

# DH-SDT4E425-4F-GB-A-PV1

X-Spans 4MP+4MP 25x TiOC WizSense Network PTZ Camera





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 offers the best in light sensitivity, capturing color 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 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.

- · Panorama: 1/2.8" 4Megapixel F1.0 CMOS.
- · Detail: 1/2.8"4Megapixel STARVIS™ CMOS.
- · 25x optical zoom.
- · Max. 25/30fps@4M.
- · IR distance up to 100 m.
- · Auto tracking 3.0.
- · Smart tracking.
- · Perimeter protection.
- · Active deterrence.
- · Smart dual light +.













#### Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding 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.

## Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

## Smart Dual Light +

Both the panoramic camera and detail camera support smart dual light. In intelligent illumination mode, the channels of both cameras can switch together from one type of image to another. When a target enters the panoramic area, both channels switch from displaying black and white images to color images at the same time. After the target leaves, they both simultaneously switch back to black and white.

Technical Specification		Power-off Memory	Yes
Camera		Idle Motion	Pattern; Preset; Scan; Tour
Image Sensor	Panorama: 1/2.8" CMOS; Detail: 1/2.8" CMOS	Intelligence	
Pixel	Panorama: 4 MP; Detail: 4 MP Panorama: 2560 (H) × 1440 (V);	IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linking the detail camera to track
Max. Resolution	Detail: 2560 (H) × 1440 (V)	Auto Tracking	objects Yes
ROM	Panorama: 4 GB; Detail: 4 GB	SMD	SMD4.0
RAM	Panorama: 1 GB; Detail: 1 GB	Quick Pick	Yes
Electronic Shutter Speed	Panorama: 1/3s-1/100000s; Detail: 1s-1/30000s	Active Deterrence	
Scanning System	Progressive	Light Warning	Red-blue light warning Flash duration: 5 s-30 s
Min. Illumination	Panorama: 0.001 lux@F1.0 (Color, 30 IRE); 0.0005 lux@F1.0 (B/W, 30 IRE); 0 lux (illuminator on); Detail: 0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@	Sound Warning	Flash frequency: high, medium, low  Offers 11 sound alarms and supports importing custom sound alarms.
	F1.6 (B/W, 30 IRE); 0 lux (illuminator on)	Video	
Illumination Distance	Panorama: 30 m (98.43 ft) (IR); 30 m (98.43 ft) (white light); Detail: 100 m (328.08 ft) (IR) 50 m (164.04 ft) (white	Video Compression	H.265; H.264B; H.264; H.264H; MJPEG(Sub Stream 1); smart H.265+; smart H.264+
	light)	Streaming Capability	3 streams
Illuminator On/Off Control	Panorama: Auto; Manual; Off; Detail: Zoom Prio; Auto; Manual; Off		Panorama: 4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 ×
Illuminator Number	Panorama: 2 (IR); 2 (white light); Detail: 2 (IR); 2 (dual light Fusion)	(1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240) Detail:	1296); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 ×288/352 × 240)
Lens			Detail: 4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 ×
Focal Length	Panorama: 2.8 mm; Detail: 5 mm–125 mm	1296); 1080P (1920 × 1080); 1.3M (1280 × (1280 × 720); D1 (704 × 576/704 × 480); V 480); CIF (352 × 288/352 × 240)	
Max. Aperture	Panorama: F1.0; Detail: F1.6–F3.6		Main stream: 4 MP/3 MP/1080p/1.3 MP/720p@
Field of View	Panorama: H: 101°; V: 53°; D: 120°; Detail: H: 51.9°–3.0°; V: 39.7°–2.2°; D: 63.1°–3.7°	Video Frame Rate	(1–25/30 fps) Sub stream 1: D1/CIF/VGA@(1–25/30 fps) Sub stream 2: 1080p/1.3 MP/720p@(1–25/30 fps)
Optical Zoom	Panorama: NA; Detail: 25×	Bit Rate Control	CBR/VBR
Focus Control	Auto; semi-auto; manual	Video Bit Rate	H264: 96 Kbps–14848 Kbps
Close Focus Distance	Panorama: 0.2 m (0.66 ft); Detail: 0.1 m-0.5 m (0.33 ft-1.64 ft)		H265: 38 Kbps–8960 Kbps Auto (ICR)/Color/B/W
Iris Control	Auto; manual	Day/Night BLC	
DORI Distance	Detect Observe Recognize Identify		Yes
	2500 m 987.5 m 500 m 250 m (8202.10 ft) (3239.83 ft) (1640.42 ft) (820.21 ft)	WDR	120 dB
PTZ	(0202.1011) (3233.0311) (1010.1211) (020.2111)	HLC	Yes  Auto; indoor; outdoor; tracking; manual; sodium
Pan/Tilt Range	Panorama camera: Tilt: 13° to 23°; Detail camera: Pan: 0° to 360° endless; Tilt: –15° to	White Balance	lamp; natural light; street lamp
, 0	90°, auto flip 180°	Gain Control	Auto; manual
Manual Control Speed	Pan: 0.1°/s–200°/s; Tilt: 0.1°/s–120°/s	Noise Reduction	2D NR; 3D NR
Preset Speed	Pan: 240°/s; Tilt: 200°/s	Motion Detection	Yes
Preset	300	Region of Interest (RoI)	Yes
Tour	8 (up to 32 presets per tour)	Image Stabilization	EIS
Pattern	5	Defog	Electronic
Scan	5	Digital Zoom	16×

Image Rotation	180°			
S/N Ratio	≥ 55 dB			
Audio				
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723			
Network				
Network Port	RJ-45 (10/100 Base-T)			
Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPP0E; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP			
Interoperability	ONVIF(Profile S&G&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: EN55032/EN55024/EN50130-4			
Port				
Audio Input	1 channel (LINE IN, bare wire)			
Audio Output	1 channel (LINE OUT, bare wire)			
Alarm Input	2 (on-off value input: 0–5 VDC)			
Alarm Output	1			
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital input; audio; warning light			
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: 12 W Max. (Basic power consumption + illuminator+sound and light warning +PTZ operation + Heater ): 25 W (12 VDC)			
Environment				
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)			
Operating Humidity	≤95%			
Protection	TVS 6000 V lightning proof;IP66; surge protection; voltage transient protection			

## Structure

Product Dimensions	160.0 mm × 184.4 mm × 304.6 mm (6.30" × 7.26" × 11.99")(L × W × H)
Net Weight	3.41 kg (7.52 lb)

Ordering Information				
Туре	Model	Description		
4MP 25X TiOC WizSense Network PTZ Camera	DH-SDT4E425-4F-GB- A-PV1	X-Spans 4MP+4MP 25x TiOC WizSense Network PTZ Camera		
	SDT4E425-4F-GB-A-PV1	X-Spans 4MP+4MP 25x TiOC WizSense Network PTZ Camera		
Accessories	PFB305W	Wall Mount Bracket		
	DC12V/3A	Power Adapter		
	PFA126	Mount Adapter		
	PFA111	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		