

DH-SD29404DB-GNY

4MP 4x IR 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

Dahua WizSense PTZ camera adopts advanced deep learning algorithms to support primeter protection with high accuracy. The camera is equipped with smooth control, high quality image, and good protection, meeting compact size demands of video surveillance applications.

Functions

SMD 3.0

Empowered by Deep-Learning Algorithms, Dahua SMD filters out motion detection alarms triggered by targets that are not a concern. It quickly recognizes humans and vehicles, triggering alarms when an intrusion occurs.

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 CMOS.
- · Max. 25/30fps@4MP.
- · IR distance up to 50 m.
- · 4x optical zoom.
- · WDR.
- · SMD 3.0.
- · Built-in Mic.
- · PoE.













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.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, a flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality videos without straining the network. Smart H.265+ technology outranks standard H.265 video compression, reducing bit rate and storage requirements by up to 70%.

Technical Specification					PTZ Protocol	DH-SD4	
Camera					Intelligence	Intelligence	
Image Sensor	1/2.8" CMOS 4 MP				IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification	
Pixel							
Max. Resolution	2560 (H) × 1440 (V)				Face Detection	Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time	
ROM	128 MB						
RAM	512 MB				SMD	capturing and quality first. Yes	
Electronic Shutter Speed	1/1s-1/30,0	00s			Video	163	
Scanning System	Progressive					H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG	
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)				Video Compression Streaming Capability	(Sub Stream); Smart H.264+ 3 streams	
Illumination Distance	50 m (164.04 ft) (IR)					4M (2560 × 1440); 3M (2304 × 1296); 1080P (1920	
Illuminator On/Off Control	Zoom Prio; N	Manual; Auto;	Off		Resolution	× 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Illuminator Number	2 (IR)	2 (IR)				Main stream: 4M/3M/1080p/1.3M/720p@{1-25/30	
Lens					Video Frame Rate	fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps)	
Focal Length	2.8 mm-12 mm				Bit Rate Control	Sub stream 2: 720p@(1-25/30 fps) CBR/VBR	
Max. Aperture	F1.6-F3.0					H264: 24 Kbps-13056 Kbps	
Field of View	H: 94.9°–30.1°; V: 51°–17.1°; D: 112.3°–34.6°				Video Bit Rate	H265: 9 Kbps-7936 Kbps	
Optical Zoom	4x				Day/Night	ICR: Auto; color; B/W Electronic: Auto; color; B/W	
Focus Control	Auto; semi-auto; manual				BLC	Yes	
Close Focus Distance	1.5 m (4.92 f	ft)			WDR	120 dB	
Iris Control	Fixed				HLC	Yes	
	Detect 171 m	Observe 67 m	Recognize 34 m	Identify 17 m	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	
	(561.02 ft)	(219.82 ft)	(111.55 ft)	(55.77 ft)	Gain Control	Auto; manual; gain prio	
DORI Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability 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 commissioning manual/project design tool.				Noise Reduction	2D NR; 3D NR	
					Motion Detection	Yes	
					Region of Interest (RoI)	Yes	
PTZ	COMMISSION	ing manaai/pr	oject design to	oi.	Image Stabilization	Electronic	
Pan/Tilt Range		60° not endless	s;		Defog	Electronic	
raily flit halige	Tilt: 0° to +9				Digital Zoom	16 ×	
Manual Control Speed	Pan: 0.1°/s-1 Tilt: 0.1°/s-6				Image Rotation	180°	
Preset Speed	Pan: 100°/s; Tilt: 60°/s				S/N Ratio	≥ 55 dB	
Preset	300				Audio		
Tour	8 (up to 32 presets per tour)				Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM	
Pattern	5				Network		
Scan	5				Network Port	RJ-45 (10/100 Base-T)	
Power-off Memory	Yes					FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP;	
Idle Motion	Pattern; Preset; Scan; Tour				Network Protocol	NFS; ICMP; UDP; IGMP; SMB; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP	

WIZ SCHSC	311 3023 10 100 3111
Interoperability	CGI; SDK; ONVIF (Profile S&G&T); P2P
Streaming Method	Unicast/Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	ONVIF (Profile S&G&T); P2P; CGI; SDK
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions
Management Software	DMSS; DSS Pro
Mobile Client	iOS; Android
Certifications	
Certifications	CE: EN55032/EN 50130-4/EN 55035/EN61000-3-2/ EN61000-3-3
Port	
Audio Input	1 channel (LINE IN, bare wire, built-in mic (mutually exclusive))
Audio Output	1 channel (LINE OUT,bare wire)
Alarm Input	2 (on-off value input: 0–5 VDC)
Alarm Output	1
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; power exception detection
Power	
Power Supply	12 VDC, 2A ± 10% (optional) PoE (802.3af)
Power Consumption	Basic: 5 W Max: 10 W (illuminator+PTZ)
Environment	
Operating Temperature	-30 °C to +50 °C (-22 °F to +122 °F)
Operating Humidity	≤ 95%
Protection	6000V lightning proof; surge protection; voltage transient protection
Structure	
Product Dimensions	117.4 mm × Φ132.1 mm (4.62" × Φ5.20")
Net Weight	0.713 kg (1.57 lb)
Gross Weight	1.0 kg (2.20 lb)

Ordering Information					
Туре	Model	Description			
4MP WizSense PTZ Camera	DH-SD29404DB-GNY	4MP 4x IR WizSense Network PTZ Camera			
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Accessories (Optional)	DC 12 V/2A	Power Adapter			
	TF-P100	MicroSD Memory Card			
	PFA103 + PFB300S	Mount Adapter			
	PFB302S + PFB300S	Wall Mount Bracket			
	PFB300C	Ceiling Mount Bracket			
	PFA150	Pole Mount Bracket			
	PFA151	Corner Mount Bracket			

Accessories

Optional:





*a***Jhua**256_{GB} UA2



DC 12 V/2A Power Adapter

MicroSD Memory Card

PFA103 + PFB300S Mount Adapter









PFB302S + PFB300S Wall Mount Bracket

PFB300C Ceiling Mount Bracket

PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket

Ceiling Mount	Wall Mount	Wall Mount
PFA103+PFB300C	PFA103+PFB302S	PFA103+PFB300S
Corner Mount	Pole Mount (Horizontal)	Pole Mount (Vertical)
PFA103+PFB300S+PFA151	PFA103+PFB300C+PFA150	PFA103+PFB302S+PFA152-E
Ceiling Mount		
1		

Dimensions (mm[inch])

