

DH-SD6E432MB-HNR-A-PV1

4MP 32x 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 STARVIS[™] CMOS
- 32x 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.

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Technical S	Specificatio	า			
Camera					
Image Sensor		1/2.8" CMOS			
Pixel		4 MP			
Max. Resolution	on	2560 (H) × 1440 (V)			
ROM		4 GB			
RAM		1 GB			
Electronic Shutter Speed		1s-1/30000s			
Scanning System		Progressive			
Min. Illumination		0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
Illumination Distance		100 m (328.08 ft) (Warm light); 250 m (820.21 ft) (IR)			
Illuminator On/Off Control		Zoom Prio; Manual; Auto; Off			
Illuminator Nu	ımber	6 (Dual light fusion)			
Lens					
Focal Length		4.8 mm–154 mm			
Max. Aperture		F1.6-F4.0			
Field of View		H: 55.8°–2.3°; V: 31.9°–1.3°; D: 63.7°–2.7°			
Optical Zoom		32×			
Focus Control		Auto; Semi-auto; Manual			
Close Focus Distance		0.1 m-1.5 m (0.33 ft-4.92 ft)			
Iris Control		Auto; Manual; Iris prio			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	96.0 m (314.96 ft)	37.9 m (124.41 ft)	19.2 m (62.99 ft)	9.6 m (31.50 ft)
	Т	3080.0 m (10104.99 ft)	1216.6 m (3991.47 ft)	616.0 m (2021.00 ft)	308.0 m (1010.50 ft)
	*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.				

(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.

PTZ

Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: –20° to +90°, auto flip 180°		
Manual Control Speed	Pan: 0°/s-260°/s; Tilt: 0°/s-140°/s		
Preset Speed	Pan: 300°/s; Tilt:200°/s		
Preset	300		
Tour	8		
Pattern	5		
Scan	5		
Power-off Memory	Yes		
Idle Motion	Preset;Pattern;Tour;Scan		

PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)		
Intelligence			
Video Metadata	Supports detection of motor vehicles, non-motor vehicles, faces and human bodies, optimization, capturing pictures, and uploading high-quality face snapshots. It extracts attributes from motor vehicles and non- motors, detecting up to 10 attributes for motor vehicles and 8 for non-motor vehicles. It also extracts attributes from human faces and bodies, detecting up to 6 attributes for faces, and 8 for bodies.		
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification; linkage tracking		
Face Detection	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 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.		
Smart Tracking	AutoTracking 3.0		
SMD	SMD 4.0		
AcuPick	Uses deep learning algorithms and works with backend devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets		
Auto Patrol	After an IVS event occurs, the PTZ camera immediately initiates automated patrol of predefined key points to quickly cover potential risk areas and detect unknown threats in real time.		
Active Deterrence			
Light Warning	Red and blue warning light Flash duration: 5 s–30 s Flash frequency: high, medium, low		
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)		
Video			
Video Compression	Smart H.265+;H.265;Smart H.264+;H.264;H.264B;H.264H;MJPEG(Sub Stream 1)		
Streaming Capability	3 streams		
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)		
Video Frame Rate	Main stream: 4M/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)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H264: 96 kbps-15104 kbps H265: 38 kbps-9216 kbps		

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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: 12 W Max. (WDR + IR on + PTZ operation + Alarm): 20 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)			
	6.62 kg (14.59 lb)			
Gross Weight	6.62 kg (14.59 lb)			

Ordering Information					
Туре	Model	Description			
Network PTZ Camera	DH-SD6E432MB-HNR-A- PV1	4MP 32x Smart Dual Illumination Active Deterrence Network PTZ Camera			
	PFB305W	Wall Mount Bracket			
	DC24V/2.5A	Power Adapter			
	DH-PFB301S-E	Plane Mount Bracket			
	PFA111	Mount Adapter			
Accessories	DH-PFB300C	Ceiling Mount Bracket			
	DH-PFA126	Water-proof Junction Box			
	DH-PFA151	Corner Mount Bracket			
	DH-PFA150	Pole Mount Bracket			
	DH-PFB303S	Parapet Mount Bracket			

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Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DH-PFA126 Water-proof Junction Box



DH-PFB300C Ceiling Mount Bracket



PFA111 Mount Adapter

Wall Mount PFB305W+PFA126

Pole Mount(Vertical)

PER305#+PEA150

Plane Mount

PFB301S-E

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DC24V/2.5A Power Adapter



DH-PFA150 Pole Mount Bracket

DH-PFB301S-E

Plane Mount Bracket

Ceiling Mount

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Corner Mount PFB308H+PFA151

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Parapet Mount

PFA111+PFB303S

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Ceiling Mount PFA111+PFB301C

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Pole Mount(Horizontal)

PFA111+PFB300C+PFA150

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DH-PFA151 Corner Mount Bracket



DH-PFB303S Parapet Mount Bracket

Dimensions (mm[inch])





