

DH-SD6E425MB-HNR-A-PV1

4MP 25x Smart Dual Illumination Active Deterrence Network PTZ Camera



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.

Series Overview

The Three-in-One Camera (TiOC) solution combines 24/7 monitoring, active deterrence and real-time alarms with artificial intelligence into one smart, innovative solution. TiOC PTZ cameras adopt auto-tracking 3.0 technology, greatly improving the monitoring scope of key targets. For distributors and installers, it not only saves time, but also reduces cost.

Functions

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.

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.

- 1/2.8" 4Megapixel STARVISTM CMOS
- 25x optical zoom
- · Max. 25/30fps@4M
- · IR distance up to 250m
- · Warm light distance up to 100m
- · Sound and light alarm (red and blue lights)
- Auto tracking 3.0
- · Perimeter protection
- · Face detection
- Acupick
- · SMD 4.0
- IP67
- · IK10













IVS

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

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.

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.

AcuPick

This industry-leading search technology effectively utilizes both frontend and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

Idle Motion

Preset;Pattern;Tour;Scan

Technical Specification							PTZ Protocol	DH-SD	
Camera								Pelco-P/D(Auto recognition)	
Image Sensor		1/2.8" CMOS					Intelligence		
Pixel		4 MP					Supports detection of motor vehicles, non-motor vehicles, faces and human bodies, optimization,		
Max. Resolution		2560 (H) × 1440 (V)					Video Metadata	capturing pictures, and uploading high-quality face snapshots. It extracts attributes from motor vehicles and non-motors, detecting up to 10 attributes for motor vehic and 8 for non-motor vehicles. It also extracts attribut from human faces and bodies, detecting up to 6 attributes for faces, and 8 for bodies.	
ROM		4 GB							
RAM		1 GB							
Electronic Shutter Speed		1s-1/30000s							
Scanning System		Progressive					Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving;		
Min. Illumination		0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					IVS (Perimeter Protection)	parking detection; people gathering; human alarm classification; linkage tracking	
Illumination [Distance	100 m (328.08 ft) (Warm light); 250 m (820.21 ft) (IR)						Supports face detection, optimization, capturing pictures, uploading high-quality face snapshots and enhancing face images. Attribute extraction is also supported, where 6 attributes and 8 expressions can	
Illuminator O	n/Off Control	Zoom Prio; Manual; Auto; Off							
Illuminator Number		6 (Dual light fusion)					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 of snapshots.	
Lens									
Focal Length		5 mm-125 mm							
Max. Aperture		F1.6-F3.6					Smart Tracking	AutoTracking 3.0	
Field of View		H: 51.9°-3.0°; V: 37.9°-2.2°; D: 63.1°-3.7°					SMD	SMD 4.0	
Optical Zoom		25×						Uses deep learning algorithms and works with backe devices to accurately match targets, such as people a motor vehicles, and search through live and recorded	
Focus Control		Auto; Semi-auto; Manual					AcuPick		
Close Focus Distance		0.1 m-0.5 m	(0.33 ft-1.64 ft)					videos to quickly locate targets	
Iris Control	Lens	Auto; Manual; Iris prio Detect Observe Recognize Identify			Auto Patrol	After an IVS event occurs, the PTZ camera immediate initiates automated patrol of predefined key points to quickly cover potential risk areas and detect unknow threats in real time.			
	W	100.0 m (328.08 ft)	39.5 m (129.59 ft)	20.0 m (65.62 ft)	10.0 m (32.81 ft)		Active Deterrence	threats in real time.	
DORI Distance	Т	2500.0 m (8202.10 ft)	987.5 m (3239.83 ft)	500.0 m (1640.42 ft)	250.0 m (820.21 ft)		Light Warning	Red and blue warning light Flash duration: 5 s-30 s Flash frequency: high, medium, low	
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area.						Sound Warning	Built in 11 voice alarm contents, supporting custom import of 10 voice contents; Sound: 0-100 adjustable. The playback frequency can be adjusted from 1 to 10 times; (requires external speaker for use)	
	distances. For	The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation					Video		
and commiss		ioning manual/project design tool.					Video Compression	Smart H.265+;H.265;Smart H.264+;H.264;H.264B;H.264H;MJPEG(Sub Stream 1)	
Pan/Tilt Rang	e	Pan: 0° to 360	Pan: 0° to 360° endless; Tilt: –20° to +90°, auto flip 180°				Streaming Capability	3 streams	
Manual Control Speed		Pan: 0°/s–260°/s; Tilt: 0°/s–140°/s					Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (70 576/704 × 480); VGA (640 × 480); CIF (352 × 288/3! × 240)	
Preset Speed		Pan: 300°/s; Tilt:200°/s							
Preset		300					Main stream: 4M/1080p/1.3M/720p@(1–25/30 fps		
Tour		8					Video Frame Rate	Sub stream 1: D1/VGA/CIF@(1–25/30 fps) Sub stream 2: 1080p/1.3M/720p/@(1–25/30 fps)	
Pattern		5					Bit Rate Control	CBR/VBR	
Scan		5						H264: 96 kbps–15104 kbps	
Power-off Memory		Yes					Video Bit Rate	H265: 38 kbps–9216 kbps	

