

DH-SDT4E425-8P-GB-APV1

8+4MP 25x TiOC Network Panoramic 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.

System Overview

Designed with more lens than the conventional PTZ camera, the X-Spans series camera captures an expansive view, producing wide, vivid images. It has the combined power of the panoramic and detail camera in its structure and is highly cost-effective, greatly reducing the installation cost of security systems. It also leverages its two cameras to perform smart tracking, and has an independent mode that allows you to separately use each camera.

Functions

Starlight Technology

For challenging low-light conditions, Dahua's Starlight Ultra-low Light Technology has exceptional light sensitivity, capturing images in vivid detail, even in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

Smart Codec

With advanced scene-adaptive rate control algorithm, Dahua smart codec technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

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.

- · Overview channel: Outputs 180° wide angle splicing image
- · Detail channel: 1/2.8"4Megapixel STARVIS™ CMOS
- · 25x optical zoom
- · Max. 25/30 fps@8M
- · IR distance up to 100 m
- · Auto tracking 3.0
- · Smart tracking
- · Perimeter protection
- · Active deterrence
- · Smart dual light +













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 Tracking

The panoramic camera links with the detail camera to track targets. When the target enters the panoramic area, the detail camera starts to monitor them and tracks their movement by rotating, zooming and focusing the PTZ camera lens. This allows the camera to produce highly detailed images with the movement of targets for security personnel.

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.

Technical Specification							Manual Control Speed	Pan: 0.1°/s–180°/s;	
Camera								Tilt: 0.1°/s–90°/s Pan: 0.1°/s–180°/s;	
Image Sensor		Overview channel: 1/2.7" CMOS; Detail channel:					Preset Speed	Tilt: 0.1°/s-90°/s	
·		1/2.8" CMOS Overview channel: 8 MP; Detail channel: 4 MP					Preset	300	
Pixel		Overview channel: 4096 (H) × 1860 (V); Detail					Tour	8 (up to 32 presets per tour)	
Max. Resolution		channel: 2560 (H) × 1440 (V)					Pattern	5	
ROM		Overview channel: 4 GB; Detail channel: 4 GB					Scan	5	
RAM		Overview channel: 2 GB; Detail channel: 1 GB					Power-off Memory	Yes	
Electronic Shutter Speed		1 s-1/30,000 s					Idle Motion	Preset; Pattern; Tour; Scan	
Scanning Syste	em	Progressive					Intelligence		
Min. Illumination		Overview channel: 0.005 lux@F1.4 (Color, 30 IRE); 0.0005 lux@F1.4 (B/W, 30 IRE); 0 lux (illuminator on) Detail channel: 0.005 lux@F1.6 (Color, 30 IRE);					IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification; linkage tracking	
		0.0005 lux@F1.6 (B/W, 30 IRE); 0 lux (illuminator on) Overview channel: 30 m (98.43 ft) (IR); 30 m (98.43 ft)					SMD	SMD 4.0	
Illumination D	istance	(white light); Detail channel: 100 m (328.08 ft) (IR); 50 m (131.23 ft) (white light)					Active Deterrence		
Illuminator On/Off Control		Overview channel: Manual; Auto; Off Detail channel: Zoom Prio; Manual; Auto; Off					Light Warning	Red-Blue light warning; Flash duration: 5 s–30 s; Flash frequency: high, medium, low	
Illuminator Number Lens		Overview channel: 2 (IR light); 2 (White light); Detail channel: 2 (IR light); 2 (Warm light)					Sound Warning	Offers 11 sound alarm and 10 custom sound alarms can be imported. Sound can be set from 0%–100%. Play times can be set from 1-10.	
		Overview channel: 2.8 mm; Detail channel: 5 mm–125					Video		
Focal Length		mm					Video Compression	Smart H.265+;H.265;Smart H.264+;H.264B;H.264M;H.	
Max. Aperture	Max. Aperture		Overview channel: F1.4; Detail channel: F1.6-F3.6					264H;MJPEG(Sub Stream 1)	
Field of View		Overview channel: H: 180°; V: 86°; Detail channel: H: 51.9°–3.0°; V: 39.7°–2.2°; D: 63.1°–3.7°					Streaming Capability	3 streams Overview channel: 8M (4096 × 1860); 2M (2048 ×	
Optical Zoom	Optical Zoom		annel: NA; De	tail channel: 2	5×			928); 1080p (1920 × 1080); 720p (1280 × 720); 1024 × 448; D1 (704 × 576/704 × 480); VGA (640 × 480); CIF	
Focus Control Close Focus Distance		Auto; manual; semi-auto Overview channel: 0.6 m (1.97 ft); Detail channel: 0.1					Resolution	(352 × 288/352 × 240); Detail channel: 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×	
Close I ocus B	Staries	m=0.5 m (0.33"=1.64")						480);VGA (640 × 480); CIF (352 × 288/352 × 240)	
Iris Control		Overview channel: NA; Detail channel: Auto; manual; iris prio				Overview channel: Main stream: 4096 × 1860 @(1–25/30 fps)			
	Detect	Detect	Observe	Recognize	Identify			Sub stream 1: 1024 × 448/D1/VGA/CIF @(1–25/30 fps) Sub stream 2: 2048 × 928/1080p/1.3M/720p @ (1–25/30 fps);	
DORI Distance	Overview channel: 2.8 mm	56.0 m (183.72 ft)	22.4 m (73.49 ft)	11.2 m (36.74 ft)	5.6 m (18.37 ft)		Video Frame Rate	(1-25/30 (ps), Detail channel: Main stream: 4M/3M/1080p/1.3M/720p @(1-25/30 fps) Sub stream 1: D1/VGA/CIF @(1-25/30 fps)	
	Detail channel: W	100.0 m (328.08 ft)	40.0 m (131.23 ft)	20.0 m (65.62 ft)	10.0 m (32.81 ft)			Sub stream 1: D1/VGA/CIF @(1–25/30 fps) Sub stream 2: 1080p/1.3M/720p/ @(1–25/30 fps)	
	Detail channel: T	2500.0 m (8202.00 ft)	1000.0 m (3280.80 ft)	500.0 m (1640.40 ft)	250.0 m (820.20 ft)		Bit Rate Control	CBR/VBR	
	*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. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.						Video Bit Rate	Overview channel: H264: 128 kbps–16,384 kbps H265: 51 kbps–13,312 kbps; Detail channel: H264: 96 kbps–16,384 kbps H265: 38 kbps–10,240 kbps	
PTZ							Day/Night	Overview channel: Auto; Color; B/W; Electronic Detail channel: Auto; Color; B/W; Electronic	
Pan/Tilt Range		Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180°					BLC	Yes	
. 0		THE13 TO +30 , AULO HIP 160							

