



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. 3D Target Positioning, Image Freezing and PTZ Status Display.

- · Panorama: 1/2.8" 4 Megapixel Full Color 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.
- · Face Detection.
- · 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		Power-off Memory	Yes	
Camera		Idle Motion	Pattern; Preset; Scan; Tour	
Image Sensor	Panorama: 1/2.8" CMOS; Detail: 1/2.8" CMOS	Intelligence	Intelligence	
Pixel	Panorama: 4 MP; Detail: 4 MP	detection, missing object; fast moving; parking	detection; region entrance detection, region exiting	
Max. Resolution	Panorama: 2560 (H) × 1440 (V); Detail: 2560 (H) × 1440 (V)		classification; linking the detail camera to SMD4.0	
ROM	Panorama: 4 GB; Detail: 4 GB	Auto Tracking & Quick Pick Park Action & Scheduled Task	Yes preset, pattern scan, tour scan, auto scan, tilt scan,	
RAM	Panorama: 1 GB; Detail: 1 GB		random scan, frame scan, panorama scan	
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 Flash frequency: high, medium, low	
Slow Shutter	Yes	, ,		
Min. Illumination	Panorama: 0.0005 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	Offers 11 sound alarms and supports importing Custom sound alarms.	
	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	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 × 1296); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P	
Illuminator Number	Panorama: 2 (IR); 2 (white light); Detail: 2 (IR); 2 (dual light Fusion)	Resolution	(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: 4.8 mm–125 mm		1296); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 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@(1–	
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	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)	Day/Night	H265: 38 Kbps-8960 Kbps Auto (ICR)/Color/B/W, Scheduled-Switch.	
Iris Control	Auto; manual	BLC	Yes	
DORI Distance	Detect Observe Recognize Identify	WDR	120 dB	
	2500 m 987.5 m 500 m 250 m (8202.10 ft) (3239.83 ft) (1640.42 ft) (820.21 ft)	HLC	Yes	
PTZ		White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp;	
Pan/Tilt Range	Panorama camera: Tilt: 13° to 23°; Detail: Pan: 0° to 360° endless; Tilt: –15° to 90°,	Gain Control	fluorescent lamp; natural light; locked White Balance Auto; manual	
Manual Control Speed	auto flip 180° 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	SVC	YES	
Zoom Speed	approx. 2.2 s	Region of Interest (RoI)	Fixed 8 Area, (Dynamic Target Tracking, Main Stream, Sub-Stream and Third Stream)	
Preset	300	Imaga Stabilization	EIS	
Tour	8 (up to 32 presets per tour)	Image Stabilization		
Pattern	5	Defog & Demist	Electronic & Demist by heating the glass for lens inside.	
Scan	5	Digital Zoom	16×	

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Image Rotation	180°
S/N Ratio	≥ 52 dB
Regional Focus	Yes
Regional Exposure	Yes
Image Parameters Switch	Yes
Audio	
Audio Compression	PCM; G.711alaw; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723; MP2L2, AAC
Audio Bit rate	32 kbps, 40 kbps, 48 kbps, 56 kbps, 64 kbps, 80 kbps, 96kbps, 112 kbps, 128kbps, 144 kbps, 160 kbps, 192 kbps
Audio Sampling Rate	16 kHz, 32 kHz, 48 kHz, PCM: 8 kHz, 16 kHz, 32 kHz, 48kHz
Environment Noise Filtering	Yes
Certification	
Certifications	UL; CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014
Network	. 2511 dt 225 5555pdt (b), / 11151 CO517 2017
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 Auto Register.
Streaming Method	Unicast/Multicast
Simultaneous Live View	20
User/Host	32 (total bandwidth: 128 M)
Storage	FTP; Micro SD card (up to 512 G); NAS (NFS, SMB/CIFS), ANR with Video Content Analytics.
Browser	IE 10+ and later versions Chrome 57 and later versions Firefox 52 and later versions iOS 10 and later versions
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted bo trusted execution; trusted upgrade, HTTPS encryption
Management Software	DMSS; DSS Pro
Mobile Client	iOS; Android
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	$-40~^{\circ}\text{C}$ to +65 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +149 $^{\circ}\text{F})$			
Operating Humidity	≤ 95%			
Protection	Protection TVS 6000 V lightning proof;IP66; surge 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

Included:



PFB305W Wall Mount Bracket

Optional:



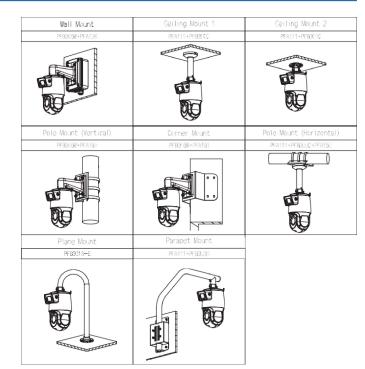
DC12V/3A Power Adapter



Mount Adapter



PFA111 Mount Adapter





PFB300C Ceiling Mount



PFB301C Ceiling Mount Bracket



PFA151 Corner Mount Bracket



Dimensions (mm[inch])



PFA150 Pole Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket

