



DH-SDT5X425-4Z4-QA-2812

4MP Starlight IR WizMind Network Dual-PTZ Camera





Launched by Dahua Technology, Dahua WizMind is a full portolio of solutons composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and sofware platorm which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutons for vertcals.

System Overview

Dahua PTZ WizMind network camera adopts advanced CNN deep learning algorithms to support face recogniton with high accuracy. The Dual 4MP Starlight Smart Capture Camera consists of panorama camera and PTZ camera. Panorama camera captures panoramas, and then PTZ camera takes detailed snapshots of objects and keeps tracking objects after rule violatons occur. This camera possesses wide monitor range and PFA algorithm that can always present a clear, focused image while zooming.

Functions

Dual-PTZ System

Panorama camera and Detail camera of the Dual-PTZ system system can be adjusted horizontally and vertically.

Face Recognition

Once facial attributes are extracted from captured faces, they are stored in a database where they can be easily searched and compared against other images. Once a successful match is found, the system outputs the result. The Dahua Face Recognition camera supports a built-in database that stores up to 10,000 facial images, helping the camera achieve real-time face capturing and comparison.

Starlight+ Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.001 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

- · Dual PTZ system, dual vari-focal lens
- 1/1.8" 4Megapixel CMOS
- · Powerful 25x optical zoom
- · Starlight technology
- · Max. 25/30 fps@4M
- · Deep-learning-based auto tracking and perimeter protection
- · Support Hi-PoE
- · H.265 Encoding
- IP67















PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

Metadata

Metadata is attribute information extracted from a target which can be used for data retrieval. There are four kinds of metadata supported by Dahua PTZ WizMind cameras: Human face, human body, motor vehicle and non-motor vehicle. Facial information includes gender, age, glasses, masks, beards, etc. Human body information includes hat, top, top color, bottom, bottom color, bag, etc. Motor vehicle information includes plate color, type, vehicle color, sunshield, ornament, calling, seatbelt, smoking, annual inspection sticker, etc. Non-motor vehicle information includes type, color, top type, top color, people number, etc.

Smart tracking

Human, motor vehicle, and non-motor vehicle, or their combinations can be set as objects. Once the objects selected trigger detection rules (like tripewire and intrusion), the speed dome will track them automatically.

Perimeter Protecton

Automatically filters false alarms caused by animals, rustling leaves, bright lights, etc, and enables system to act secondary recognition for the targets, which improve alarm accuracy.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturers.

