

# DH-SDT4E425-8P-GB-A-PV1-SL

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 +
- · Anti-corrosion coating













#### **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; Tilt: 0.1°/s–90°/s
Camera					Preset Speed	Pan: 0.1°/s–180°/s;	
Image Sensor		Overview channel: 1/2.7" CMOS; Detail channel: 1/2.8" CMOS			channel:	·	Tilt: 0.1°/s–90°/s
Pixel		Overview channel: 8 MP; Detail channel: 4 MP				Preset	300
		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 System		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)			0 m (98.43 ft)	SMD	SMD 4.0
Illumination Distance		(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		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					Smart H.265+;H.265;Smart H.264+;H.264B;H.264M;H.
Max. Aperture		Overview channel: F1.4; Detail channel: F1.6-F3.6				Video Compression	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
Optical Zoom		Overview channel: NA; Detail channel: 25×				Resolution	Overview channel: 8M (4096 × 1860); 2M (2048 × 928); 1080p (1920 × 1080); 720p (1280 × 720); 1024 × 448; D1 (704 × 576/704 × 480);VGA (640 × 480);CIF (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 × 480);VGA (640 × 480); CIF (352 × 288/352 × 240)
Focus Control		Auto; manual; semi-auto					
Close Focus Distance		Overview channel: 0.6 m (1.97 ft); Detail channel: 0.1 m=0.5 m (0.33"=1.64")					
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); Detail channel: 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)
	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	
	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)		
Distance	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

## Wiz Sense | DH-SDT4E425-8P-GB-A-PV1-SL

·					
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 NEMA 4X				

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						
Туре	Model	Description				
Network PTZ Camera	DH-SDT4E425-8P-GB-A- PV1-SL	8+4MP 25x TiOC Network Panoramic PTZ Camera				
	PFB305WA	Wall Mount Bracket				
	PFA114A	Anti-corrosion Mount Adapter				
Accessories	PFB300CA	Anti-corrosion Wall Mount Bracket				
710003301103	PFA151A	Anti-corrosion Corner Mount Bracket				
	PFA155A	Anti-corrosion Pole mount bracket				
	PFA126A	Anti-corrosion Junction Box				

4.6 kg (10.14 lb)

Gross Weight

## Accessories

## Included:



PFB305WA Wall Mount Bracket

## Optional:



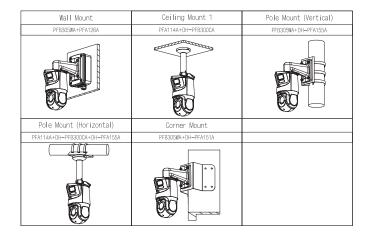
PFA126A Anti-corrosion Junction Box



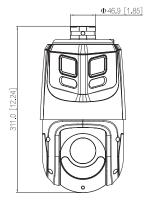
PFA151A Anti-corrosion Corner Mount Bracket



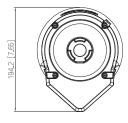
PFA155A Anti-corrosion Pole mount bracket



## Dimensions (mm[inch])









PFB300CA Anti-corrosion Wall Mount Bracket