

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.
- · SMD4.0.
- · 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 Specificati	on	Auto Tracking	Yes
Camera		SMD	Yes
Image Sensor	1/2.8" CMOS	Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events.
Pixel	4 MP	Video	that does are interested in 1011 5MB events.
Max. Resolution	2560 (H) × 1440 (V)	Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG
ROM	4 GB	·	(Sub Stream1); Smart H.264+
RAM	1 GB	Streaming Capability	3 streams 4M (2560 × 1440); 3M (2048 × 1536); 1080p (1920 ×
Electronic Shutter Speed	1/1 s-1/30,000 s	Resolution	1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning System	Progressive	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)
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6		Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)
Lens		Bit Rate Control	CBR/VBR
Focal Length	4.8 mm-154 mm	Video Bit Rate	H264: 96–14848 Kbps H265: 38–8960 Kbps
Max. Aperture	F1.6-F4.0	Day/Night	Auto (ICR)/Color/B/W
Field of View	H: 55.8°-2.3° V: 31.9°-1.3°	BLC	Yes
rield of view	V: 51.9 -1.5 D: 63.7°-2.7°	WDR	120 dB
Optical Zoom	32×	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–1.5 m	Gain Control	Auto; manual
Iris Control	Auto; manual	Noise Reduction	2D NR; 3D NR
DORI Distance	Detect Observe Recognize Identify	Motion Detection	Yes
	3,080 m 1216.6 m 616 m 308 m (10,104.99 ft) (3,991.47 ft) (2,021.00 ft) (1,010.50 ft)	Region of Interest (RoI)	Yes
PTZ		Image Stabilization	Electronic (EIS)
Pan/Tilt Range	Tilt: 0° to +90°, auto flip 180 Pan: 0° to 360° endless	Defog	Electronic
Manual Control Speed	Pan: 0.1°/s–350°/s; Tilt: 0.1°/s–250°/s	Digital Zoom	16×
Preset Speed	Pan: 500°/s; Tilt: 500°/s	Image Rotation	180°
Preset	300	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	≥55 dB
Pattern	5	Audio	
Scan	5	Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1;
Power-off Memory	Yes	Network	G729; G723
Idle Motion	Pattern; Preset; Scan; Tour	Network Port	RJ-45 (10/100 Base-T)
PTZ Protocol	DH-SD	NELWOIK FOIL	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP;
Intelligence IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking	Network Protocol	RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP
,,	detection; people gathering; vehicle/human alarm classification; linkage tracking	Interoperability	ONVIF (Profile S&G&T); CGI; SDK
	Supports face detection, optimization, tracking, capturing pictures, uploading high-quality face snapshots, and face	Streaming Method	Unicast/Multicast
Face Detection	enhancement; Supports attributes extraction. 6 attributes and 8 expressions: Gender, age, glasses, expressions	User/Host	20 (total bandwidth: 64 M)
	(angry, sad, hate, scary, surprise, calm, happy and confused), mask, mustache; Supports face cutout: Face,	Storage	Micro SD card (512 GB); FTP/SFTP; NAS

one-inch photo. Capturing strategies include real-time capturing, optimization, and quality first.

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° and 10° , 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	
	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

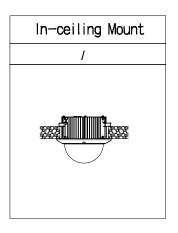
Optional:







PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

