



DH-SD5A432GB-HNR

4MP 32x Starlight IR WizSense Network PTZ Camera



- · 1/2.8" 4Megapixel STARVIS™ CMOS.
- · Powerful 32x optical zoom.
- · Max. 25/30 fps@4M.
- · IR distance up to 150 m.
- \cdot Auto Tracking 3.0.
- · Face Detection.
- · SMD 4.0.
- · PoE+.
- · IP67, IK10.

Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopts 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

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day.

Functions

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 and zoom actions of the camera to automatically track an object in motion, to keep it in view of the camera. Tracking 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.

Face Detection

Supports 6 attributes and 8 expressions: Gender, age, glasses, mask, beard and expressions (anger, sadness, disgust, fear, surprise, calm, happiness, and confusion). It also supports face cutout settings: Face, and single inch photo. Three snapshot methods are also featured: Real-time snapshot, priority snapshot, and quality priority.











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.

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.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Technical Specification	1	Intelligence	
Camera			Detects motor and non-motor vehicles, faces and
Image Sensor	1/2.8" CMOS	Video Metadata	human bodies. It also performs tracking, takes snapshots, uploads high-quality face images and optimizes images. It extracts attributes from motor vehicles, detecting up to 10 attributes for them.
Pixel	4 MP		
Max. Resolution	2560 (H) × 1440 (V)	IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
ROM	4 GB		
RAM	1 GB		Supports face detection, face bounding box, capturing snapshots, uploading face snapshots, enhancing
Electronic Shutter Speed	1/1 s-1/30,000 s	Face Detection	face images, and selecting a preferred image among a group of snapshots. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. The attributes are gender, age, glasses, mask, mustache and expressions. The expressions are angry, sad, hate, scared, surprised, calm, happy and confused. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group of snapshots.
Scanning System	Progressive		
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)		
Illumination Distance	150 m (492.13 ft) (IR)		
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR		
Illuminator Number	4 (IR)		Supports tripwire for people counting at entrances and
Lens		People Counting	exits, counting the number of people staying in an area and queuing in an area, and displaying and exporting
Focal Length	4.8 mm–154 mm		reports based on the day, week and month.
Max. Aperture	F1.6-F4.0	Auto Tracking	Yes
Field of View	H: 55.8°-2.4°; V: 31.9°-1.3°; D: 63.7°-2.7°	SMD	SMD 4.0
Optical Zoom	32×	Acupick	Uses deep learning algorithms and works with back- end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.
Focus Control	Auto; semi-auto; manual	, loap.cix	
Close Focus Distance	0.8 m-5.0 m (2.62 ft-16.40 ft)	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.
Iris Control	Auto; manual	Auto Patroi	
	Detect Observe Recognize Identify	Video	
	2,124 m 839 m 425 m 212 m (6,968.50 ft) (2,752.63 ft) (1,394.36 ft) (695.54 ft)	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; H.264B; H.264H; MJPEG (Sub Stream 1)
DORI Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability	Streaming Capability	3 streams
	of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and	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)
commissioning manual/project design tool. PTZ		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)
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180°	Bit Rate Control	CBR; VBR
Manual Control Speed	Pan: 0.1°/s-300°/s Tilt: 0.1°/s-200°/s	Video Bit Rate	H264: 96 Kbps-14848 Kbps H265: 38 Kbps-8960 Kbps
Preset Speed	Pan: 400°/s; Tilt: 300°/s	Day/Night	Auto (ICR); Color; B/W
Preset	300	BLC	Yes
Tour	8 (up to 32 presets per tour)	WDR	120 dB
Pattern	5	White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
Scan	5	Gain Control	Auto; manual
Power-off Memory	Yes	Noise Reduction	2D NR; 3D NR
Idle Motion	Preset; Pattern; Tour; Scan	Motion Detection	Yes
		Region of Interest (RoI)	Yes

