



DH-SD4D225DB-HNY

2MP 25x Smart Dual Light WizSense Network PTZ Camera



Wiz Sense

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 provides an all-in-one solution for long-distance outdoor video surveillance. The integration of smart dual light and Starlight technology makes this camera an excellent solution for monitoring in dark and low-light environments. Additionally, the series includes a day-and-night mechanical IR cut filter, ensuring high-quality images are produced across varying lighting conditions throughout the day.

Functions

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

- 1/2.8" 2Megapixel STARVIS[™] CMOS.
- · 25× optical zoom.
- · Starlight technology.
- · IR distance up to 100 m.
- · Warm light distance up to 50 m.
- · Max. 25/30 fps@1080p.
- · H.265 encoding.
- · Perimeter protection.
- · Face Detection, Up to 8 faces captured simultaneously.









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.

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.

Protection (IP67, TVS 6000 V)

IP67, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

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.

Pattern Scan

Technical Specification						Power-off Memory	Yes	
Camera							Idle Motion	Preset;Pattern;Tour;Sc
Image Sensor	Image Sensor		1/2.8" CMOS				PTZ Protocol	DH-SD
Pixel		2 MP				Pelco-P/D (Auto recognition)		
Max. Resolution		1920 (H) × 1080 (V)					Intelligence	Trinwire intrusion
ROM		256 MB					IVS (Perimeter Protection)	Tripwire; intrusion; cro
RAM		512 MB						parking detection; people gathering; vi alarm classification
Electronic Shutter Speed		1/1 s-1/30,000 s					Face Detection	Supports face detection
Scanning System		Progressive						enhancement
NA: III-			Color: 0.005 lux@F1.6				Smart Tracking	Auto Tracking 1.0
Min. Illumina	non	B/W: 0.0005 lux@F1.6 0 lux (IR light on)					SMD	SMD 3.0
Illumination Distance		100 m (328.08 ft) (IR); 50 m (164.04 ft) (warm light)					Auto Patrol	It triggers the IVS rul makes the camera lin position of the targe
Illuminator O	n/Off Control	Zoom Prio; Manual; Auto; Off					Video	
Illuminator Number		2 (dual light Fusion) 2 (IR) 2 (warm light)				Video Compression	Smart H.265+;H.265; H.264+;H.264;H.264	
Lens	Lens						Streaming Capability	3 streams
Focal Length		4.8 mm–120 mm					Resolution	1080p (1920 × 1080) 720); D1 (704 × 576)
Max. Aperture		F1.6-F3.5					(352 × 288/352 × 24	
Field of View Optical Zoom		H: 58.5°–2.8°; V: 33.2°–1.5°; D: 67.5°–3.2° 25×					Video Frame Rate	Main stream: 1080p Sub stream 1: D1/V6 Sub stream 2: 1080p
Focus Control		Auto; semi-auto; manual					Bit Rate Control	CBR/VBR
Close Focus D	istance	0.1 m-1.5 m (0.33 ft-4.92 ft)				Video Bit Rate	H.264: 1792 kbps-8	
Iris Control		auto					Video bit Nate	H.265: 512 kbps-56
	Lens	Detect	Observe	Recognize	Identify		Day/Night	Auto (ICR)/Color/B/
	W	66.2 m	26.5 m	13.2 m	6.6 m		BLC	Yes
		(217.21 ft)	(86.88 ft)	(43.44 ft)	(21.72 ft)		WDR	120 dB
	Т	1655.2 m (5430.29	662.1 m (2172.12	331.0 m (1086.06 ft)	165.5 m (543.03 ft)		HLC	Yes
DORI Distance	*DORI (Detor	ft)	ft)				White Balance	Auto; indoor; outdoo natural light; street la
	(EN-62676-4)	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the					Gain Control	Auto; manual
		nguish persons in this table do					Noise Reduction	2D NR; 3D NR
	The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.					Motion Detection	Yes	
DT7	and Commiss	ioning manual,	, project desig	ii tool.			Region of Interest (RoI)	Yes
PTZ		Pan: 0° +a 200	N° andlass				Image Stabilization	Electronic Image Stal
Pan/Tilt Rang	e	Pan: 0° to 360° endless Tilt: -15° to +90°, auto flip 180°					Defog	Electronic
Manual Conti	Manual Control Speed		Pan: 0.1°/s-80°/s				Digital Zoom	16×
			Tilt: 0.1°/s-80°/s				Image Rotation	180°
Preset Speed		Pan: 80°/s; Tilt: 80°/s					Privacy Masking	Up to 24 areas can be
Preset		300						same view
Tour		8 (up to 32 presets per tour)					S/N Ratio	≥ 55 dB

Audio				
Audio Compression	G.711a; G.711Mu; G.722.1; G.726; MPEG2-Layer2; G.729			
Network				
Network Port	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;SNMPv1/v2c/ v3(MIB-2);IGMP;ARP;RTCP;RTP;PPPoE;IP Filter;RTMP;Bonjour;TCP;SMB;NFS			
Interoperability	ONVIF (Profile S & Profile G & Profile T);CGI;SDK			
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;DMSS			
Mobile Client	iOS;Android;iPhone;iPad			
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; 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			
Alarm I/O	2/1			
Audio I/O	1/1			
Power				
Power Supply	12 VDC/3 A ± 10% PoE+ (802.3at)			
Power Consumption	Basic: 12 W Max.: 20 W (PTZ operation+WDR+Warm light on)			
Power Adapter	Optional			
Environment				
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Operating Humidity	≤ 95%			
Protection	IP67;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	Model	Description					
Network PTZ Camera	DH-SD4D225DB-HNY	2MP 25x Smart Dual Light WizSense Network PTZ Camera					
	PFB305W	Wall Mount Bracket					
	DH-PFB301S-E	Plane Mount Bracket					
	DH-PFB300C	Ceiling Mount Bracket					
	PFA111	Mount Adapter					
Accessories	DH-PFA150	Pole Mount Bracket					
	DH-PFA151	Corner Mount Bracket					
	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-PFA150 Pole Mount Bracket



DH-PFA151 Corner Mount Bracket



DH-PFB300C Ceiling Mount Bracket



DH-PFB301S-E Plane Mount Bracket



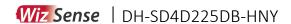
DH-PFB303S Parapet Mount Bracket



PFA111 Mount Adapter



DC12V/3A Power Adapter



Dimensions (mm[inch])

