

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.
- \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

-		
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 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	4x	
Focus Control	Auto; semi-auto; manual	
Close Focus Distance	1.5 m (4.92 ft)	
PTZ		
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; Tilt: 60°/s	
Preset	300	
Tour	8 (up to 32 presets per tour)	
Pattern	5	
Scan	5	
Power-off Memory	Yes	
Idle Motion	Pattern; Preset; Scan; Tour	
PTZ Protocol	DH-SD4	
Intelligence		
IVS (Perimeter Protection)	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	
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	

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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:

DC 12 V/2A

Power Adapter







PFA103 + PFB300S Mount Adapter



PFB300C

Ceiling Mount Bracket

TF-P100



PFA150 Pole Mount Bracket







PFA151 Corner 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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