Defog Electronic Digital Zoom 16× Image Rotation 180° Privacy Masking Upto 24 areas can be set, with up to 8 areas in the same view S/N Ratio 255 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) HTTP, HTTPS; IPV4; RTSP; UDP; SMTP; NTP, DHCP; DMS; DMS; Pios, 802 1x; CoS; FTP, UPPP; ICMP; SMMP; SMNP y1/Az2/x/ (MISL2); IGMR; ARP; RTCP; RTP; PDP6; RTMP; TCP; TLSV1.2; SYSLOG(REMOTE LOGS); SSI. Interoperability ONVIK(Profile S&G&T1 CGI; SDK Streaming Method Unicast; Multicast User/Host 20 (total bandwidth: 64 M) Storage FTP; Micro SD card (512 GB); NAS E2 and later versions Firefox 52 and earlier versions Firefox 52 and earlier versions Safari Management Software Smart PSS; DSS; DMSS; Easy4ip; IVSS Mobile Client IOS; Android Certification CE: ENSS032/ENSS024/ENS0130-4 FCC; Part1S subpart8, ANSI C63-4-2014 UL: UL60950-1+CAN/CSA C22.2; No 60950-1 Port Alarm I/O 2/1 Audio I/O 1/1 Two-way Audio Yes Alarm Event Methods and Capture; preset; tour; pattern; recording; triggering on-off value output; audio; send email Alarm Event Methods and chection; memory space detection; memory card state detection; memory space detection; memory card state detection; memory space detection; memory card state detection; memory space detection; power exception detection Power Consumption Basic: 13 W Maix: 22 W (illuminator + PTZ working + Heater + Fan) Environment Operating Humidity 95% Protection Protection procedure protection; voltage transient protection	Image Stabilization	Electronic (EIS)	
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Audio I/O Two-way Audio Yes Capture; preset; tour; pattern; recording; triggering on-off value output; audio; send email Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection Power Power Supply 24 VDC, 2.5 A ± 25% PoE +(802.3at) Power Consumption Basic: 13 W Max: 22 W (illuminator + PTZ working + Heater + Fan) Environment Operating Temperature -40 °C to +70 °C (-40 °F to +158 °F) Operating Humidity S95% Protection IP67; IK10; TVS 6000 V lightning proof; surge	Port		
Two-way Audio Alarm Linkage Capture; preset; tour; pattern; recording; triggering on-off value output; audio; send email Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection Power Power Supply 24 VDC, 2.5 A ± 25% PoE + (802.3at) Power Consumption Basic: 13 W Max: 22 W (illuminator + PTZ working + Heater + Fan) Environment Operating Temperature -40 °C to +70 °C (-40 °F to +158 °F) Operating Humidity ≤95% Protection IP67; IK10; TVS 6000 V lightning proof; surge	Alarm I/O	2/1	
Alarm Linkage Capture; preset; tour; pattern; recording; triggering on-off value output; audio; send email Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection Power Power Supply 24 VDC, 2.5 A ± 25% PoE +(802.3at) Power Consumption Basic: 13 W Max: 22 W (illuminator + PTZ working + Heater + Fan) Environment Operating Temperature -40 °C to +70 °C (-40 °F to +158 °F) Operating Humidity S95% Protection IP67; IK10; TVS 6000 V lightning proof; surge	Audio I/O	1/1	
Alarm Linkage on-off value output; audio; send email Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection Power Power Supply 24 VDC, 2.5 A ± 25% PoE +(802.3at) Power Consumption Basic: 13 W Max: 22 W (illuminator + PTZ working + Heater + Fan) Environment Operating Temperature -40 °C to +70 °C (-40 °F to +158 °F) Operating Humidity ≤95% Protection IP67; IK10; TVS 6000 V lightning proof; surge	Two-way Audio	Yes	
Alarm Event network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection Power Power Supply 24 VDC, 2.5 A ± 25% PoE + (802.3at) Power Consumption Basic: 13 W Max: 22 W (illuminator + PTZ working + Heater + Fan) Environment Operating Temperature -40 °C to +70 °C (-40 °F to +158 °F) Operating Humidity ≤95% Protection IP67; IK10; TVS 6000 V lightning proof; surge	Alarm Linkage	on-off value output; audio; send email	
Power Supply 24 VDC, 2.5 A ± 25% PoE +(802.3at) Power Consumption Basic: 13 W Max: 22 W (illuminator + PTZ working + Heater + Fan) Environment Operating Temperature -40 °C to +70 °C (−40 °F to +158 °F) Operating Humidity ≤95% Protection IP67; IK10; TVS 6000 V lightning proof; surge	Alarm Event	network disconnection detection; IP conflict detection; memory card state detection; memory space	
Power Supply PoE +(802.3at) Power Consumption Basic: 13 W Max: 22 W (illuminator + PTZ working + Heater + Fan) Environment Operating Temperature -40 °C to +70 °C (-40 °F to +158 °F) Operating Humidity ≤95% Protection IP67; IK10; TVS 6000 V lightning proof; surge	Power		
Power Consumption Max: 22 W (illuminator + PTZ working + Heater + Fan) Environment Operating Temperature	Power Supply		
Operating Temperature −40 °C to +70 °C (−40 °F to +158 °F) Operating Humidity ≤95% Protection IP67; IK10; TVS 6000 V lightning proof; surge	Power Consumption		
Operating Humidity ≤95% Protection IP67; IK10; TVS 6000 V lightning proof; surge	Environment		
Protection IP67; IK10; TVS 6000 V lightning proof; surge	Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)	
	Operating Humidity	≤95%	
	Protection		

Structure

Product Dimensions	332 mm × Φ190 mm (13.07" × Φ7.48")	
Net Weight	4.7 kg (10.36 lb)	
Gross Weight	8 kg (17.64 lb)	

Ordering I	Ordering Information	
Туре	Model	Description
4MP WizSense	DH-SD5A432GB-HNR	4MP 32x Starlight IR WizSense Network PTZ Camera
Network PTZ Camera	SD5A432GB-HNR	4MP 32x Starlight IR WizSense Network PTZ Camera
	PFB305W	Wall Mount Bracket
	DC24V/2.5A	Power Adapter
	PFA111	Mount Adapter
	PFA140	Power Box
Accessories	PFB300C	Ceiling Mount Bracket
	PFB301C	Ceiling Mount Bracket

Junction Box

Pole Mount Bracket

Corner Mount Bracket

Accessories

PFA120

PFA150

PFA151

Included:



PFB305W Wall Mount Bracket



DC24V/2.5A Power Adapter

Optional:



PFA111 Mount Adapter



PFA140 Power Box



PFB300C Ceiling Mount Bracket



PFB301C Ceiling Mount Bracket



PFA120 Junction Box



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket

	1	T
Wall Mount	Ceiling Mount	Ceiling Mount
PFB305W+PFA120	PFA111+PFB300C	PFA111+PFB301C
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)
PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB300C+PFA150

Dimensions (mm[inch])

