

DH-SDT4E425-8P-GB-APV1

8MP+4MP 25x Starlight TiOC Network Panoramic & 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.

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 has exceptional light sensitivity, capturing images 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 Codec

With advanced scene-adaptive rate control algorithm, Dahua smart codec 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.

Auto Tracking

This feature controls the pan, tilt and zoom actions of the camera to automatically track an object in motion, to keep it in view of the camera. Tracking can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

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.

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.

Protection (IP66, TVS 6000 V)

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

Technical Specification

Camera					
Image Sensor	Panorama: 1/2.7" CMOS; Detail: 1/2.8" CMOS				
Pixel	Panorama: 8 MP; Detail: 4 MP				
Max. Resolution	Overview channel: 4096(H) × 1860(V); Overview channel: 2560(H) × 1440(V)				
ROM	Panorama	: 4 GB; Detai	il: 4 GB		
RAM	Panorama	Panorama: 2 GB; Detail: 1 GB			
Electronic Shutter Speed	1 s-1/30,0	1 s-1/30,000 s			
Scanning System	Progressive				
Min. Illumination	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); 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 (131.23 ft) (white light)				
Illuminator On/Off Control	Panorama: Manual; Auto; Off Detail: Zoom Prio; Manual; Auto; Off				
Illuminator Number	Panorama 2 (Warm li		2 (White lig	ght); Detail: 2	2 (IR light);
Lens					
Focal Length	Panorama	: 2.8 mm; De	etail: 5 mm-	-125 mm	
Max. Aperture	Panorama	: F1.4; Detai	l: F1.6-F3.6		
Field of View		Panorama: H: 180°; V: 86°; Detail: H: 51.9°–3.0°; V: 39.7°–2.2°; D: 63.1°–3.7°			
Optical Zoom	Panorama	Panorama: NA;Detail: 25×			
Focus Control	Auto; manual; semi-auto				
Close Focus Distance	Panorama 1.64")	: 0.6 m (1.97	ft); Detail:	0.1 m–0.5 m	n (0.33"—
Iris Control	Panorama	: NA; Detail:	Auto; manı	ual; iris prio	
DORI Distance	Lens Panorama: 2.8 mm; Detail: 5 mm–125 mm	Detect 2,500 m (8202.10 ft)	Observe 987.5 m (3239.83 ft)	Recognize 500 m (1640.42 ft)	ldentify 250 m (820.21 ft)
PTZ					
Pan/Tilt Range		360° endles: o +90°, auto			
Manual Control Speed	Pan: 0.1°/s Tilt: 0.1°/s				
Preset Speed	Pan: 0.1°/s-180°/s; Tilt: 0.1°/s-90°/s				
Preset	300				
Tour	8 (up to 32 presets per tour)				

Pattern5Scan5Power-off MemoryvesIdle MotionPreset;Pattern;Tour;ScanIntelligenceTipwire; intrusion; crossing fence detection; iolaria detection; abandoner/missing object; fast moving; anking detection; people gathering; human alarm classification; linkage trackingSMDSMD 4.0Active DeterrenceFeldBull light warning; Flash frequency: high, medium, lowSund WarningFlash frequency: high, medium, lowSound WarningSereamsSound WarningSound can be set from 0%-100%, play times can be se		
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	Gain Control	

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Noise Reduction	Panorama: 2D NR; 3D NR Detail: Auto: 2D NR; 3D NR
Motion Detection	Yes
Region of Interest (Rol)	Yes
Image Stabilization	Panorama: NA Detail: Electronic Image Stabilization (EIS)
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;built-in speaker (mutually exclusive))
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
Ordering	mormation

Туре	Model	Description
Network PTZ Camera	DH-SDT4E425-8P-GB-APV1	8MP+4MP 25x Starlight TiOC Network Panoramic & PTZ Camera
Accessories	PFB305W	Wall Mount Bracket
	DH-PFB301S-E	Plane Mount Bracket
	DH-PFB300C	Ceiling Mount Bracket
	DH-PFA150	Pole Mount Bracket
	DH-PFA151	Corner mount bracket
	PFA111	Mount Adapter Component
	DH-PFB303S	Parapet Mount Bracket
	DH-PFA126	Water-proof Junction Box
	DC12V/3A	Power Adapter
	PFB301C	Ceiling Mount Bracket

Wiz Sense | DH-SDT4E425-8P-GB-APV1

Accessories

Included:



PFB305W Wall Mount Bracket

Optional:



DH-PFB301S-E Plane Mount Bracket



e[

DH-PFA151 Corner mount bracket



DH-PFA126 Water-proof Junction Box



DH-PFB300C Ceiling Mount Bracket



PFA111 Mount Adapter Component



DC12V/3A Power Adapter



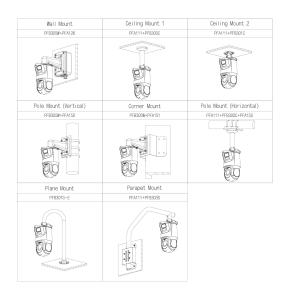
DH-PFA150 Pole Mount Bracket



DH-PFB303S Parapet Mount Bracket



PFB301C Ceiling Mount Bracket



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Dimensions (mm[inch])

