

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	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-au	uto; manual			
Close Focus Distance	0.1 m-1.5 m				
Iris Control	Auto; manual				
	Detect	Observe	Recognize	Identify	
DORI Distance	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 pi	resets per tour)			
Pattern	5				
Scan	5				
Power-off Memory	Yes				
Idle Motion	Pattern; Preset; Scan; Tour				
PTZ Protocol	DH-SD				
Intelligence					
IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking				
Face Detection	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 (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.				

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	CGI; SDK; ONVIF (Profile S&G&T); P2P		
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)		

Ordering Information				
Туре	Model	Description		
4MP WizSense	DH-SD52C432GB-HNR	4MP 32x Starlight WizSense Network PTZ Camera		
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		
	РҒМ900-Е	Integrated Mount Tester		

Accessories

Included:



Power Adapter

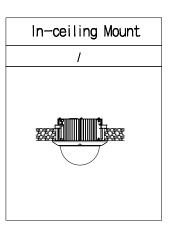
Optional:



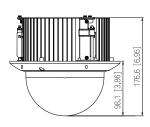


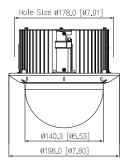
TF-P100 MicroSD Memory Card

PFM900-E Integrated Mount Tester



Dimensions (mm[inch])







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