

# DH-SD60432DB-HNY-SL

4MP 32x Starlight Anti-corrosion WizSense 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**

#### 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.

#### **Perimeter Protection**

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

- · 1/2.8" 4Megapixel STARVIS™ CMOS.
- · 32x optical zoom.
- · Starlight technology.
- · Max. 25/30fps@4MP.
- · Perimeter protection.
- · Face detection.
- · SMD 3.0.
- · IP67.
- · IK10.













#### Protection (IP67, TVS 6000 V)

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

#### **SMD 3.0**

Empowered by deep-learning algorithms, Dahua SMD filters out motion detection alarms triggered by targets that are not a concern. It quickly recognizes humans and vehicles, triggering alarms when an intrusion occurs.

#### Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, a flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality videos without straining the network. Smart H.265+ technology outranks standard H.265 video compression, reducing bit rate and storage requirements by up to 70%.

#### Starlight Technology

For challenging low-light conditions, Dahua's Starlight Ultra-low Light Technology offers the best in light sensitivity, capturing color in vivid detail, even in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

Technical Specification	n	Video	
Camera		Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream); Smart H.264+
Image Sensor	1/2.8" CMOS	Streaming Capability	3 streams
Pixel	4 MP		4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480)
Max. Resolution	2560 (H) × 1440 (V)	Resolution	
ROM	128 MB	Video Frame Rate	Main stream: 4M/1080p/1.3M/720p@(1–25/30 fps) Sub stream 1: D1/VGA/CIF@(1–25/30 fps)
RAM	512 MB	video i rume nate	Sub stream 2: 720p@(1–25/30 fps)
Electronic Shutter Speed	1 s–1/30,000 s	Bit Rate Control	CBR/VBR
Scanning System	Progressive	Video Bit Rate	H.264: 96 Kbps-14,848 Kbps H.265: 38 Kbps-8,960 Kbps
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE)	Day/Night	Auto (ICR); Color/B/W
Lens		BLC	Yes
Focal Length	4.8 mm-154 mm	WDR	120 dB
Max. Aperture	F1.6-F4.0	HLC	Yes
Field of View	H: 55.8°–2.3°; V: 31.9°–1.3°; D: 63.7°–2.7°	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Optical Zoom	32 ×	Gain Control	Auto; manual
Focus Control	Auto; semi-auto; manual	Noise Reduction	2D NR; 3D NR
Close Focus Distance	0.1m-1.5 m (0.33 ft-4.92 ft)	Motion Detection	Yes
Iris Control	Auto; manual	Region of Interest (RoI)	Yes
DORI Distance	Detect         Observe         Recognize         Identify           3080.0 m         1216.6 m         616 m         308 m           (10104.99 ft)         (3991.47 ft)         (2021.00 ft)         (1010.50 ft)	Image Stabilization	Electronic Image Stabilization (EIS)
		Defog	Electronic
PTZ		Digital Zoom	16×
Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: –20° to +90°, auto flip 180°	Image Rotation	180°
Manual Control Speed	Pan: 0.1°–300° /s; Tilt: 0.1°–150° /s	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; 8 colors available
Preset Speed	Pan: 0.1°–600° /s; Tilt: 0.1°–500° /s	S/N Ratio	≥ 55 dB
Preset	300	Audio	
Tour	8 (up to 32 presets per tour)	Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer; G722.1; PCM
Pattern	5	Network	
Scan	5	Network Port	RJ-45 (10/100 Base-T)
Power-off Memory	Yes		UDP;TCP;FTP;IGMP;IPv6;IPv4;DNS;RTCP;HTTP;PPPoE
Idle Motion	Pattern; Preset; Scan; Tour	Network Protocol	;NTP;DHCP;RTP;SMTP;802.1x;SNMPv1/v2c/v3(MIB-2);QoS;HTTPS;SNMP;RTSP;DDNS;UPnP;ICMP;ARP
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)	Interoperability	SDK; ONVIF
Intelligence		Streaming Method	Unicast/Multicast
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering  Supports face detection, snapshot, and face	User/Host	20 (total bandwidth: 64 M)
		Storage	FTP; Micro SD card (up to 512 GB); NAS
Face Detection	enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing and quality first.	Browser	IE 7 and later versions; Chrome 45 and later versions; Firefox 52ESR and earlier versions; All Safari versions
SMD	SMD3.0	Management Software	Cloud Connection; NVR; Smart PSS; IVSS

Mobile Client	iOS; Android
Certification	
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1
Port	
Analog Output	1 channel (CVBS output, BNC)
RS-485	1 (baud rate: 1200 bps–9600 bps)
Audio Input	1 channel (LINE IN, bare wire)
Audio Output	1 channel (LINE OUT,bare wire)
Alarm Input	7 (on-off value input: 0–5 VDC)
Alarm Output	2 channels
Alarm Linkage	Capture; preset; tour; pattern; recording; alarm digita output; send email;
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection
Alarm I/O	7/2
Audio I/O	1/1
Power	
Power Supply	24 VDC, 2.5 A ± 25% (included) PoE+ (802.3at)
Power Consumption	Basic: 13 W; Max: 18 W (PTZ)
Environment	
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating Humidity	≤ 95%
Protection	IK10;TVS 6000 V lightning proof; IP67; msurge protection
Structure	
Casing Material	SUS316L
Product Dimensions	292.0 mm × Φ222.0 mm (11.50" × Φ8.74")
Net Weight	7.2 kg (15.87 lb)

*When the vertical field of view is between –20° and 5°, the image might present different degrees
of ghosting.

10.2 kg (22.49 lb)

Gross Weight

Ordering Information				
Туре	Model	Description		
4MP WizSense PTZ Camera	DH-SD60432DB-HNY-SL	4MP 32x Starlight Anti-corrosion WizSense PTZ Camera		
	SD60432DB-HNY-SL	4MP 32x Starlight Anti-corrosion WizSense PTZ Camera		
Accessories	DC 24 V/2.5 A	Power Adapter		
	PFB303W-SL	Wall Mount Bracket		
	PFA111A	Mount Adapter		
	PFA126A	Wall Mount Bracket		
	PFB300CA	Ceiling Mount Bracket		

### Accessories

# Included:







DC24V/2.5A Power Adapter

PFB303W-SL Wall Mount Bracket

PFA111 Mount Adapter

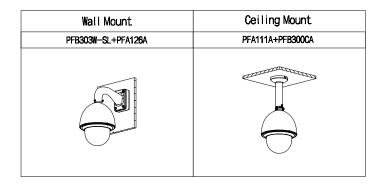
# Optional:







PFB300CA Ceiling Mount Bracket



# Dimensions (mm[inch])

