

DH-SD29204DB-GNY-W

2MP 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" 2Megapixel CMOS.
- · Max. 25/30fps@1080P.
- · IR distance up to 50 m.
- · 4x optical zoom.
- · WDR.
- · SMD 3.0.
- · Built-in Mic.
- · Wi-Fi.













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	
Image Sensor	1/2.8" CMOS			IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification
Pixel	2 MP				
Max. Resolution	1920 (H) × 1080 (V)			Face Detection	Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing and quality first.
ROM	128 MB				
RAM	512 MB			SMD	Yes
Electronic Shutter Speed	1/1s-1/30,000s			Video	
Scanning System	Progressive			Video Compression	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)			Streaming Capability	(Sub Stream); Smart H.264+ 3 streams
Illumination Distance	50 m (164.04 ft) (IR)			Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off				
Illuminator Number	2 (IR)			Video Frame Rate	Main stream: 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)
Lens				Bit Rate Control	CBR/VBR
Focal Length	2.8 mm-12 mm			Video Bit Rate	H264: 24 Kbps-8192 Kbps
Max. Aperture	F1.6-F3.0			5 (4): 1 :	H265: 9 Kbps–5632 Kbps ICR: Auto; color; B/W
Field of View	H: 101°-31.36°; V: 53.51°-17.72°; D: 120.51°-36.05°			Day/Night	Electronic: Auto; color; B/W
Optical Zoom	4x			BLC	Yes
Focus Control	Auto; semi-auto; manual			WDR	120 dB
Close Focus Distance	1.5 m (4.92 ft)			HLC	Yes
Iris Control	Fixed			White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
	Detect Observ	Recognize	Identify	Gain Control	Auto; manual; gain prio
	171 m 67 m (561.02 ft) (219.82 ft)	34 m t) (111.55 ft)	17 m (55.77 ft)	Noise Reduction	2D NR; 3D NR
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			Motion Detection	Yes
				Region of Interest (RoI)	Yes
				Image Stabilization	Electronic
commissioning manual/project design tool.			ool.	Defog	Electronic
PTZ	Day 08 to 2008 water dia			Digital Zoom	16 ×
Pan/Tilt Range	Pan: 0° to 360° not endless Tilt: 0° to +90°			Image Rotation	180°
Manual Control Speed	Pan: 0.1°/s–100°/s Tilt: 0.1°/s–60°/s			S/N Ratio	≥ 55 dB
Preset Speed	Pan: 100°/s; Tilt: 60°/s			Audio	
Preset	300			Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM
Tour	8 (up to 32 presets per tour)			Network	
Pattern	5			Network Port	RJ-45 (10/100 Base-T)
Scan	5			Wi-Fi	Yes
Power-off Memory	Yes			Wi-Fi Standard	IEEE802.11b; IEEE802.11g; IEEE802.11n
Idle Motion	Pattern; Preset; Scan; Tour			Wi-Fi Frequency Range	2.4 GHz

Wi-Fi Transmission Rate	75 Mbps			
Max Transmission Power	≤20 dBm@2400–2483.5 MHz			
Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPs; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; SMB; 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			
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 CE-RED: EN300328/EN62311/EN301489-17			
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)			
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			
2MP WizSense PTZ Camera	DH-SD29204DB-GNY-W	2MP 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:







TF-P100 MicroSD Memory Card



PFA103 + PFB300S Mount Adapter



PFB302S + PFB300S Wall Mount Bracket



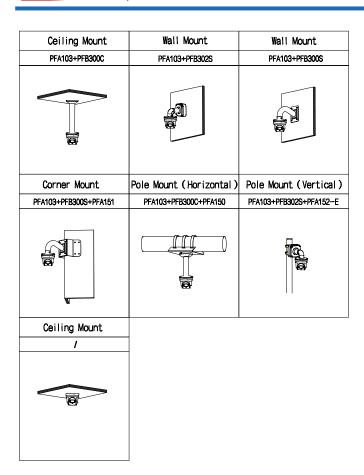
PFB300C Ceiling Mount Bracket



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



Dimensions (mm[inch])

