

# DH-SD52C432GB-HNR

4MP 32x In-ceiling 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.

#### 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" 4Megapixel STARVIS™ CMOS.
- 32x optical zoom.
- Starlight technology.
- Max. 25/30 fps@4MP.
- Auto-tracking.
- Perimeter protection.
- Face detection.
- SMD4.0. • IK10.
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#### Protection (±25%, 6 kV)

Designed with  $\pm 25\%$  input voltage tolerance, the camera is suitable for even the most unstable outdoor conditions. Its 6 kV lightning rating ensures protection against lightning for both the camera and its structure.

#### **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.

#### Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

#### SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

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#### **Technical Specification**

### Camera

Camera				
Image Sensor	1/2.8" CMOS			
Pixel	4 MP			
Max. Resolution	2560 (H) × 1440 (V)			
ROM	4 GB			
RAM	1 GB			
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–154 mm			
Max. Aperture	F1.6-F4.0			
Field of View	H: 55.8°–2.3° V: 31.9°–1.3° D: 63.7°–2.7°			
Optical Zoom	32×			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	0.1 m-1.5 m			
Iris Control	Auto; manual			
DORI Distance	Detect	Observe	Recognize	Identify
	3,080 m (10,104.99 ft)	1216.6 m (3,991.47 ft)	616 m (2,021.00 ft)	308 m (1,010.50 ft)
PTZ				
Pan/Tilt Range	Tilt: 0° to +90°, auto flip 180 Pan: 0° to 360° endless			
Manual Control Speed	Pan: 0.1°/s-350°/s; Tilt: 0.1°/s-250°/s			
Preset Speed	Pan: 500°/s; Tilt: 500°/s			
Preset	300			
Tour	8 (up to 32 presets per tour)			
Pattern	5			

5

Yes

DH-SD

Pattern; Preset; Scan; Tour

classification; linkage tracking

Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking

Supports face detection, optimization, tracking, capturing pictures, uploading high-quality face snapshots, and face enhancement; Supports attributes extraction. 6 attributes and 8 expressions: Gender, age, glasses, expressions

detection; people gathering; vehicle/human alarm

(angry, sad, hate, scary, surprise, calm, happy and confused), mask, mustache; Supports face cutout: Face, one-inch photo. Capturing strategies include real-time

capturing, optimization, and quality first.

Scan

Power-off Memory

Idle Motion

PTZ Protocol

Intelligence

Face Detection

IVS (Perimeter Protection)

Auto Tracking	Yes	
SMD	Yes	
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events.	
Video		
Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream1); Smart H.264+	
Streaming Capability	3 streams	
Resolution	4M (2560 × 1440); 3M (2048 × 1536); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Video Frame Rate	Main stream: 4M/3M/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	H264: 96–14848 Kbps H265: 38–8960 Kbps	
Day/Night	Auto (ICR)/Color/B/W	
BLC	Yes	
WDR	120 dB	
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	
S/N Ratio	≥55 dB	
Audio		
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723	
Network		
Network Port	RJ-45 (10/100 Base-T)	
Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPOE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP	
Interoperability	ONVIF (Profile S&G&T); CGI; SDK	
Streaming Method	Unicast/Multicast	
User/Host	20 (total bandwidth: 64 M)	
Storage	Micro SD card (512 GB); FTP/SFTP; NAS	

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Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions			
Management Software	DSS Pro; DMSS			
Mobile Client	iOS; Android			
Certification				
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL62368-1 + CAN/CSA C22.2, No. 62368-1			
Port				
Audio Input	1 channel (LINE IN, bare wire)			
Audio Output	1 channel (LINE OUT,bare wire)			
Alarm Linkage	Capture; recoding; send email; preset; tour; pattern; alarm digital output; audio			
Alarm Event	Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection			
Alarm I/O	2/1			
Audio I/O	1/1			
Power				
Power Supply	24 VDC/2.5 A ± 25% (Included) PoE+ (802.3at)			
Power Consumption	Basic: 13 W Max.: 16 W (PTZ)			
Environment				
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)			
Operating Humidity	≤ 95%			
Protection	IK10; 6000V lightning proof; surge protection; voltage transient protection			
Structure				
Product Dimensions	176.6 mm × Φ198.0 mm (6.95" × Φ7.80")			
Net Weight	2.2 kg (4.85 lb)			
Gross Weight	3.7 kg (8.16 lb)			

When the vertical field of view is between  $0^\circ$  and  $10^\circ,$  the image might present different degrees of ghosting.

Ordering Information				
Туре	Model	Description		
4MP WizSense PTZ Camera	DH-SD52C432GB-HNR	4MP 32x Starlight WizSense Network PTZ Camera		
	SD52C432GB-HNR	4MP 32x Starlight WizSense Network PTZ Camera		
Accessories	DC 24 V/2.5 A	Power Adapter		
	TF-P100	MicroSD Memory Card		
	РҒМ900-Е	Integrated Mount Tester		

# Accessories

#### Included:



Power Adapter

## Optional:





TF-P100 MicroSD Memory Card

PFM900-E Integrated Mount Tester



### Dimensions (mm[inch])







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