

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

X-Spans 4MP+4MP 25x TiOC WizSense 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.

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.
- \cdot IR distance up to 100 m.
- \cdot Auto tracking 3.0.
- Smart tracking.
- \cdot 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.

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Technical Specification

Са	me	ra

Camera				
Image Sensor	Panorama: 1/2.8" CMOS; Detail: 1/2.8" CMOS			
Pixel	Panorama: 4 MP; Detail: 4 MP			
Max. Resolution	Panorama: 2560 (H) × 1440 (V); Detail: 2560 (H) × 1440 (V)			
ROM	Panorama: 4 GB; Detail: 4 GB			
RAM	Panorama: 1 GB; Detail: 1 GB			
Electronic Shutter Speed	Panorama: 1/3s-1/100000s; Detail: 1s-1/30000s			
Scanning System	Progressive			
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@ F1.6 (B/W, 30 IRE); 0 lux (illuminator on)			
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 light)			
Illuminator On/Off Control	Panorama: Auto; Manual; Off; Detail: Zoom Prio; Auto; Manual; Off			
Illuminator Number	Panorama: 2 (IR); 2 (white light); Detail: 2 (IR); 2 (dual light Fusion)			
Lens				
Focal Length	Panorama: 2.8 mm; Detail: 5 mm–125 mm			
Max. Aperture	Panorama: F1.0; Detail: F1.6–F3.6			
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°			
Optical Zoom	Panorama: NA; Detail: 25×			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	Panorama: 0.2 m (0.66 ft); Detail: 0.1 m–0.5 m (0.33 ft–1.64 ft)			
Iris Control	Auto; manual			
	Detect	Observe	Recognize	Identify
	2500 m (8202.10 ft)	987.5 m (3239.83 ft)	500 m (1640.42 ft)	250 m (820.21 ft)
DORI Distance	*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.			
PTZ				
Pan/Tilt Range	Panorama camera: Tilt: 13° to 23°; Detail camera: Pan: 0° to 360° endless; Tilt: –15° to 90°, auto flip 180°			
Manual Control Speed	Pan: 0.1°/s–200°/s; Tilt: 0.1°/s–120°/s			
Preset Speed	Pan: 240°/s; Tilt: 200°/s			

300
8 (up to 32 presets per tour)
5
5
Yes
Pattern; Preset; Scan; Tour
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 objects
Yes
SMD4.0
Yes
Red-blue light warning Flash duration: 5 s–30 s Flash frequency: high, medium, low
Offers 11 sound alarms and supports importing custom sound alarms.
H.265; H.264B; H.264; H.264H; MJPEG(Sub Stream 1); smart H.265+; smart H.264+
3 streams
Panorama: 4M (2560 × 1440); 3M (2048 × 1536); 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) Detail: 4M (2560 × 1440); 3M (2048 × 1536); 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)
Main stream: 4 MP/3 MP/1080p/1.3 MP/720p@ (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)
Sub stream 2: 1080p/1.3 MP/720p@(1-25/30 fps)
Sub stream 2: 1080p/1.3 MP/720p@(1–25/30 fps) CBR/VBR H264: 96 Kbps–14848 Kbps
Sub stream 2: 1080p/1.3 MP/720p@(1–25/30 fps) CBR/VBR H264: 96 Kbps–14848 Kbps H265: 38 Kbps–8960 Kbps
Sub stream 2: 1080p/1.3 MP/720p@(1–25/30 fps) CBR/VBR H264: 96 Kbps–14848 Kbps H265: 38 Kbps–8960 Kbps Auto (ICR)/Color/B/W
Sub stream 2: 1080p/1.3 MP/720p@(1–25/30 fps) CBR/VBR H264: 96 Kbps–14848 Kbps H265: 38 Kbps–8960 Kbps Auto (ICR)/Color/B/W Yes
Sub stream 2: 1080p/1.3 MP/720p@(1–25/30 fps) CBR/VBR H264: 96 Kbps–14848 Kbps H265: 38 Kbps–8960 Kbps Auto (ICR)/Color/B/W Yes 120 dB
Sub stream 2: 1080p/1.3 MP/720p@(1–25/30 fps) CBR/VBR H264: 96 Kbps–14848 Kbps H265: 38 Kbps–8960 Kbps Auto (ICR)/Color/B/W Yes 120 dB Yes Auto; indoor; outdoor; tracking; manual; sodium
Sub stream 2: 1080p/1.3 MP/720p@(1–25/30 fps) CBR/VBR H264: 96 Kbps–14848 Kbps H265: 38 Kbps–8960 Kbps Auto (ICR)/Color/B/W Yes 120 dB Yes Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp

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Region of Interest (Rol)	Yes
Image Stabilization	EIS
Defog	Electronic
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; PPPoE; 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	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
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)

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	

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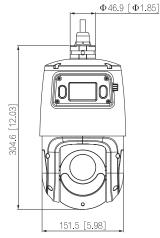
Accessories			Wall Mount	Ceiling Mount 1	Ceiling Mount 2
			PFB305W+PFA126	PFA111+PFB300C	PFA111+PFB301C
Included:					
			Pole Mount (Vertical)	Corner Mount	Pole Mount (Horizontal)
PFB305W Wall Mount			PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB300C+PFA150
Bracket					
			Plane Mount PFB301S-E	Parapet Mount PFA111+PFB303S	
DC12V/3A Power Adapter	PFA126 Mount Adapter	PFA111 Mount Adapter			
Ī	S.m.				
PFB300C	PFB301C	PFA151	Dimensions (mm[incl	h])	
Ceiling Mount Bracket	Ceiling Mount Bracket	Corner Mount Bracket		.9 [Φ1.85]	45.9 [1.81]



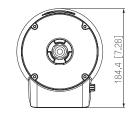
PFA150 Pole Mount Bracket

PFB303S Parapet Mount Bracket

PFB301S-E Plane Mount Bracket



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