

DH-SDT4E225-4F-GB-A-PV1-S2

2+4MP 25x Smart Dual Illumination Active Deterrence X-Spans Network PTZ Camera







Series 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

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.

AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

AcuPick

This industry-leading search technology effectively utilizes both frontend and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

- Overview channel: 1/2.8" 4Megapixel F1.0 CMOS
- Detail channel: 1/2.8"2Megapixel STARVISTM CMOS
- 25× optical zoom
- Max. 25/30 fps@4M
- IR distance up to 100m
- Xinghan Large-Scale AI Models
- Auto tracking 3.0
- Smart tracking
- Perimeter protection
- Active deterrence
- Smart dual light +
- Built-in dual mics and a speaker for two-way talk













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.

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.

SMD

Empowered by deep-learning algorithms, Dahua SMD filters out motion detection alarms triggered by targets that are not a concern. It quickly recognizes humans and vehicles, triggering alarms when an intrusion occurs.

Protection (IP66, TVS 6000 V)

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

Technical	Specification	n						
Camera Image Sensor		Overview channel: 1/2.8" CMOS; Detail channel: 1/2.8"						
-	I	CMOS						
Pixel				etail channel: 2				
Max. Resolution		Overview channel: 2560 (H) × 1440 (V); Detail channel: 1920 (H) × 1080 (V)						
ROM		Overview cha	annel: 4 GB; De	tail channel: 4	GB			
RAM		Overview channel: 2 GB; Detail channel: 1 GB						
Electronic Shutter Speed		Overview channel: 1/3s-1/100000s; Detail channel: 1s-1/30000s						
Scanning System		Progressive						
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)			
		(warm light) Detail channel: 100 m (328.08 ft) (IR); 50 m (164.04 ft)						
		Illuminator On/Off Control		(warm light) Overview channel: Auto; Manual; Off; Detail channel: Zoom Prio; Auto; Manual; Off				
		Illuminator N	lumber	Overview channel: 2 (IR); 2 (warm light);				
Lens		Detail channel: 2 (IR); 2 (dual light Fusion)						
Focal Length		Overview channel: 2.8 mm; Detail channel: 5 mm–125						
		mm						
Max. Apertur	re	Overview channel: F1.0; Detail channel: F1.6–F3.6						
Field of View	,	Overview channel: H: 101°; V: 53°; D: 120° Detail channel: H: 51.9°–3.0°; V: 39.7°–2.2°; D: 63.1°–						
		3.7°						
Optical Zoom	1	Overview channel: NA Detail channel: 25×						
Focus Contro	ol	Auto; manual; semi-auto						
Close Focus I	Distance		annel: 0.2 m (0. el: 0.1 m–0.5 m	.66 ft) ı (0.33 ft–1.64 f	t)			
Iris Control		Overview cha			-,			
	Lens	Detect	Observe	Recognize	Identify			
DORI Distance	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)			
	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)			
	Т	2500.0 m (8202.00 ft)	1000.0 m (3280.80 ft)	500.0 m (1640.40 ft)	250.0 m (820.20 ft)			

