

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

Empowered by Deep-Learning Algorithms, Dahua SMD Plus 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		Video	
Camera		Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPE
Image Sensor	1/2.8" CMOS	Streaming Capability	(Sub Stream); Smart H.264+ 3 streams
Pixel	2 MP	Streaming capability	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (128
Max. Resolution	1920 (H) × 1080 (V)	Resolution	720); D1 (704 × 576/704 × 480); VGA (640 × 480); C (352 × 288/352 × 240)
ROM	128 MB	Video Frame Rate	Main stream: 1080p/1.3M/720p@(1-25/30 fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps)
RAM	512 MB	Video Frame Nate	Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)
Electronic Shutter Speed	1/1s-1/30,000s	Bit Rate Control	CBR/VBR
Scanning System	Progressive	Video Bit Rate	H264: 24 Kbps–8192 Kbps H265: 9 Kbps–5632 Kbps
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)	Day/Night	ICR: Auto; color; B/W Electronic: Auto; color; B/W
Illumination Distance	50 m (164.04 ft) (IR)	BLC	Yes
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off	WDR	120 dB
Illuminator Number	2 (IR)	HLC	Yes
Lens		White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Focal Length	2.8 mm-12 mm	Gain Control	Auto; manual; gain prio
Max. Aperture	F1.6-F3.0	Noise Reduction	2D NR; 3D NR
Field of View	H: 101°-31.36°; V: 53.51°-17.72°; D: 120.51°-36.05°	Motion Detection	Yes
Optical Zoom	4×	Region of Interest (RoI)	Yes
Focus Control	Auto; semi-auto; manual	Image Stabilization	Electronic
Close Focus Distance	1.5 m (4.92 ft)	Defog	Electronic
PTZ		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	S/N Ratio	≥ 55 dB
·	Tilt: 0.1°/s-60°/s	Audio	
Preset Speed	Pan: 100°/s; Tilt: 60°/s	Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM
Preset	300	Network	
Tour	8 (up to 32 presets per tour)	Network Port	RJ-45 (10/100 Base-T)
Pattern	5	Wi-Fi	Yes
Scan	5	Wi-Fi Standard	IEEE802.11b; IEEE802.11g; IEEE802.11n
Power-off Memory	Yes	Wi-Fi Frequency Range	2.4 GHz
Idle Motion	Pattern; Preset; Scan; Tour	Wi-Fi Transmission Rate	75 Mbps
PTZ Protocol	DH-SD4		FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE;
Intelligence	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving;	Network Protocol	NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UP NFS; ICMP; UDP; IGMP; SMB; HTTP; SSL; DHCP; SM Qos; RTSP; ARP
IVS (Perimeter Protection)	parking detection; people gathering; human alarm classification	Interoperability	CGI; SDK; ONVIF (Profile S&G&T); P2P
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.	Streaming Method	Unicast/Multicast
		User/Host	20 (total bandwidth: 64 M)
SMD	Yes	Storage	Micro SD card (512 GB); FTP/SFTP; NAS

wiz sense	JH-SD29204DB-GNY-W
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	

−30 °C to +50 °C (−22 °F to +122 °F)

6000V lightning proof; surge protection; voltage

117.4 mm × Φ132.1 mm (4.62" × Φ5.20")

≤ 95%

transient protection

0.713 kg (1.57 lb)

1.0 kg (2.20 lb)

Operating Temperature Operating Humidity

Protection

Structure

Net Weight Gross Weight

Product Dimensions

Ordering Information			
Туре	Model	Description	
2MP WizSense PTZ Camera	DH-SD29204DB-GNY-W	2MP 4x IR WizSense Network PTZ Camera	
	SD29204DB-GNY-W	2MP 4x IR WizSense Network PTZ Camera	
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



Power Adapter



PFB302S + PFB300S Wall Mount Bracket



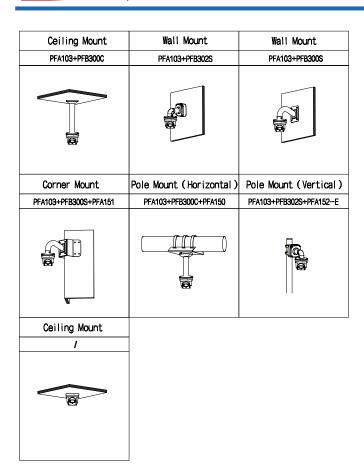
PFB300C Ceiling Mount Bracket



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



Dimensions (mm[inch])

