



DH-SD4D425MB-HNR

4MP 25 Starlight Smart Dual Illumination Network PTZ Camera





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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.

Series Overview

With its powerful optical zoom and precise pan-and-tilt capabilities, the PTZ camera offers a comprehensive solution for long-distance outdoor video surveillance. Its smart dual light and AI-ISP technology ensure that images are clear and vibrant both at night and in low-light conditions. This advanced combination significantly improves nighttime surveillance, making it easier to capture critical details that traditional night vision systems might miss.

Functions

Face Detection

Supports 6 attributes and 8 expressions: Gender, age, glasses, face mask, beard and expressions (anger, sadness, disgust, fear, surprise, calm, happiness, and confusion). It also supports face cutout settings: Face, and single inch photo. Three snapshot methods are also featured: Real-time snapshot, priority snapshot, and quality priority.

IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

- 1/2.8" 4Megapixel STARVISTM CMOS
- · 25× optical zoom
- · Starlight technology
- · Max. 25/30 fps@4M
- · IR distance up to 100m
- · Warm light distance up to 50 m
- · Perimeter protection
- · Face detection
- · SMD 4.0
- · IP66













Auto Tracking

This feature controls the pan, tilt and zoom actions of the camera to automatically track an object in motion, to keep it in view of the camera. Tracking can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

Protection (IP66, TVS 6000 V)

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

SMD4.0

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.

Technical Specificatio	n						Scan	5
Camera							Power-off Memory	Yes
Image Sensor	1/2.8" CMOS						Idle Motion	Preset;Pattern;Tour;Scan
Pixel	4 MP						Intelligence	
Max. Resolution	2560 (H) × 1440 (V)					IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm	
ROM	4 GB							
RAM	1 GB							classification; linkage tracking Supports face detection, optimization, capturing
Electronic Shutter Speed	1 s-1/30,000 s							pictures, uploading high-quality face snapshots and
Scanning System	Progressive						enhancing face images. Attribute Extraction is also supported, where 6 attributes and 8 expressions can	
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE); 0 lux (illuminator on) 100 m (328.08 ft) (IR);						Face Detection	be detected. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group
	50 m (164.04 ft) (Warm light)						Consult Torolling	of snapshots.
Illuminator On/Off Control		; Manual; Aı					Smart Tracking	AutoTracking 3.0
Illuminator Number	2 (IR); 2 (W	/arm light);	2 (Dual-core	e light)			SMD	SMD 4.0
Lens							AcuPick	Uses deep learning algorithms and works with backend devices to accurately match targets, such as people and
Focal Length	5 mm-125	mm					Acut lek	motor vehicles, and search through live and recorded videos to quickly locate targets
Max. Aperture	F1.6–F3.6					Auto Patrol	It triggers the IVS rule when a target is detected and makes the camera link with the PTZ to rotate to the position of the target and patrol based on its presets	
Field of View	H:54.1°-3.4°; V: 31.4°-1.9°; D: 61.1°-3.9°							
Optical Zoom	25x						Video	
Focus Control	Auto; semi-auto; manual						Video Compression	Smart H.265+;H.265;Smart
Close Focus Distance		m (0.33 ft-:	1.64 ft)				video compression	H.264+;H.264B;H.264M;H.264H;MJPEG(Sub Stream 1)
Iris Control	Auto	Auto					Streaming Capability	3 streams
DORI Distance	Lens 5 mm–	2,500.0 m	Observe 1,000.0 m	Recognize	250.0 m		Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480);CIF (352 × 288/352 × 240)
	125 mm (328.08 (131.23 (65.62 (32.8 ft) ft)				y) is		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: 1080p/1.3M/720p@(1–25/30 fps)
		d system (E [,] of a perso) for definir :he video	ng		Bit Rate Control	CBR/VBR
	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						Video Bit Rate	H264: 96 kbps–11,776 kbps H265: 38 kbps–7,168 kbps
							Day/Night	Auto (ICR)/Color/B/W
and commissioning manual/project design tool.					tool.		BLC	Yes
PTZ							WDR	120 dB
Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: -15° to +90°, auto flip 180°						HLC	Yes
Manual Control Speed	Pan: 0.1°-200°/s; Tilt: 0.1°-120°/s						White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp
Preset Speed	Pan: 0.1°–240°/s; Tilt: 0.1°–200°/s						Gain Control	Auto; manual; Gain priority
Preset	300						Noise Reduction	2D NR; 3D NR
Tour	8						Motion Detection	Yes
Pattern	5						Region of Interest (RoI)	Yes

Image Stabilization	Electronic Image Stabilization (EIS)		
Defog	Electronic		
Digital Zoom	16×		
Image Rotation	180°		
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view		
S/N Ratio	≥55 dB		
Audio			
Audio Compression	PCM, G.711A, G.711Mu, G.726, MPEG2-Layer2, G.722.1, G.729, G.723		
Network			
Network Port	1 × RJ-45 (10/100 Base-T)		
Network Protocol	HTTP;HTTPS;TCP/ IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;IPv6;802. 1x;SSL;QoS;FTP;UPnP;ICMP;SNMP;IGMP;ARP;RTCP;RTP; PPPOE;RTMP;Bonjour;SMB;NFS		
Interoperability	ONVIF (Profile S & Profile G & Profile T);CGI;SDK		
Streaming Method	Unicast/Multicast		
User/Host	20 (total bandwidth: 64 M)		
Storage	Micro SD card (512 GB); FTP/SFTP; NAS		
Browser	web5.0: IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions		
Management Software	DMSS;DSS Pro		
Mobile Client	iOS;Android		
Certification			
Certifications	CE: EN55032/EN55024/EN50130-4		
Port			
Audio Input	1 channel (LINE IN, bare wire)		
Audio Output	1 channel (LINE OUT,bare wire)		
Alarm Input	2		
Alarm Output	1 channel		
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output		
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, 3 A ± 10% PoE (802.3at)		
Power Consumption	DC: Basic: 8 W; Max: 20 W (illuminator + PTZ) PoE:		

	Basic: 11 W; Max: 23 W (Illuminator+PTZ)
Power Adapter	Optional
Environment	
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating 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				
Network PTZ Camera	DH-SD4D425MB-HNR	4MP 25 Starlight Smart Dual Illumination Network PTZ Camera				
	PFB305W	Wall Mount Bracket				
	DH-PFB300C	Ceiling Mount Bracket				
	PFA111	Mount Adapter				
	DH-PFB301S-E	Plane Mount Bracket				
	DH-PFA150	Pole Mount Bracket				
Accessories	DH-PFA151	Corner Mount Bracket				
	DH-PFA126	Water-proof Junction Box				
	DH-PFB303S	Parapet Mount Bracket				
	DH-PFA120	Junction Box				
	DC12V/3A	Power Adapter				

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DH-PFA120 Junction Box



DH-PFA126 Water-proof Junction Box



DH-PFA150 Pole Mount Bracket



DH-PFA151 Corner Mount Bracket



DH-PFB300C Ceiling Mount Bracket



DH-PFB301S-E Plane Mount Bracket



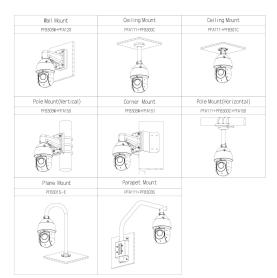
DH-PFB303S Parapet Mount Bracket



PFA111 Mount Adapter



DC12V/3A Power Adapter



Dimensions (mm[inch])

