

# 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+.
- · IP67, IK10.
- · Face Detection.













#### IVS

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

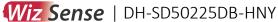
## Protection (IP67, TVS 6000 V)

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		SMD	SMD 3.0	
Camera			It triggers the IVS rule when a target is detected and	
Image Sensor	1/2.8"CMOS	Auto Patrol	makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets	
Pixel	2 MP	Video		
Max. Resolution	1920 (H) × 1080 (V)	Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+	
ROM	128 MB	Streaming Capability	3 streams	
RAM	512 MB	Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×	
Electronic Shutter Speed	1/1 s-1/30,000 s		720); D1 (704 × 576); CIF (352 × 288); VGA (640 × 480)  Main stream: 1080p/1.3M/720p@(1–25/30 fps)	
Scanning System	Progressive	Video Frame Rate	Sub stream 1: D1/VGA/CIF@(1–25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1–25/30 fps)	
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6	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	
PTZ		Image Stabilization	Electronic (EIS)	
Pan/Tilt Range	Pan: 0°–360° endless	Defog	Electronic	
, any mentange	Tilt: 0° to +90°, auto flip 180 Pan: 0.1°/s–350°/s	Digital Zoom	16×	
Manual Control Speed	Tilt: 0.1°/s–250°/s	Image Rotation	180°	
Preset Speed Preset	Pan: 500°/s; Tilt: 500°/s	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view;	
Tour	8 (up to 32 presets per tour)	S/N Ratio	multiple colors available ≥ 55 dB	
Pattern	5	Audio	2 33 UB	
	5		G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1;	
Scan Power-off Memory	Yes	Audio Compression	G723; PCM	
Idle Motion		Network		
	Pattern; Preset; Scan; Tour DH-SD	Network Port	RJ-45 (10/100 Base-T)	
PTZ Protocol	Pelco-P/D (Auto recognition)		TCP; FTP; RTMP; IPv6;Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP;	
Intelligence	Tripwire; intrusion; crossing fence detection; loitering	Network Protocol	DDNS; UPnP; NFS; ICMP; UDP; IGMP; IP Filter; SMB; HTTP; SSL; DHCP; SMTP; SNMPv1/v2c/v3(MIB-2); Qos; RTSP; ARP	
IVS (Perimeter Protection)	detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human	Interoperability	CGI; Dahua SDK; API; SDK; ONVIF(Profile S&G&T)	
	alarm classification	Streaming Method	Unicast/Multicast	
	Supports face detection, face bounding box, capturing snapshots, and enhancing face images. Face cutout is	User/Host	20 (total bandwidth: 64 M)	
Face Detection	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	Storage	DMSS; FTP; Micro SD card (512 GB); NAS	



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Browser	IE 7 and later versions Chrome 45 and later versions Firefox 52 ESR and earlier versions Safari			
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")			

2.5 kg (5.51 lb)

4.5 kg (9.92 lb)

Net Weight

Gross Weight

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:







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])