Day/Night	Auto (ICR)/Color/B/W		
BLC	Yes		
WDR	120 dB		
HLC	Yes		
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp		
Gain Control	Auto; manual; gain prio		
Noise Reduction	2D NR; 3D NR		
Motion Detection	Yes		
Region of Interest (RoI)	Yes		
Image Stabilization	Electronic Image Stabilization (EIS)		
Defog	Electronic		
Digital Zoom	16x		
Image Rotation	180°		
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view Multiple colors and mosaic available		
S/N Ratio	≥55 dB		
Audio			
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1 G729; G723		
Built-in Speaker	Yes		
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;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	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions		
Management Software	DMSS;DSS Pro		
Mobile Client	iOS;Android		
Certification			
Certifications	CE:EN55035;EN IEC61000-3-2;EN55032;EN60950;EN62368-1		
Port			
RS-485	1 (Bit range: 1200 bps–9600 bps)		
Audio Input	1 channel (LINE IN, bare wire)		
Audio Output	1 channel (LINE OUT,bare wire;built-in speaker (mutually exclusive))		

Alarm Input	2 (on-off value input: 0–5 VDC)				
Alarm Output	1 channel				
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output; audio				
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection				
Power					
Power Supply	24 VDC, 2.5 A ± 25% PoE+ (802.3at)				
Power Consumption	Basic: 13 W Max. (WDR + IR on + PTZ operation + Alarm): 19 W (24 VDC)				
Power Adapter	Included				
Environment					
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)				
Operating Humidity	≤95%				
Protection	IP67;IK10;TVS 6000 V lightning proof; surge protection; voltage transient protection				
Structure					
Product Dimensions	208 mm × 202 mm × 325 mm (8.19" × 7.95" × 12.8") (L × W × H)				
Net Weight	4.45 kg (9.81 lb)				
Gross Weight	6.62 kg (14.59 lb)				

Ordering Information							
Туре	Model	Description					
Network PTZ Camera	DH-SD6E425MB-HNR-A- PV1	4MP 25x Smart Dual Illumination Active Deterrence Network PTZ Camera					
	PFB305W	Wall Mount Bracket					
	DC24V/2.5A	Power Adapter					
	DH-PFB301S-E	Plane Mount Bracket					
	DH-PFB300C	Ceiling Mount Bracket					
Accessories	PFA111	Mount Adapter					
	DH-PFA151	Corner Mount Bracket					
	DH-PFA126	Water-proof Junction Box					
	DH-PFA150	Pole Mount Bracket					
	DH-PFB303S	Parapet Mount Bracket					

Accessories

Dimensions (mm[inch])

Included:



PFB305W Wall Mount Bracket



DC24V/2.5A Power Adapter

Optional:



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





