



DH-SDZ4032-HNR-ZB

4MP 32x Starlight Zoom Network 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

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera can provide large monitoring range and great detail. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high-quality image and good protection, which make it meet most of the requirements of video surveillance applications.

Functions

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 Lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

- · 32x optical zoom
- Starlight technology
- · H.265 encoding
- · Perimeter protection
- Face detection
- · Smart capture
- · Supports PoE













Metadata

Metadata is attribute information extracted from a target which can be used for data retrieval. There are four kinds of metadata supported by Dahua PTZ WizMind camera: Human face, human body, motor vehicle and non-motor vehicle. Facial information includes gender, age, glasses, etc. Human body information includes hat, top, top color, bottom, bottom color, bag, etc. Motor vehicle information includes plate color, type, vehicle color, sunshield, ornament, calling, seatbelt, smoking, annual inspection sticker, etc. Non-motor vehicle information includes type, color, top type, top color, people number, etc.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

Face Detection

6 attributes and 4 expressions: Gender, age, glasses, expressions (surprise, calm, happy and confused); Support face cutout: Face, one-inch photo.

Technical Specification		Bit Rate	H.264: 2816 kbps–8192 kbps H.265: 1024 kbps –7936 kbps
Camera		Day/Night	Auto (ICR)/Color/B/W
Image Sensor	1/2.8" CMOS	BLC	Yes
Pixel	4MP	WDR	Yes
Max. Resolution	2560 (H) x 1440 (V)	HLC	Yes
ROM	256 MB	White Balance	Auto; indoor; outdoor; tracking; manual; sodium
RAM	1 GB		lamp; natural; street lamp
Electronic Shutter Speed	1/3 s-1/100,000 s	Gain Control	Auto; Manual
Scanning System	Progressive	Noise Reduction	2D; 3D
Min. Illumination	Color: 0.005 Lux@F1.35 B/W: 0.0005 Lux@F1.35 0 Lux (IR light/laser on)	Motion Detection Region of Interest (RoI)	Yes
Lens	(8)	Defog	Digital
Focal Length	4.8 mm-135 mm	Flip	180°
Max. Aperture	F1.5–F4.0	S/N Ratio	≥ 55 dB
Field of View	H: 55.8°-2.3°; V: 31.9°-1.3°; D: 63.7°-2.7°	Audio	
Optical Zoom	32x	Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1
Focus Control	Auto; Semi-Auto; Manual	Network	
Close Focus Distance	0.1 m-1.5 m (0.33 ft-4.92 ft)	Ethernet	RJ-45 (10/100Base-T)
Iris Control	Auto; Semi-Auto; Manual Detect Observe Recognize Identify	Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; QoS; FTP; SMTP; UPnP; SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; SNMP v1/ v2c/v3 (MIB-2); RTCP; RTMP
DORI Distance	2700 m 1066 m 540 m 270 m (8858.27 ft) (3497.38 ft) (1771.65 ft) (885.83 ft)	Interoperability	ONVIF (Profile S&G&T); CGI
PTZ		Streaming Method	Unicast; multicast
Preset	300	User/Host	20 (total bandwidth: 64 MB)
Power-off Memory	Yes	Storage	Imou cloud; FTP; Micro SD card (max. 512 GB); NAS
Idle Motion Artificial Intelligence	Preset; Tour; Pattern; Scan	Browser	IE7 and later Chrome Firefox Safari
Perimeter Protection Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.		Management Software	Smart PSS; DSS; IVSS; NVR; ConfigTool; Smart Player; Imou
		Mobile Phone	iOS; Android
Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.	Certification	
Face Detection	Yes	Certifications	CE:EN55032/EN55024/EN50130-4 FCC:Part15 subpartB, ANSI C63.4-2014
Video		Port	. 30.11 at 123 340 parts, Airor 603.4-2014
Compression	H.265; Smart H.265+; Smart H.264+; H.264; MJPEG (Sub Stream)	Audio I/O	1/1
Streaming Capability	3 streams	Two-way Audio	Yes
Resolution	4M (2560 × 1440); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288)	Alarm I/O	2/1
Frame Rate	Main stream: 4M/1080p/720p (1-25/30 fps) Sub stream 1: D1/CIF (1-25/30 fps)	Alarm Linkage	Capture; preset; tour; pattern; SD card recording; triggering on-off value output; sending email
Bit Rate Control	Sub stream 2: 720p (1–25/30 fps) Variable; Constant	Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection

Wiz Sense | DH-SDZ4032-HNR-ZB

Power				
Power Supply	12 V DC, 1.5A ± 10% PoE (802.3af)			
Power Consumption	6W			
Environment				
Operating Temperature	-25 °C to +60 °C (-13 °F to +140 °F)			
Operating Humidity	≤95%RH			
Protection	TVS 6000V lightning proof; surge protection; voltage transient protection			
Certification				
Certification	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014			
Structure				
Dimensions	160.3 mm × 70.0 mm × 78.0 mm (6.31" × 2.76" × 3.07") (L × W × H)			
Net Weight	0.8 kg (1.76 lb)			

Ordering Information				
Туре	Model	Description		
4M Camera	DH-SDZ4032-HNR-ZB	4MP 32x Starlight Zoom Network Camera, PAL		
	DH-SDZ4032N-HNR-ZB	4MP 32x Starlight Zoom Network Camera, NTSC		
	SDZ4032-HNR-ZB	4MP 32x Starlight Zoom Network Camera, PAL		
	SDZ4032N-HNR-ZB	4MP 32x Starlight Zoom Network Camera, NTSC		
Accessories	Mount Adapter	Mount Adapter[Included]		

Installation



Dimensions (mm[inch])



