

DH-SDT4E425-8P-GB-APV1

8MP+4MP 25x Starlight TiOC Network Panoramic & PTZ Camera





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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.

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

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 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.

- · Panorama: Outputs 180° wide angle splicing image
- Detail: 1/2.8"4Megapixel STARVIS™ CMOS
- 25x optical zoom
- · Max. 25/30 fps@8M
- · IR distance up to 100 m
- Auto tracking 3.0
- Smart tracking
- · Perimeter protection
- · Active deterrence
- · Smart dual light +









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

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.

Smart Tracking

Automatically tracks moving targets, keeping them on the monitoring screen. With its flexible design, human, motor vehicle and non-motor vehicle targets can be set to be tracked. These parameters can also be combined. Targets are immediately tracked when detection rules (such as tripwire and intrusion) are triggered.

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the white light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in one voice, and supports customized voice importing.

Processor	Technical Specificatio	n							Tilt: 0.1°/s-90°/s	
Pattern Patt	Camera							Preset	300	
Max. Resolution	Image Sensor	Panorama: 1/2.7" CMOS; Detail: 1/2.8" CMOS						Tour	8 (up to 32 presets per tour)	
No. No. Mo. Pancamana 48th Detail 418 318	Pixel	Panorama: 8 MP; Detail: 4 MP						Pattern	5	
Second S	Max. Resolution	Panorama	: 4096 × 186	60; Detail: 25	560 × 1440			Scan	5	
Section Shutter Speed 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	ROM	Panorama	: 4 GB; Deta	il: 4 GB				Power-off Memory	Yes	
Scanning System Progressive	RAM	Panorama	: 2 GB; Deta	il: 1 GB				Idle Motion	Preset;Pattern;Tour;Scan	
Min.	Electronic Shutter Speed	1 s-1/30,000 s						Intelligence		
Min. Illumination Data D	Scanning System	Panorama: 0.005 lux@F1.4 (Color, 30 IRE); 0.0005 lux@F1.4 (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);						IVS (Perimeter Protection)	detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm	
Detail: County Detail: Color; 30 RE); C								Auto Tracking	Auto tracking 3.0	
Active Deterrence OLOWIS Lose/File (RIPM, 20 NEX) OLOWIS Lose/File (RIPM, 20 NEX) OLOWIS Light (Windows) Olow (Win	Min. Illumination							SMD	SMD 4.0	
Panorama: 30 m (98.43 ft) (IRI): 30 m (98.43 ft) (white light) Elight Warning Elight								Active Deterrence		
100 m (328.06 ktj (IR); 50 m (131.23 ft) (white light) 50 m (131.23 ft) 50 m (131.2	Illumination Dictance	Panorama: 30 m (98.43 ft) (IR); 30 m (98.43 ft) (white light)						Light Warning	Flash duration: 5 s–30 s;	
Detail:	munimation distance	100 m (328.08 ft) (IR); 50 m (131.23 ft) (white light)						Sound Warning	be imported. Sound can be set from 0%–100%.	
Recognition Panorama: 2 (R light); 2 (White light); Detail: 2 (IR light); 2 (White light); Detail: 2 (IR light); 2 (White light); Detail: 2 (IR light); Detail: 2 (IR light); 2 (Warm light) Streaming Capability Streaming Capability Streaming Capability 3 streams	Illuminator On/Off Control	Detail:								
Streaming Capability	Illuminator Number	Panorama: 2 (IR light); 2 (White light); Detail: 2 (IR						Video Compression		
