



DH-SD50225DB-HNY

2MP 25 Startlight WizSense NETWORK PTZ CAMERA



Wiz Sense

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+.
- · 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.

Technical Specification		Face Detection	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	
Camera				
Image Sensor	1/2.8"CMOS		and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, and quality first.	
Pixel	2 MP	SMD	Yes	
Max. Resolution	1920 (H) × 1080 (V)	Video		
ROM	128 MB	Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265;	
RAM	512 MB	·	MJPEG(Sub Stream); Smart H.264+	
Electronic Shutter Speed	1/1 s-1/30,000 s	Streaming Capability	3 streams	
Scanning System	Progressive	Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288); VGA (640 × 480)	
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux	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)	
Illuminator On/Off Control	Off	Bit Rate Control	CBR/VBR	
Lens		Video Bit Rate	H.264: 2048 Kbps–8192 Kbps H.265: 768 Kbps–6400 Kbps	
Focal Length	4.8 mm-120 mm	Day/Night	Auto (ICR)/Color/B/W	
Max. Aperture	F1.6-F3.5	BLC	Yes	
Field of View	H: 58.5°–2.8°; V: 33.2°–1.5°; D: 67.5°–3.2°	WDR	120dB	
Optical Zoom	25×	HLC	Yes	
Focus Control	Auto; semi-auto; manual	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	
Close Focus Distance	0.1 m-1.0 m (0.34 ft-3.28 ft)	Gain Control	Auto; manual	
Iris Control	Auto; manual	Noise Reduction	2D NR; 3D NR	
	Detect Observe Recognize Identify	Motion Detection	Yes	
DORI Distance	1655.2 m 653.8 m 331.0 m 165.5m (5430.36 ft) (2145.00 ft) (1,086.07 ft) (543.04 ft)	Region of Interest (RoI)	Yes	
DT7	(3430.3011) (2143.0011) (1,000.0711) (343.0411)	Image Stabilization	Electronic (EIS)	
PTZ	Pan: 0°–360° endless	Defog	Electronic	
Pan/Tilt Range	Pan/Tilt Range Fan: 0"-360" endless Tilt: 0" to +90", auto flip 180		16×	
Manual Control Speed	ntrol Speed Pan: 0.1°/s–350°/s Tilt: 0.1°/s–250°/s		180°	
Preset Speed			Up to 24 areas can be set, with up to 8 areas in the same view; multiple colors and mosaics available	
Preset	set 300			
Tour	Tour 8 (up to 32 presets per tour)		≥ 55 dB	
Pattern	5	Audio	Audio	
Scan	5	Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G723; PCM	
Power-off Memory	Power-off Memory Yes		Network	
Idle Motion	Pattern; Preset; Scan; Tour	Network Port	RJ-45 (10/100 Base-T)	
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)		TCP; FTP; RTMP; IPv6;Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP;	
Intelligence	ntelligence		DDNS; UPnP; NFS; ICMP; UDP; IGMP; IP Filter; SMB; HTTP; SSL; DHCP; SMTP; SNMPv1/v2c/v3(MIB-2); Qos; RTSP; ARP	
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving;	Interoperability	CGI; Dahua SDK; API; SDK; ONVIF(Profile S&G&T)	
,	parking detection; people gathering; vehicle/human alarm classification	Streaming Method	Unicast/Multicast	
		User/Host	20 (total bandwidth: 64 M)	

Wiz Sense | DH-SD50225DB-HNY

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		
Management Software	Player; DSS; Smart Player; DMSS; Easy4ip; ConfigTool; NVR; Smart PSS; IVSS		
Mobile Client	iPhone; iPad; iOS; Android		
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 +70 °C (-40 °F to +158 °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		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Included:



PFB300S Wall Mount Bracket



PFA110 Mount Adapter Bracket



DC24V/2.5A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount Bracket



PFA120 Ceiling Mount Bracket



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

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+PFB300S+PFA151
Plane Mount	Parapet Mount	
PFB301S-E	PFA110+PFB303S	

Dimensions (mm[inch])