Video		Built-in MIC	Yes	
Video Compression	Smart H.265+;H.265;Smart H.264+;H.264B;H.264M;H.264H;MJPEG(Sub Stream 1)	Built-in Speaker	Yes	
Streaming Capability	3 streams	Network		
Streaming capability	Overview channel: 4M (2560 × 1440); 3M (2048 ×	Network Port	1 × RJ-45 (10/100 Base-T)	
Resolution	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); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480);	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;SMB;NFS	
	VGA (640 × 480); CIF (352 × 288/352 × 240)	Interoperability	ONVIF (Profile S & Profile G & Profile T);CGI;SDK	
	Overview channel: Main stream: 4M/3M/1080p/1.3M/720p@(1-25/30	Streaming Method	Unicast/Multicast	
	fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps)	User/Host	20 (total bandwidth: 64 M)	
Video Frame Rate	Sub stream 2: 1080p/1.3M/720p@(1–25/30 fps) Detail channel:	Storage	Micro SD card (512 GB); FTP/SFTP; NAS	
	Main stream: 1080p/1.3M/720p@(1–50/60 fps) Sub stream 1: D1/VGA/CIF@(1–25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1–25/30 fps)	Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions	
Bit Rate Control	CBR/VBR	Management Software	DMSS;DSS Pro	
Video Bit Rate	H264: 64 kbps–10,240 kbps H265: 25 kbps–6,144 kbps	Mobile Client	iOS;Android	
Day/Night	Overview channel: Auto; Color; B/W; Electronic	Certification		
BLC	Detail channel: Auto; Color; B/W; Electronic Yes	Certifications	CE: EN 50130-4 EN 55032 EN 55035 EN 61000-3-3 EN IEC 61000-3-2 EN 62368-1	
WIDD	Overview channel: DWDR	Port		
WDR	Detail channel: 120 dB Yes	Audio Input	1 channel (LINE IN, bare wire, built-in mic (mutually exclusive)	
White Balance	Overview channel: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	Audio Output	1 channel (LINE OUT,bare wire;built-in speaker (mutually exclusive))	
white Balance	Detail channel: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp	Alarm Input	2 (on-off value input: 0–5 VDC)	
Gain Control	Overview channel: Auto; manual; gain prio Detail channel: Auto; manual; gain prio	Alarm Output	1 channel	
Noise Reduction	Overview channel: 2D NR; 3D NR Detail channel: Auto: 2D NR; 3D NR	Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output; audio; warning light Motion/tampering detection; network disconnection	
Motion Detection	Yes	Alarm Event	detection; IP conflict detection; memory card state detection; memory space detection	
Region of Interest (RoI)	Yes	Alarm I/O	2/1	
Image Stabilization	Overview channel: NA Detail channel: Electronic Image Stabilization (EIS)	Audio I/O	1/1	
Defog	Overview channel: Electronic	Power		
Delog	Detail channel: Electronic Overview channel: NA	Power Supply	12 VDC, 3 A ± 10% PoE (802.3at)	
Digital Zoom	Detail channel: 16×		Basic: 14 W	
Image Rotation	Overview channel: NA Detail channel: 180°	Power Consumption	Max: 25 W (illuminator + heating glass + Siren and Light Active Deterrence + ICR + PTZ)	
	Up to 24 areas can be set, with up to 8 areas in the	Power Adapter	Optional	
Privacy Masking	same view Multple colors and mosaic available	Environment		
S/N Ratio	Overview channel: ≥55 dB	Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)	
	Detail channel: ≥55 dB	Operating Humidity	≤95%	
Audio Compression	PCM, G.711A, G.711Mu, G.726, MPEG2-Layer2,	Protection	IP66;TVS 6000 V lightning proof; surge protection; voltage transient protection	
Audio Compression	G.722.1, G.729			

Structure

Casing Material	ADC12		
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

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Туре	Model	Description				
Network PTZ Camera	DH-SDT4E225-4F-GB-A- PV1-S2	2+4MP 25x Smart Dual Illumination Active Deterrence X-Spans Network PTZ Camera				
	PFB305W	Wall Mount Bracket				
	DH-PFB301S-E	Plane Mount Bracket				
	DH-PFB300C	Ceiling Mount Bracket				
Accessories	PFA114	Mount Adapter				
Accessories	DH-PFA150	Pole Mount Bracket				
	DH-PFA151	Corner Mount Bracket				
	DH-PFB303S	Parapet Mount Bracket				
	DH-PFA126	Water-proof Junction Box				

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DH-PFA126 Water-proof Junction Box



DH-PFA150 Pole Mount Bracket



DH-PFA151 Corner Mount Bracket



DH-PFB300C Ceiling Mount Bracket



DH-PFB301S-E Plane Mount Bracket



DH-PFB303S Parapet Mount Bracket

Optional:



PFA114 Mount Adapter

#all Mount	Ceiling Mount 1	Ceiling Mount 2
PFB305W+PFA126	PFA114+PFB300C	PFA114+PFB301C
Pole Mount (Vertical)	Corner Mount	Pole Mount (Horizontal)
PFB305W+PFA150	PFB305W+PFA151	PFA114+PFB300C+PFA150
Plane Mount	Parapet Mount	
PFB301S=E	PFA114+PFB303S	

Dimensions (mm[inch])