Panorama: 2.8 mm; Detail: 5 mm - 125 mm Panorama: 2.8 mm; Detail: 5 mm - 125 mm Panorama: 2.8 mm; Detail: 5 mm - 125 mm Panorama: 8M (4096 × 1860); ZM (2048 × 928); 10800 (1970 × 1080); 7200 (1280 × 720); 1004 × 448; D1 (704 × 720); 1004 × 448); VGA (640 × 480); CIF (352 × 288)/52 × 240); Detail: 4M (2560 × 1440); 3M (2304 × 1296); Detail: 4M (2560 × 1440); 3M (2304 × 1296); Detail: 4M (2560 × 1440); 3M (2304 × 1296); Detail: 4M (2560 × 1440); 3M (2304 × 1296); Detail: 4M (2560 × 1440); 3M (2304 × 1296); Detail: 4M (2560 × 1440); 3M (2304 × 1296); Detail: 4M (2560 × 1440); M (2560 × 1440); M (2504 × 1440); CIF (352 × 288) (252 × 288) (252 × 280); Detail: 4M (2560 × 1440); M (2	Lens	<i>5 //</i>	σ,					Streaming Capability	3 streams	
Max. Aperture Panorama: F1.4; Detail: F1.6-F3.6 Resolution × 576/704 × 480);VGA (640 × 480);CIF (352 × 288/352 × 240); Detail: 44(0); 3M (2304 × 1296); To (3009 (1290 × 1296); 13M (1280 × 960); 7200 (1280 × 720); D1 (704 × 576/704 × 480);VGA (640 × 480);CIF (352 × 288/352 × 240) Panorama: H: 180°; V: 86°; Detail: H: 51.9°=3.0°; V: 39.7°=-2.2°; D: 63.1°=3.7° Panorama: NA;Detail: 25 × Panorama: 0.6 m (1.97 ft); Detail: 0.1 m=0.5 m (0.33"-1.64") Panorama: 0.6 m (1.97 ft); Detail: 0.1 m=0.5 m (0.33"-1.64") Panorama: 0.6 m (1.97 ft); Detail: 0.1 m=0.5 m (0.33"-1.64") Video Frame Rate		Panorama: 2.8 mm· Detail: 5 mm–125 mm						Resolution	(1920 × 1080); 720p (1280 × 720); 1024 × 448; D1 (704 × 576/704 × 480);VGA (640 × 480);CIF (352 × 288/352 × 240); Detail: 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480);VGA (640 × 480); CIF	
Panorama: H: 180°; V: 86°; Detail: H: 51.9°-3.0°; V: 39.7°-2.2°; D: 63.1°-3.7°	-									
Focus Control Auto; manual; semi-auto Main stream: 4096 × 1860 @(1-25/30 fps) Sub stream 1: 1024 × 448/D1/VGA/CIF@ (1-25/30 fps) Sub stream 1: 1024 × 448/D1/VGA/CIF@ (1-25/30 fps) Sub stream 1: 2048 × 928/1080p/1.3M/720p @(1-25/30 fps) Sub stream 2: 2048 × 928/1080p/1.3M/720p @(1-25/30 fps) Sub stream 2: 2048 × 928/1080p/1.3M/720p @(1-25/30 fps) Detail: Main stream: 4M/3M/1080p/1.3M/720p @(1-25/30 fps) Sub stream 1: D1/VGA/CIF@ (1-25/30 fps) Sub stream 2: 1080p/1.3M/720p @(1-25/30 fps) Sub stream 2: 1080p/1.3M/72		Panorama: H: 180°; V: 86°; Detail: H: 51.9°–3.0°; V:								
Sub stream 1: 1024 × 448/D1/VGA/CIF@ (1-25/30 fps)	Optical Zoom	Panorama: NA;Detail: 25 ×							Panorama:	
Panorama: 0.6 m (1.97 ft); Detail: 0.1 m - 0.5 m (0.33"- 1.64")	Focus Control	Auto; man	ual; semi-au	ıto						
Panorama: NA; Detail: Auto; manual; iris prio Main stream: 4M/3M/1080p/1.3M/720p @(1-25/30 fps) Sub stream 1: D1/VGA/CIF@ (1-25/30 fps) Sub stream 2: 1080p/1.3M/720p/@(1-25/30 fps) Sub stream 2: 1080p/1.	Close Focus Distance	, , , , , , , , , , , , , , , , , , , ,						Video Frame Rate	Sub stream 2: 2048 × 928/1080p/1.3M/720p @(1– 25/30 fps);	
Lens	Iris Control	Panorama: NA; Detail: Auto; manual; iris prio							Main stream: 4M/3M/1080p/1.3M/720p @(1-25/30	
DORI Distance a: 2.8		Lens	Detect	Observe		Identify			Sub stream 1: D1/VGA/CIF@ (1–25/30 fps)	
Panorama:	DORI Distance	a: 2.8 mm; Detail: 5 mm–125		(8202.1 (3239.8	(1640.4	(820.21		Bit Rate Control	CBR/VBR	
Pan/Tilt Range Pan: 0° to 360° endless Tilt: -15° to +90°, auto flip 180° Manual Control Speed Pan: 0.1°/s-180°/s; Tilt: 0.1°/s-90°/s Tilt: 0.1°/s-90°/s Pan: 0.1°/s-90°/s Pan: 0.1°/s-90°/s Pan: 0.1°/s-90°/s Pan: 0.1°/s-90°/s Pan: 0.1°/s-90°/s Pan: 0.1°/s-90°/s WDR Panorama: Auto; Color; B/W; Electronic Detail: Auto; Color; B/W; Electronic Detail: Auto; Color; B/W; Electronic Detail: Auto; Color; B/W; Electronic			(8202.1					Video Bit Rate	H264: 128 kbps–16,384 kbps H265: 51 kbps–13,312 kbps ; Detail:	
Pan/Tilt Range Tilt: -15° to +90°, auto flip 180° Day/Night Day/Night Day/Night Pani 0.1°/s-180°/s; Tilt: 0.1°/s-90°/s BLC Yes WDR Panorama: DWDR; Detail: 120 dB	PTZ									
Manual Control Speed Tilt: 0.1°/s-90°/s WDR Panorama: DWDR; Detail: 120 dB	Pan/Tilt Range							Day/Night		
WDR Panorama: DWDR; Detail: 120 dB	Manual Control Speed							BLC	Yes	
	Preset Speed							WDR	Panorama: DWDR; Detail: 120 dB	

