

# DH-SD52C432GB-HNR

4MP 32x In-ceiling 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.

# 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.
- SMD 4.0.
- · IK10.











#### 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.

Technical Specification							Supports face detection, optimization, tracking, capturing pictures, uploading high-quality face snapshots, and face enhancement; Supports attributes extraction. 6 attributes
Camera							
Image Sensor	1/2.8" CMOS					Face Detection	and 8 expressions: Gender, age, glasses, expressions (angry, sad, hate, scary, surprise, calm, happy and confused), mask, mustache; Supports face cutout: Face,
Pixel	4 MP					one-inch photo. Capturing strategies include real-time capturing, optimization, and quality first	
Max. Resolution	2560 (H) × 1440 (V)					Supports tripwire for people counting at entrances and	
ROM	4 GB					People Counting	exits, counting the number of people staying in an area and queuing in an area, and displaying and exporting reports based on the day, week and month
RAM	1 GB					Auto Tracking	Yes
Electronic Shutter Speed	1/1 s-1/30,000 s					SMD	SMD 4.0
Scanning System	Progressive					55	Uses deep learning algorithms and works with back-end
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6					Acupick	devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets
Lens						Auto Patrol	It triggers the IVS rule when a target is detected and makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets
Focal Length	4.8 mm-154 mm					Video	F
Max. Aperture	F1.6–F4.0 H: 55.8°–2.3°					Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG
Field of View V: 31.9° –1.3° D: 63.7° –2.7°						·	(Sub Stream1); Smart H.264+
Optical Zoom	32×					Streaming Capability	3 streams
Focus Control	Auto; semi-auto; manual					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)
Close Focus Distance	0.1 m-1.5 m	0.1 m-1.5 m				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)
Iris Control	Auto; manual					Dit Data Cantual	Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)
DORI Distance	Detect	Observe	Recognize	Identify		Bit Rate Control	CBR/VBR H264: 96–14848 Kbps
	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)		Video Bit Rate	H265: 38–8960 Kbps
PTZ						Day/Night	Auto (ICR)/Color/B/W
Pan/Tilt Range	Tilt: 0° to +90°, auto flip 180 Pan: 0° to 360° endless					BLC	Yes
Manual Control Speed	Pan: 0.1°/s-350°/s; Tilt: 0.1°/s-250°/s					WDR	120 dB
Preset Speed	Pan: 500°/s; Tilt: 500°/s					HLC	Yes
Preset	300					White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Tour	8 (up to 32 presets per tour)					Gain Control	Auto; manual
Pattern	5					Noise Reduction	2D NR; 3D NR
Scan	5					Motion Detection	Yes
Power-off Memory	Yes					Region of Interest (RoI)	Yes
Idle Motion	Pattern; Preset; Scan; Tour					Image Stabilization	Electronic (EIS)
PTZ Protocol	DH-SD					Defog	Electronic
Intelligence						Digital Zoom	16×
	Detects motor and non-motor vehicles, faces and human bodies. It also performs tracking, takes snapshots,					Image Rotation	180°
Video Metadata	uploads high-quality face images and optimizes images. It extracts attributes from motor vehicles, detecting up to 10 attributes for them					Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
	Tripwire; intrusion; climbing fences; loitering detection;					S/N Ratio	≥55 dB
IVS (Perimeter Protection) abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking						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				
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)				

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					
	DC 24 V/2.5 A	Power Adapter					
Accessories	TF-P100	MicroSD Memory Card					
	PFM900-E	Integrated Mount Tester					

## Accessories

## Included:



DC24V/2.5A Power Adapter

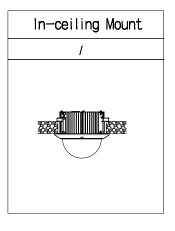
# Optional:







PFM900-E Integrated Mount Tester



When the vertical field of view is between 0° and 10°, the image might present different degrees of ghosting.

3.7 kg (8.16 lb)

Gross Weight

# Dimensions (mm[inch])

