

DH-SD49216DB-HNY

2MP 16x Starlight IR 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

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day.

Functions

Starlight Technology

For challenging low-light conditions, Dahua's Starlight Ultra-low Light Technology offers the best in light sensitivity, capturing color in vivid detail, even in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

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%.

- 1/2.8" 2Megapixel STARVIS™ CMOS.
- 16× optical zoom.
- Starlight technology.
- · Max. 25/30 fps@1080p.
- IR distance up to 100 m.
- · H.265 encoding.
- · Perimeter protection.
- Face Detection. Up to 8 faces captured at the same time.











Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets to improve alarm accuracy.

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

SMD

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.

Technical Specification						Face Detection	Support face detection; capturing pictures; face enhancement
Camera						SMD	YES
Image Sensor	1/2.8" CMOS					Video	
Pixel	2 MP					Video Compression	H.264H; H.264B; Smart H.265+; H.265; MJPEG (Sub
Max. Resolution	1920 (H) × 1080 (V)					·	Stream 1); Smart H.264+; H.264M
ROM	128 MB					Streaming Capability	3 streams
RAM	256 MB					Resolution	1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Electronic Shutter Speed	1/1 s-1/30,000 s						Main stream: 1080p/960p/720p (1–25/30 fps)
Scanning System	Progressive					Video Frame Rate	Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/960p/720p (1–25/30 fps)
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)					Bit Rate Control Video Bit Rate	CBR; VBR H.264: 1792 kbps-8192 kbps
Illumination Distance	100 m (328.08 ft) (IR)					Video bit nate	H.265: 512 kbps-5632 kbps
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR					Day/Night	Auto (ICR); Color; B/W
Illuminator Number	3 (IR)					BLC	Yes
Lens	- (4					WDR	120 dB
Focal Length	5.0 mm-80.0 mm					HLC	Yes
Max. Aperture	F1.6					White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
Field of View	H: 53.9°–4.6°; V: 30.3°–2.6°; D: 60°–5.3°					Gain Control	Auto; manual
Optical Zoom	16×					Noise Reduction	2D NR; 3D NR
Focus Control	Auto; semi-auto; manual					Motion Detection	Yes
Close Focus Distance	0.1 m-2 m (0.33 ft-6.56 ft)					Region of Interest (RoI)	Yes
Iris Control	Fixed					Image Stabilization	Electronic (EIS)
	Detect	Observe	Recognize	Identify		Defog	Electronic
DORI Distance	1,131 m	452 m	226 m	113 m		Digital Zoom	16×
	(3,710.63 ft)	(1,482.94 ft)	(741.47 ft)	(370.73 ft)		Image Rotation	180°
PTZ						Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180°					S/N Ratio	≥55 dB
Manual Control Speed	Pan: 0.1°/s–80°/s Tilt: 0.1°/s–80°/s					Audio	
Preset Speed	Pan: 80°/s; Tilt: 80°/s					Audio Compression	G.711a; G.711Mu; G.722.1; G.726; MPEG2-Layer2; G.729
Preset	300					Network	
Tour	8 (up to 32 presets per tour)					Network Port	RJ-45 (10/100 Base-T)
Pattern	5					Network Protocol	TCP; FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; IP Filter; SMB; HTTP; SSL; DHCP; SMTP; SNMP v1/v2c/v3 (MIB-2); QoS; RTSP; ARP
Scan	5						
Power-off Memory	Yes					Interoperability	CGI; Dahua SDK; API; SDK; ONVIF (Profile S&G&T)
Idle Motion	Pattern; Preset; Tour					Streaming Method	Unicast; Multicast
PTZ Protocol	DH-SD Pelco-P/D (auto recognition)					User/Host	20 (total bandwidth: 64 M)
Intelligence						Storage	FTP; Micro SD card (512 GB); NAS
IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification					Browser	IE 7 and later versions Chrome Firefox Safari

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Management Software	DSS; DMSS; ConfigTool; NVR; Smart PSS; IVSS				
Mobile Client	iPhone; iPad; iOS; Android				
Certification					
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014				
Port					
Audio Input	1 channel (LINE IN, bare wire)				
Audio Output	1 channel (LINE OUT, bare wire)				
Alarm I/O	2/1				
Audio I/O	1/1				
Alarm Linkage	Capture; preset; tour; pattern; recording; alarm digital input; audio; send email				
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, 3 A (± 10%) PoE (802.3at)				
Power Consumption	Basic: 12 W Max.: 20 W (IR light)				
Environment					
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)				
Operating Humidity	≤95%				
Protection	IP66; TVS 6000 V lightning proof; surge protection; voltage transient protection				
Structure					
Product Dimensions	270.4 mm × Φ160.0 mm (10.65" × Φ6.30")				
Net Weight	2.4 kg (5.29 lb)				

3.9 kg (8.60 lb)

Gross Weight

Ordering Information						
Туре	Part Number	Description				
2M Camera	DH-SD49216DB-HNY	2MP 16x Starlight IR Network PTZ Camera				
	SD49216DB-HNY	2MP 16x Starlight IR Network PTZ Camera				
	PFB305W	Wall Mount Bracket				
	DC12V/3A	Power Adapter				
	PFA120	Mount Adapter				
	PFA111	Mount Adapter				
Accessories	PFB300C	Ceiling Mount Bracket				
	PFB301C	Ceiling Mount Bracket				
	PFA151	Corner Mount Bracket				
	PFB303S	Parapet Mount Bracket				
	PFB301S-E	Plane Mount Bracket				
	PFA150	Pole Mount Bracket				

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DC12V/3A Power Adapter



PFA120 Mount Adapter



PFA111 Mount Adapter



PFB300C Ceiling Mount Bracket



PFB301C Ceiling Mount Bracket



PFA151 Corner mount Bracket



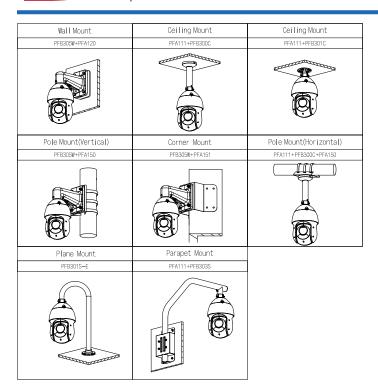
PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



PFA150 Pole Mount Bracket



Dimensions (mm[inch])