HLC	Yes		
White Balance	Panorama: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp Detail: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp		
Gain Control	Panorama: Auto; manual; gain prio Detail: Auto; manual; gain prio		
Noise Reduction	Panorama: 2D NR; 3D NR Detail: Auto: 2D NR; 3D NR		
Motion Detection	Yes		
Region of Interest (RoI)	Yes		
Image Stabilization	Panorama: NA Detail: Optical Image Stabilization (OIS)		
Defog	Panorama: Electronic Detail: Electronic		
Digital Zoom	Panorama: NA Detail: 16 ×		
Image Rotation	Panorama: NA Detail: 180°		
S/N Ratio	Panorama: ≥55 dB Detail: ≥55 dB		
Audio			
Audio Compression	PCM, G.711A, G.711Mu, G.726, MPEG2-Layer2, G.722.1, G.729		
Network			
Network Port	RJ-45 (100/1,000 Base-T)		
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;NFS		
Interoperability	ONVIF (Profile S & Profile G & Profile T);CGI;SDK;P2P		
Streaming Method	Unicast/Multicast		
User/Host	20 (total bandwidth: 64 M)		
Storage	Micro SD card (512 GB); FTP/SFTP; NAS		
Browser	web5.0: IE 9 and later versions; Chrome 41 and later versions; Firefox 52 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 channel		

Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital output; audio; warning light
Alarm Event	Motion/tampering 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: 14 W; Max: 25 W (illuminator + heating glass + Siren and Light Active Deterrence + ICR + PTZ)
Environment	
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Operating Humidity	≤95%
Protection	IP66;TVS 6000 V lightning proof; surge protection; voltage transient protection
Structure	
Product Dimensions	194.2 mm × 160 mm × 311 mm (7.65" × 6.30" × 12.24") (L × W × H)
Net Weight	3.1 kg (6.83 lb)
Gross Weight	3.1 kg (6.83 lb)

Ordering Information							
Туре	Model	Description					
Network PTZ Camera	DH-SDT4E425-8P-GB-APV1	8MP+4MP 25x Starlight TiOC Network Panoramic & PTZ Camera					
	DH-PFB301S-E	DH-PFB301S-E					
	DH-PFB300C	Ceiling Mount Bracket					
	DH-PFA150	Pole Mount Bracket					
Accessories (Optional)	DH-PFA151	Corner mount bracket					
	PFA111	Mount Adapter Component					
	DH-PFB303S	DH-PFB303S					
	DH-PFA126	Water-proof Junction Box					

Accessories

Optional:



DH-PFB301S-E DH-PFB301S-E



DH-PFB300C Ceiling Mount Bracket



DH-PFA150 Pole Mount Bracket



DH-PFA151 Corner mount bracket



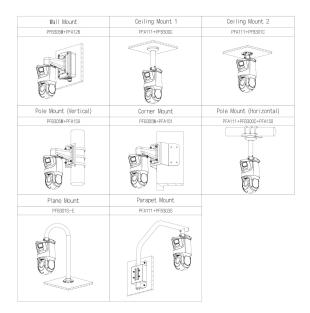
PFA111 Mount Adapter Component



DH-PFB303S DH-PFB303S



DH-PFA126 Water-proof Junction Box



Dimensions (mm[inch])



