

# 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.
- $\cdot$  IR distance up to 50 m.
- · 4x optical zoom.
- · WDR.
- · SMD 3.0.
- $\cdot$  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%.

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#### **Technical Specification**

PTZ Protocol

Intelligence

IVS (Perimeter Protection)

-				
Camera				
Image Sensor	1/2.8" CMOS			
Pixel	2 MP			
Max. Resolution	1920 (H) × 1080 (V)			
ROM	128 MB			
RAM	512 MB			
Electronic Shutter Speed	1/1s-1/30,000s			
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	50 m (164.04	50 m (164.04 ft) (IR)		
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off			
Illuminator Number	2 (IR)			
Lens				
Focal Length	2.8 mm-12 mm			
Max. Aperture	F1.6-F3.0			
Field of View	H: 101°–31.36°; V: 53.51°–17.72°; D: 120.51°–36.05°			
Optical Zoom	4×			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	1.5 m (4.92 f	1.5 m (4.92 ft)		
Iris Control	Fixed			
	Detect	Observe	Recognize	Identify
DORI Distance	171 m (561.02 ft)	67 m (219.82 ft)	34 m (111.55 ft)	17 m (55.77 ft)
PTZ	(301.02 11)	(213.02 11)	(111.3311)	(55.7710)
Pan/Tilt Range		Pan: 0° to 360° not endless Tilt: 0° to +90°		
Manual Control Speed		Pan: 0.1°/s–100°/s Tilt: 0.1°/s–60°/s		
Preset Speed	Pan: 100°/s;	Pan: 100°/s; Tilt: 60°/s		
Preset	300	300		
Tour	8 (up to 32 presets per tour)			
Pattern	5	5		
Scan	5			
Power-off Memory	Yes			
Idle Motion	Pattern; Preset; Scan; Tour			

DH-SD4

Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving;

parking detection; people gathering; human alarm classification

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.	
SMD	Yes	
Video		
Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream); Smart H.264+	
Streaming Capability	3 streams	
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
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)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H264: 24 Kbps–8192 Kbps H265: 9 Kbps–5632 Kbps	
Day/Night	ICR: Auto; color; B/W Electronic: Auto; color; B/W	
BLC	Yes	
WDR	120 dB	
HLC	Yes	
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	
Gain Control	Auto; manual; gain prio	
Noise Reduction	2D NR; 3D NR	
Motion Detection	Yes	
Region of Interest (RoI)	Yes	
Image Stabilization	Electronic	
Defog	Electronic	
Digital Zoom	16 ×	
Image Rotation	180°	
S/N Ratio	≥ 55 dB	
Audio		
Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM	
Network		
Network Port	RJ-45 (10/100 Base-T)	
Wi-Fi	Yes	
Wi-Fi Standard	IEEE802.11b; IEEE802.11g; IEEE802.11n	
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; HTTP5; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; SMB; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP	

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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			
	SD29204DB-GNY-W	2MP 4x IR WizSense Network PTZ Camera			
	DC 12 V/2A	Power Adapter			
	TF-P100	MicroSD Memory Card			
	PFA103 + PFB300S	Mount Adapter			
Accessories (Optional)	PFB302S + PFB300S	Wall Mount Bracket			
	PFB300C	Ceiling Mount Bracket			
	PFA150	Pole Mount Bracket			
	PFA151	Corner Mount Bracket			

#### Accessories



DC 12 V/2A

Power Adapter

PFB302S + PFB300S

Wall Mount Bracket

PFA151 Corner Mount Bracket







PFA103 + PFB300S Mount Adapter





TF-P100

MicroSD

Memory Card

PFB300C Ceiling Mount Bracket

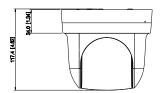


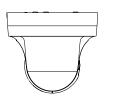
PFA150 Pole Mount Bracket

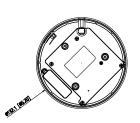
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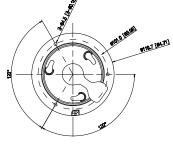
Ceiling Mount	Wall Mount	Wall Mount	
PFA103+PFB300C	PFA103+PFB302S	PFA103+PFB300S	
Corner Mount	Pole Mount (Horizontal)	Pole Mount (Vertical)	
PFA103+PFB300S+PFA151	PFA103+PFB300C+PFA150	PFA103+PFB302S+PFA152-E	
Ceiling Mount			
1			

### Dimensions (mm[inch])









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