

DH-SD29404DB-GNY-W

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

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.

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.

- · 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.
- · 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				Face Detection	Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time		
Camera							
Image Sensor	1/2.8"CMOS					SMD	capturing and quality first. Yes
Pixel	4 MP					Video	,
Max. Resolution	2560 (H) × 1440 (V)						H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG
ROM	128 MB					Video Compression	(Sub Stream); Smart H.264+
RAM	512 MB					Streaming Capability	3 streams
Electronic Shutter Speed	1/1s-1/30,000s					Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning System	Progressive						
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)					Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p@(1-25/30 fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 720p@(1-25/30 fps)
Illumination Distance	50 m (164.04 ft) (IR)					Bit Rate Control	CBR/VBR
Illuminator On/Off Control		Manual; Auto;	Off			Video Bit Rate	H264: 24 Kbps–13056 Kbps
Illuminator Number	2 (IR)					Video Bit Rate	H265: 9 Kbps–7936 Kbps
Lens						Day/Night	ICR: Auto; color; B/W Electronic: Auto; color; B/W
Focal Length	2.8 mm-12 mm					BLC	Yes
Max. Aperture	F1.6-F3.0					WDR	120 dB
Field of View	H: 94.9°–30.1°; V: 51°–17.1°; D: 112.3°–34.6°					HLC	Yes
Optical Zoom	4×					White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Focus Control	Auto; semi-a	auto; manual				Gain Control	Auto; manual; gain prio
Close Focus Distance	1.5 m (4.92 f	ft)				Noise Reduction	2D NR; 3D NR
Iris Control	Fixed					Motion Detection	Yes
DORI Distance	Detect	Observe	Recognize	Identify		Region of Interest (RoI)	Yes
	171 m (561.02 ft)	67 m (219.82 ft)	34 m (111.55 ft)	17 m (55.77 ft)		Image Stabilization	Electronic
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°
Preset Speed		Tilt: 0.1°/s-60°/s				S/N Ratio	≥ 55 dB
Preset	300	Pan: 100°/s; Tilt: 60°/s				Audio	
Tour		resets per tou	ır)			Audio Compression	G.711a; G.711Mu; G.726;
Pattern		resets per tou	,,			Network	MPEG2-Layer2; G722.1; PCM
Scan	5					Network Port	RJ-45 (10/100 Base-T)
Power-off Memory	5 Yes					Wi-Fi	Yes
Idle Motion	Pattern; Preset; Scan; Tour					Wi-Fi Standard	IEEE802.11b; IEEE802.11g; IEEE802.11n
PTZ Protocol	DH-SD4					Wi-Fi Frequency Range	2.4 GHz
Intelligence						Wi-Fi Transmission Rate	75 Mbps
	Tripwire; intrusion; crossing fence detection; loitering					Max Transmission Power	` ≤20 dBm@2400–2483.5 MHz
IVS (Perimeter Protection) detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification							

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		
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				
4MP WizSense PTZ Camera	DH-SD29404DB-GNY-W	4MP 4x IR WizSense Network PTZ Camera				
	SD29404DB-GNY-W	4MP 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

Optional:







DC 12 V/2A Power Adapter

TF-P100 MicroSD Memory Card

PFA103 + PFB300S Mount Adapter







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])

