

DH-SD29404DB-GNY

4MP 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" 4Megapixel CMOS.
- · Max. 25/30fps@4MP.
- · 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		Video	
Camera		Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream); Smart H.264+
Image Sensor	1/2.8" CMOS	Streaming Capability	3 streams
Pixel	4 MP		4M (2560 × 1440); 3M (2304 × 1296); 1080P (1920
Max. Resolution	2560 (H) × 1440 (V)	Resolution	× 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
ROM	128 MB		Main stream: 4M/3M/1080p/1.3M/720p@(1-25/30
RAM	512 MB	Video Frame Rate	fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps)
Electronic Shutter Speed	1/1s-1/30,000s		Sub stream 2: 720p@(1-25/30 fps)
Scanning System	Progressive	Bit Rate Control	CBR/VBR
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)	Video Bit Rate	H264: 24 Kbps—13056 Kbps H265: 9 Kbps—7936 Kbps
Illumination Distance	50 m (164.04 ft) (IR)	Day/Night	ICR: Auto; color; B/W Electronic: Auto; color; B/W
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off	BLC	Yes
Illuminator Number	2 (IR)	WDR	120 dB
Lens		HLC	Yes
Focal Length	2.8 mm-12 mm	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Max. Aperture	F1.6-F3.0	Gain Control	Auto; manual; gain prio
Field of View	H: 94.9°-30.1°; V: 51°-17.1°; D: 112.3°-34.6°	Noise Reduction	2D NR; 3D NR
Optical Zoom	4×	Motion Detection	Yes
Focus Control	Auto; semi-auto; manual	Region of Interest (RoI)	Yes
Close Focus Distance	1.5 m (4.92 ft)	Image Stabilization	Electronic
PTZ		Defog	Electronic
Manual Control Speed	Pan: 0° to 360° not endless Tilt: -0° to $+90^{\circ}$	Digital Zoom	16 ×
Preset Speed	Pan: 0.1°/s-100°/s Tilt: 0.1°/s-60°/s	Image Rotation	180°
Preset	300	S/N Ratio	≥ 55 dB
Tour	8 (up to 32 presets per tour)	Audio	
Pattern	5	Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; PCM
Scan	5	Network	
Power-off Memory	Yes	Network Port	RJ-45 (10/100 Base-T)
Idle Motion	Pattern; Preset; Scan; Tour	Noture de Dresta de l	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP;
PTZ Protocol	DH-SD4	Network Protocol	NFS; ICMP; UDP; IGMP; SMB; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP
Intelligence		Interoperability	CGI; SDK; ONVIF (Profile S&G&T); P2P
	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification	Streaming Method	Unicast/Multicast
IVS (Perimeter Protection)		User/Host	20 (total bandwidth: 64 M)
	Supports face detection, snapshot, and face	Storage	ONVIF (Profile S&G&T); P2P; CGI; SDK
Face Detection	enhancement; Supports face cutout: Face, one- inch photo; Capturing strategies include real-time capturing and quality first.	Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions
SMD	Yes	Management Software	DMSS; DSS Pro

iOS; Android
CE: EN55032/EN 50130-4/EN 55035/EN61000-3-2/ EN61000-3-3
1 channel (LINE IN, bare wire, built-in mic (mutually exclusive))
1 channel (LINE OUT,bare wire)
2 (on-off value input: 0–5 VDC)
1
Capture; recoding; send email; preset; tour; pattern; alarm digital output; audio
Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection
12 VDC, 2A ± 10% (optional) PoE (802.3af)
Basic: 5 W Max: 10 W (illuminator+PTZ)
-30 °C to +50 °C (-22 °F to +122 °F)
≤ 95%
6000V lightning proof; surge protection; voltage transient protection
117.4 mm × Φ132.1 mm (4.62" × Φ5.20")

Ordering Information				
Type	Model	Description		
4MP WizSense PTZ Camera	DH-SD29404DB-GNY	4MP 4x IR WizSense Network PTZ Camera		
	SD29404DB-GNY	4MP 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		

0.713 kg (1.57 lb)

1.0 kg (2.20 lb)

Net Weight

Gross Weight

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	1	

Dimensions (mm[inch])







