

DH-SD49225GB-HNR

2MP 25x Starlight IR Network PTZ Camera



• 1/2.8" STARVIS™ CMOS.

- 25x optical zoom.
- Starlight technology.
- Max. 25/30fps@2M.
- IR distance up to 100 m.
- Perimeter protection.
- Face detection.
- Quick Pick.
- SMD 4.0.
- IP66.

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

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

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

Protection (IP66, TVS 6000 V)

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

Perimeter Protection

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



Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

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, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

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Technical Specification

Camera

Calliera				
Image Sensor	1/2.8" CMOS			
Pixel	2 MP			
Max. Resolution	1920 (H) × 1080 (V)			
ROM	4 GB			
RAM	1 GB			
Electronic Shutter Speed	1/1 s-1/30,000 s			
Scanning System	Progressive			
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux@F1.6 (IR light on)			
Illumination Distance	100 m (328.08 ft) (IR)			
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off			
Illuminator Number	4 (IR)			
Lens				
Focal Length	4.8 mm-120	4.8 mm–120 mm		
Max. Aperture	F1.6-F3.5	F1.6-F3.5		
Field of View	H: 58.5°–2.8°	H: 58.5°–2.8°; V: 33.2°–1.5°; D: 67.5°–3.2°		
Optical Zoom	25×			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	0.1 m–1.5 m (0.33 ft–4.92 ft)			
Iris Control	Auto			
DORI Distance	Detect	Observe	Recognize	Identify
	1613 m (5291.99 ft)	646 m (2119.42 ft)	323 m (1059.71 ft)	161 m (528.22 ft)

PTZ

Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180°
Manual Control Speed	Pan: 0.1°–200°/s Tilt: 0.1°–120°/s
Preset Speed	Pan: 240°/s Tilt: 200°/s
Preset	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off Memory	Yes
Idle Motion	Pattern; Preset; Scan; Tour
PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)

Intelligence Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; IVS (Perimeter Protection) parking detection; people gathering; Vehicle/Human Alarm Classification Supports face detection, optimization, tracking, capturing pictures, uploading high-quality face snapshots, and face enhancement; Supports attributes extraction. 6 attributes and 8 expressions: Gender, age, glasses, expressions (angry, sad, hate, **Face Detection** scary, surprise, calm, happy and confused), mask, mustache; Supports face cutout: Face, one-inch photo. Capturing strategies include real-time capturing, optimization, and quality first SMD Yes Quick Pick Yes Video H.264H; H.264B; Smart H.265+; H.264; H.265; Video Compression MJPEG(Sub Stream); Smart H.264+ Streaming Capability 3 streams 1080p (1920 × 1080); 1.3M (1280 × 960);720p (1280 Resolution × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240) Main stream: 1080p/1.3M/720p @(1-25/30 fps) Video Frame Rate Sub stream 1: D1/CIF@ (1-25/30 fps) Sub stream 2: 1080p/1.3M/720p @(1-25/30 fps) Bit Rate Control CBR/VBR H264: 64–10,496 Kbps Video Bit Rate H265: 25-6,400 Kbps Day/Night Auto (ICR)/Color/B/W BLC Yes WDR Yes HIC Yes Auto; indoor; outdoor; ATW; manual; sodium lamp; White Balance natural light; street lamp Gain Control Auto; manual 2D NR; 3D NR Noise Reduction **Motion Detection** Yes Region of Interest (Rol) Yes Image Stabilization Electronic (EIS) Defog Electronic **Digital Zoom** 16× Image Rotation 180° Up to 24 areas can be set, with up to 8 areas in the **Privacy Masking** same view S/N Ratio ≥ 55 dB Audio PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; Audio Compression

G722.1; G729; G723

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Network

Network		
Network Port	1 × RJ-45 (10/100 Base-T)	
Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP	
Interoperability	RTMP; 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 iOS 10 and later versions	
Management Software	DSS; DMSS	
Mobile Client	iOS; Android	
Certification		
Certifications	CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035 CE-LVD: EN 62368-1 FCC: 47 CFR FCC Part15, Subpart B, NSI C63.4 UL: UL62368-1	
Port		
Audio Input	1 channel (LINE IN, bare wire)	
Audio Output	1 channel (LINE OUT,bare wire)	
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital input	
Alarm Event	Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection	
Alarm I/O	2/1	
Audio I/O	1/1	
Power		
Power Supply	12 VDC/3A±25% PoE (802.3at)	
Power Consumption	Basic: 9 W Max.: 20 W (Illuminator + alarm + PTZ)	
Environment		
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)	
Operating Humidity	≤ 95%	
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)	
Storage Humidity	≤ 95%	
Protection	IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection	
Structure		
Product Dimensions	270.4 mm × Φ160 mm (10.65" × Φ6.30")	
Net Weight	2.4 kg (5.29 lb)	
Gross Weight	3.9 kg (8.60 lb)	

Ordering Information				
Туре	Model	Description		
2MP Camera	DH-SD49225GB-HNR	2MP 25x Starlight IR Network PTZ Camera		
	SD49225GB-HNR	2MP 25x Starlight IR Network PTZ Camera		
Accessories	PFB305W	Wall Mount Bracket		
	DC 12 V/3A	Power Adapter		
	PFA120	Junction Box		
	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:



DC 12 V/3A

Power Adapter

PFB300C

Ceiling Mount

Bracket

PFB303S

Bracket

www.dahuasecurity.com



PFA120

Junction Box

A CER

PFB301C

Ceiling Mount

Bracket



PFA111 Mount Adapter



PFA151 Corner Mount Bracket



PFA150 Pole Mount Bracket

PFB301S-E Plane Mount Bracket



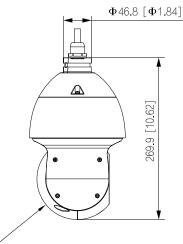


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Wall Mount	Ceiling Mount	Ceiling Mount
PFB305W+PFA120	PFA111+PFB300C	PFA111+PFB301C
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)
PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB300C+PFA150
Plane Mount	Parapet Mount	
PFB301S-E	PFA111+PFB303S	

Dimensions (mm[inch])





Φ135.0 [Φ5.31]-



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