

DH-SDT4E225-4F-GB-A

X-Spans 4+2MP 25x Smart Dual Light + 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"2Megapixel STARVIS™ CMOS.
- · 25x optical zoom.
- · Max. 25/30fps@4M.
- · IR distance up to 100 m.
- · Auto tracking 3.0.
- · Smart tracking.
- · Perimeter protection.
- · 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		Idle Motion	Pattern;Preset;Scan;Tour	
Camera		Intelligence	Intelligence	
Image Sensor	Overview channel: 1/2.8" CMOS; Detail channel: 1/2.8" CMOS Overview channel: 4 MP;	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 channel camera	
Pixel	Detail channel: 2 MP		to track objects	
Max. Resolution	Overview channel: 2560 (H) × 1440 (V); Detail channel: 1920 (H) × 1080 (V)	Smart Tracking	Yes	
ROM	Overview channel: 4 GB; Detail channel: 4 GB	SMD	SMD 4.0	
RAM	Overview channel: 1 GB;	Quick Pick	Yes	
IVAIVI	Detail channel: 1 GB Overview channel: 1/3 s-1/100,000 s;	Video		
Electronic Shutter Speed	Detail channel: 1 s–1/30,000 s	Video Compression	H.264H; H.264B; Smart H.265+; H.265; Smart H.264+; H.264M; MJPEG (Sub Stream 1)	
Scanning System	Progressive	Streaming Capability	3 streams	
Min. Illumination	Overview channel: 0.001 lux@F1.0 (Color, 30 IRE); 0.0005 lux@F1.0 (B/W, 30 IRE); 0 lux (illuminator on); Detail channel: 0.005 lux@F1.6 (Color, 30 IRE); 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) (white light);	Resolution	Overview channel: 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 channel: 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480);	
Illumination Distance	(write light); Detail channel: 100 m (328.08 ft) (IR) 50 m (164.04 ft) (white light)		VGA (640 × 480); CIF (352 × 288/352 × 240)	
Illuminator On/Off Control	Overview channel: Auto; Manual; Off; Detail channel: Zoom Prio; Auto; Manual; Off	Video Frame Rate	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)	
Illuminator Number	Overview channel: 2 (IR); 2 (white light); Detail channel: 2 (IR); 2 (dual light Fusion)	Bit Rate Control	CBR/VBR	
Lens		Video Bit Rate	H264: 96 Kbps-14,848 Kbps	
Focal Length	Overview channel: 2.8 mm; Detail channel: 5 mm–125 mm	Day/Night	H265: 38 Kbps–8,960 Kbps Auto (ICR); Color/B/W	
Max. Aperture	Overview channel: F1.0; Detail channel: F1.6–F3.6	BLC	Yes	
Field of View	Overview channel: H: 101°; V: 53°; D: 120°; Detail	WDR	120 dB	
	channel: H: 51.9°–3.0°; V: 39.7°–2.2°; D: 63.1°–3.7° Overview channel: NA;	HLC	Yes	
Optical Zoom	Detail channel: 25×	White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	
Focus Control	Auto; semi-auto; manual	Gain Control	Auto; manual	
Close Focus Distance	Overview channel: 0.2 m (0.66 ft); Detail channel: 0.1 m-0.5 m (0.33 ft-1.64 ft)	Noise Reduction	2D NR; 3D NR	
Iris Control	Auto; manual	Motion Detection	Yes	
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)	Region of Interest (RoI) Image Stabilization	Electronic Image Stabilization (EIS)	
PTZ		Defog	Electronic	
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –15° to +90°, auto flip 180°	Digital Zoom	16×	
Manual Control Speed	Pan: 0.1°/s–200°/s;	Image Rotation	180°	
·	Tilt: 0.1°/s–120°/s Pan: 240°/s;	S/N Ratio	≥55 dB	
Preset Speed	Tilt: 200°/s	Audio		
Preset	300	Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2;	
Tour	8 (up to 32 presets per tour)	Network	G722.1; G729; G723	
Pattern	5	Network Port	RJ-45 (10/100 Base-T)	
Scan	5	NETWORKFOLL	10 15 (10) 100 base 1)	
Power-off Memory	Yes			

Network Protocol	FTP;RTMP;IPv6;Bonjour;IPv4;DNS;RTCP;PPPoE;NTP;RT P;802.1x;QoS;HTTPS;SNMP;TCP/IP;DDNS;UPnP;NFS;IC MP;UDP;IGMP;HTTP;SSL;DHCP;SMTP;RTSP;ARP			
Interoperability	ONVIF (Profile S & Profile G & Profile 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 FCC: Part15 subpartB, ANSI C63.4-2014			
Port				
Audio Input	1 channel			
Audio Output	1 channel			
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 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-SDT4E225-4F-GB-A	X-Spans 4+2MP 25x Smart Dual Light + Network PTZ Camera		
	SDT4E225-4F-GB-A	X-Spans 4+2MP 25x Smart Dual Light + 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



PFA126 Mount Adapter



PFA111 Mount Adapter



PFB300C Ceiling Mount Bracket



PFB301C Ceiling Mount Bracket



PFA151 Corner Mount Bracket



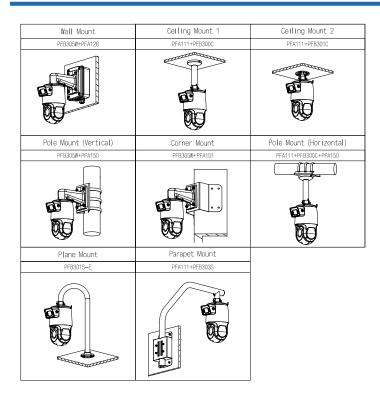
PFA150 Pole Mount Bracket



PFB303S Parapet Mount Bracket



PFB301S-E Plane Mount Bracket



Dimensions (mm[inch])

