;Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; IP Filter; SMB; HTTP; SSL; DHCP; SMTP; SNMPv1/v2c/v3(MIB-2); Qos; RTSP; ARP	
Interoperability	CGI; Dahua SDK; API; SDK; ONVIF(Profile S&G&T)	
Streaming Method	Unicast/Multicast	
User/Host	20 (total bandwidth: 64 M)	
Storage	DMSS; FTP; Micro SD card (512 GB); NAS	
Browser	IE 7 and later versions Chrome 45 and later versions Firefox 52 ESR and earlier versions Safari	

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Management Software	DMSS; DSS Pro	
Mobile Client	iPhone; iPad; iOS; Android	
Certification	CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035 CE-LVD: EN 62368-1 FCC: 47 CFR FCC Part15, Subpart B, NSI C63.4	
Port		
Audio Input	1 channel	
Audio Output	1 channel	
Alarm Linkage	Capture; preset; tour; pattern; recording; alarm digital input; send email	
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card status detection; memory space detection	
Alarm I/O	2/1	
Audio I/O	1/1	
Power		
Power Supply	24 VDC/2.5 A ± 25% PoE+ (802.3at)	
Power Consumption	Basic: 11.6 W Max.: 15.8 W (Al functions)	
Environment		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤ 95%	
Protection	IP67, IK10,TVS 6000 V lightning proof; surge protection; voltage transient protection	
Structure		
Product Dimensions	253.0 mm × Φ186.2 mm (9.96" × Φ7.33")	
Net Weight	2.5 kg (5.51 lb)	
Gross Weight	4.5 kg (9.92 lb)	

Ordering Information				
Туре	Model	Description		
2MP PTZ Camera	DH-SD50225DB-HNY	2MP 25x Starlight WizSense Network PTZ Camera, WDR, PAL		
	SD50225DB-HNY	2MP 25x Starlight WizSense Network PTZ Camera, WDR, PAL		
Accessories	PFB300S	Wall Mount Bracket		
	PFA110	Mount Adapter Bracket		
	DC 24 V/2.5 A	Power Adapter		
	PFA140	Power Box		
	PFB300C	Ceiling Mount Bracket		
	PFA120	Junction Box		
	PFA150	Pole Mount Bracket		
	PFA151	Corner Mount Bracket		
	PFB303S	Parapet Mount Bracket		
	PFB301S-E	Plane Mount Bracket		
	РҒМ900-Е	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Included:





PFA110

Mount Adapter

. Bracket



DC24V/2.5A Power Adapter



PFA120 Ceiling Mount Bracket



PFB303S Parapet Mount Bracket



TF-P100 MicroSD Memory Card

PFB300S Wall Mount Bracket

Optional:



PFA140 Power Box



PFA150 Pole Mount Bracket



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Plane Mount Bracket

PFA151 Corner Mount Bracket

PFB300C

Ceiling Mount Bracket









PFM900-E Integrated Mount Tester

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Wall Mount	Ceiling Mount	Ceiling Mount	
PFA110+PFB300S+PFA120	PFA110+PFB300C	PFA110+PFB301C	
Pole Mount(Vertical)	Pole Mount(Horizontal)	Corner Mount	
PFA110+PFB300S+PFA150	PFA110+PFB300C+PFA150	PFA110+PFB300\$+PFA151	
Plane Mount	Parapet Mount		
PF8301S-E	PFA110+PFB303S		

Dimensions (mm[inch])





