

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.

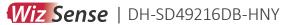
PFA Technology

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.

Intelligence Inte
Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification 1920 (H) × 1080 (V) ANAM 128 MB SMD Yes Video Video Video Video Video Compression H.264H; H.264H; H.264H; H.264H; H.265H; H.265; MIPEG (Substream); Smart H.264+; H.265H; H.265; MIPEG (Substream); Smart H.264+; H.264H; H.
No. Perimeter Protection
Face Detection Support face detection; capturing pictures; face enhancement
SMD Yes
Video Video Compression Video Compression
Video Compression Video Compression Video Compression H.264H; H.264B; Smart H.265+; H.265; MJPEG (Sub Stream); Smart H.264+; H.264M
Streaming System
Steaming Capability 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); DI (704 × 576/704 × 480); CIF (352 × 288/352 × 240) Wain stream: 1080p/960p/720p (1-25/30 fps) Sub stream: 2: 1080p/960p/720p (1-25/30 fps) Sub stream: 2
Video Frame Rate Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/960p/720p (1–25/30 fps) Lens Bit Rate Control CBR; VBR Focal Length 5.0 mm–80.0 mm Video Bit Rate H.264: 1792 kbps–8192 kbps H.265: 512 kbps–5632 kbps Max. Aperture F1.6 Day/Night Auto (ICR); Color; B/W Field of View H: 53.9°–4.6°; V: 30.3°–2.6°; D: 60°–5.3° BLC Yes
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Optical Zoom 16× WDR 120 dB
Focus Control Auto; semi-auto; manual HLC Yes
Close Focus Distance 0.1 m-2 m (0.33 ft-6.56 ft) White Balance Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
ris Control Fixed Gain Control Auto; manual
Detect Observe Recognize Identify Noise Reduction 2D NR; 3D NR
1,131 m 452 m 226 m 113 m (3,710.63 ft) (1,482.94 ft) (741.47 ft) (370.73 ft) Motion Detection Yes
*DORI Distance *DORI (Detect, Observe, Recognize, Identify) is a Region of Interest (RoI) Yes standard system (EN-62676-4) for defining the ability
of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this
table do not reflect intelligent function distances. For intelligent function distances, refer to installation and
commissioning manual/project design tool. Digital Zoom 16×
Image Rotation 180°
Pan: 0° to 360° endless Tilt: -15° to +90°, auto flip 180° Privacy Masking Up to 24 areas can be set, with up to 8 areas in the same view
Manual Control Speed Pan: 0.1°/s−80°/s Tilt: 0.1°/s−80°/s S/N Ratio ≥55 dB
Preset Speed Pan: 80°/s; Tilt: 80°/s Audio
Preset 300 Audio Compression G.711a; G.711Mu; G.722.1; G.726; MPEG2-Layer2; G.729
Four 8 (up to 32 presets per tour) Network
Pattern 5 Network Port RJ-45 (10/100 Base-T)
TCP; FTP; RTMP; IPV6; Bonjour; IPV4; DNS; RTCP; PPP0E;
Power-off Memory Yes Network Protocol Network Protocol 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
dle Motion Pattern; Preset; Tour Interoperability CGI; Dahua SDK; API; SDK; ONVIF (Profile S&G&T)



Streaming Method	Unicast; Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	FTP; Micro SD card (512 GB); NAS
Browser	IE 7 and later versions Chrome Firefox Safari
Management Software	DSS Pro
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)
Gross Weight	3.9 kg (8.60 lb)

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		
Accessories	PFB305W	Wall Mount Bracket		
	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		

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

	I	
Wall Mount	Ceiling Mount	Ceiling Mount
PFB305W+PFA120	PFA111+PFB300C	PFA111+PFB301C
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)
PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB300C+PFA150
Plane Mount	Parapet Mount	
PFB301S-E	PFA111+PFB303S	

Dimensions (mm[inch])

