

DH-SD29204DB-GNY

2MP 4x IR WizSense Network PTZ Camera





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.
- · 4x optical zoom.
- · Max. 25/30fps@1080P.
- · 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		Face Detection	Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one-	
Camera			inch photo; Capturing strategies include real-time capturing and quality first	
Image Sensor	1/2.8" CMOS	SMD	Yes	
Pixel	2 MP	Video		
Max. Resolution	1920 (H) × 1080 (V)	Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG	
ROM	128 MB		(Sub Stream); Smart H.264+	
RAM	512 MB	Streaming Capability	3 streams 1080p (1920 × 1080); 1.3M (1280 × 960);	
Electronic Shutter Speed	1/1s-1/30,000s	Resolution	720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Scanning System	Progressive		Main stream: 1080p/1.3M/720p@(1-25/30 fps)	
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux@F1.6 (IR light on)	Video Frame Rate	Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)	
Illumination Distance	50 m (164.04 ft) (IR)	Bit Rate Control	CBR/VBR H264: 24 Kbps-8192 Kbps	
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off	Video Bit Rate	H265: 9 Kbps–5632 Kbps	
Illuminator Number	2 (IR)	Day/Night	ICR: Auto; color; B/W Electronic: Auto; color; B/W	
Lens		BLC	Yes	
Focal Length	2.8 mm-12 mm	WDR	120 dB	
Max. Aperture	F1.6-F3.0	HLC	Yes	
Field of View	H: 101°-31.36°; V: 53.51°-17.72°; D: 120.51°-36.05°	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	
Optical Zoom	4×	Gain Control	Auto; manual; gain prio	
Focus Control	Auto; semi-auto; manual	Noise Reduction	2D NR; 3D NR	
Close Focus Distance	1.5 m (4.92 ft)	Motion Detection	Yes	
	Detect Observe Recognize Identify	Region of Interest (RoI)	Yes	
DORI Distance	171 m 67 m 34 m 17 m (561.02 ft) (219.81 ft) (111.55 ft) (55.77 ft)	Image Stabilization	Electronic (EIS)	
PTZ		Defog	Electronic	
Pan/Tilt Range	Pan: 0° to 360° not endless Tilt: –0° to +90°	Digital Zoom	16 ×	
Manual Control Speed	Pan: 0.1°/s-100°/s	Image Rotation	180°	
·	Tilt: 0.1°/s-60°/s	S/N Ratio	≥ 55 dB	
Preset Speed			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		FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP;	
Power-off Memory	Yes	Network Protocol	NFS; ICMP; UDP; IGMP; SMB; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP	
Idle Motion	Pattern; Preset; Scan; Tour	Interoperability	CGI; SDK; ONVIF (Profile S&G&T); P2P	
PTZ Protocol	DH-SD4	Streaming Method	Unicast/Multicast	
intelligence	ntelligence Tripwire; intrusion; crossing fence detection;		20 (total bandwidth: 64 M)	
IVS (Perimeter Protection) loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human		Storage	Micro SD card (512 GB); FTP/SFTP; NAS	
	alarm classification	Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions	

Safari 10 and later versions

wiz Sense	DH-SD29204DB-GNY		
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			

Environment

Gross Weight

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)	

1.0 kg (2.20 lb)

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







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

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])