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WDR	Overview channel: DWDR; Detail channel: 120 dB
HLC	Yes
White Balance	Overview channel: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp Detail channel: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Gain Control	Overview channel: Auto; manual; gain prio Detail channel: Auto; manual; gain prio
Noise Reduction	Overview channel: 2D NR; 3D NR Detail channel: Auto: 2D NR; 3D NR
Motion Detection	Yes
Region of Interest (RoI)	Yes
Image Stabilization	Overview channel: NA Detail channel: Electronic Image Stabilization (EIS)
Defog	Overview channel: Electronic Detail channel: Electronic
Digital Zoom	Overview channel: NA; Detail channel: 16×
Image Rotation	Overview channel: NA Detail channel: 180
S/N Ratio	Overview channel: ≥55 dB Detail channel: ≥55 dB
Audio	
Audio Compression	PCM, G.711A, G.711Mu, G.726, MPEG2-Layer2, G.722.1, G.729
Network	
Network Port	RJ-45 (100/1,000 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; NFS
Interoperability	ONVIF (Profile S & Profile G & Profile T);CGI;SDK;P2P
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 52 and later versions; Safari 10 and later versions
Management Software	DMSS; DSS Pro
Mobile Client	iOS; Android
Management Software	DMSS; DSS Pro
Mobile Client	iOS; Android
Certification	
Certifications	CE: EN 50130-4 EN 55032 EN 55035 EN 61000-3-3 EN IEC 61000-3-2 EN 62368-1

Port					
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; warning light				
Alarm Event	Motion/tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection				
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection				
Power					
Power Supply	12 VDC, 3 A ± 10%;PoE (802.3at)				
Power Consumption	Basic: 14 W; Max: 25 W (illuminator + heating glass + Siren and Light Active Deterrence + ICR + PTZ)				
Power Adapter	Optional				
Environment					
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)				
Operating Humidity	≤95%				
Protection	IP66; TVS 6000 V lightning proof; surge protection; voltage transient protection				
Structure					
Product Dimensions	194.2 mm \times 160 mm \times 311 mm (7.65" \times 6.30" \times 12.24") (L \times W \times H)				
Net Weight	3.1 kg (6.83 lb)				

Ordering Information							
		S					
Type	Model	Description					
Network PTZ Camera	DH-SDT4E425-8P-GB- APV1	8+4MP 25x TiOC Network Panoramic PTZ Camera					
	PFB305W	Wall Mount Bracket					
	DC12V/3A	Power Adapter					
	PFA126	Mount Adapter					
	PFA114	Mount Adapter					
Accessories	PFB300C	Ceiling Mount Bracket					
	PFB301C	Ceiling Mount Bracket					
	PFA151	Corner Mount Bracket					
	PFA150	Pole Mount Bracket					
	PFB303S	Parapet Mount Bracket					
	PFB301S-E	Plane Mount Bracket					

4.6 kg (10.14 lb)

Gross Weight

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DC12V/3A Power Adapter



PFA126 Mount Adapter



PFA114 Mount Adapter



PFB300C Ceiling Mount Bracket



PFB301C Ceiling Mount Bracket



PFA151 Corner Mount Bracket



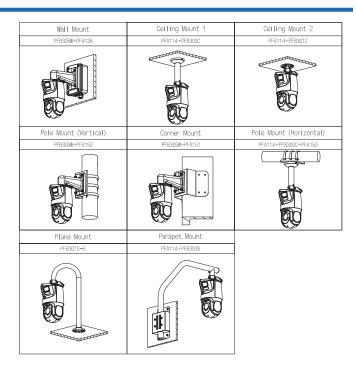
PFA150 Pole Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



Dimensions (mm[inch])