Tour 8 (up to 32 presets per tour)	
Pixel Panorama: 4 MP Detail: 4 MP Potail: 2688 (H) × 1520 (V) Potail:	
Pixel Panorama: 4 MP Detail: 4 MP Detail: 4 MP Max. Resolution Panorama: 2688 (H) × 1520 (V) Detail: 2688 (H) × 1520 (V) PTZ Protocol DH-SD Pelco-P/D (auto recognition) ROM 8 GB Intelligence RAM 4 GB Electronic Shutter Speed Panorama: 1 s-1/30,000 s Detail: 1 s-1/30,000 s Detail: 1 s-1/30,000 s Detail: 1 s-1/30,000 s Scanning System Progressive IVS (Perimeter Protection) Panorama: Color: 0.001 lux@F1.3 B/W: 0.0001 lux@F1.3 Detail: Color: 0.001 lux@F1.6 B/W: 0.0001 lux@F1.6 B/W: 0.0001 lux@F1.6 Olux (IR light on) Panorama (white light): 30 m (98 43 ft)	
Max. Resolution Panorama: 2688 (H) × 1520 (V) Detail: 2688 (H) × 1520 (V) PTZ Protocol PTZ Protocol PTZ Protocol PH-SD Pelco-P/D (auto recognition) B GB Intelligence RAM 4 GB Support human body, human face, mo non-motor vehicle image capture and extraction Panorama: 1 s-1/30,000 s Detail: 1 s-1/30,000 s Scanning System Progressive Panorama: Color: 0.001 lux@F1.3 B/W: 0.0001 lux@F1.3 Detail: Color: 0.001 lux@F1.6 B/W: 0.0001 lux@F1.6	
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RAM 4 GB Electronic Shutter Speed Panorama: 1 s-1/30,000 s Detail: 1 s-1/30,000 s Scanning System Progressive IVS (Perimeter Protection) Panorama: Color: 0.001 lux@F1.3 B/W: 0.0001 lux@F1.3 B/W: 0.0001 lux@F1.6 O lux (IR light on) Panorama (white light): 30 m (98 43 ft) Pinorama: It s-1/30,000 s Video Metadata Support human body, human face, mo non-motor vehicle image capture and extraction Propressive IVS (Perimeter Protection) IVS (Perimeter Protection) Face Recognition Yes Video Video Compression H.264H; H.264B; Smart H.265+; H.265; Stream); Smart H.264+; H.264M	
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Electronic Shutter Speed Detail: 1 s-1/30,000 s Scanning System Progressive Panorama: Color: 0.001 lux@F1.3 B/W: 0.0001 lux@F1.3 B/W: 0.0001 lux@F1.6 B/W: 0.0001 lux@F1.6 O lux (IR light on) Panorama (white light): 30 m (98 43 ft) Extraction Tripwire; intrusion; climbing fences; loi detection; abandoned/missing object; parking detection; people gathering; vialarm classification Video Video Video Compression Panorama (white light): 30 m (98 43 ft)	
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B/W: 0.0001 lux@F1.3 Face Recognition Yes	fast moving;
Color: 0.001 lux@F1.6 B/W: 0.0001 lux@F1.6 0 lux (IR light on) Video Compression Panorama (white light): 30 m (98 43 ft) H.264H; H.264B; Smart H.265+; H.265; Stream); Smart H.264+; H.264M	
O lux (IR light on) Panorama (white light): 30 m (98 43 ft) 30 m (98 43 ft)	
30 m (98.43 ft) Stronging Comphility 2 strong	MJPEG(Sub
Illumination Distance Detail (IR light):	
100 m (328.08 ft) Panorama: 4M (2688 × 1520); 4M (2560 × 1440); 1 100 m (328.08 ft) Panorama: 4M (2688 × 1520); 4M (2560 × 1440); 1 1080); 960p (1280 × 960); 720p (1280 × 960); 7	× 720); D1 (704
Panorama: 4 white lights Detail: 4 R l	× 720); D1 (704
Panorama: 3.8 mm, 13 mm	
Detail: 5.4 mm—135 mm Detail: 5.4 mm—135 mm Detail: 5.4 mm—135 mm Video Frame Pate Sub stream 1: D1/VGA/CIF (1–25/30 fp Sub stream 2: 1080p/1.3M/720p/CIF (2–25/30 fp)	1–25/30 fps)
Max. Aperture Detail: F1.6–F4.0 Detail: F1.6–F4.0 Detail: F1.6–F4.0	
Panorama: H: 99.2°-45.8°; V: 59.7°-27.0°; D: 110.4°- Field of View 51.7° Detail: H: 58°-3.5°; V: 35°-2°; D: 64°-4°	,
Detail: 11: 38 = 3.3 , v. 33 = 2 , b. 64 = 4 Bit Rate Control CBR; VBR Optical Zoom Detail: 25x U2C4: F13 Vbrs. 120F6 Vbrs.	
Video Bit Rate H.265: 204 Kbps-7936 Kbps H.265: 204 Kbps-7936 Kbps	
Focus Control Auto; Semi-Auto; Manual Panorama: Auto (ICR) Panorama: 1 m-2.5 m (3.28 ft-8.20 ft) Panorama: 1 m-2.5 m (3.28 ft-8.20 ft)	
Close Focus Distance Detail: 0.5 m-7 m (1.64 ft-22.97 ft) BLC Yes	
Iris Control Panorama: Auto Detail: Auto WDR Panorama: 120 dB	
Detail: 120 dB Detect Observe Recognize Identify HLC Yes	
DORI Distance Panorama: P	; manual;
(5,656.17 ft) (2,263.78 ft) (1,131.89 ft) (564.30 ft) Gain Control Auto; Manual	
Panorama: Noise Reduction 2D NR; 3D NR	
Pan: 0° to 360° endless Tilt: 0° to 30° Pan/Tilt Range Motion Detection Yes	
Pan: 0° to 305° Region of Interest (RoI) Yes	
Tilt: -10° to 90° Defog Electronic Panorama: Pan: 0.1°/s-100°/s; Tilt: 0.1°/s-25°/s	
Manual Control Speed Detail: Pan: 0.1°/s-400°/s; Tilt: 0.1°/s-200°/s Digital Zoom 16×	
Preset Speed Panorama: Pan: 100°/s; Tilt: 50°/s Detail: Pan: 360°/s; Tilt: 200°/s Image Rotation 180°	

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S/N Ratio	Panorama: ≥ 55 dB Detail: ≥ 55 dB		
Audio			
Audio Compression	G.711a; G.711mu; G.726; MPEG2-Layer2; G.722.1; G.729; G723		
Network			
Network Port	RJ-45 (10/100 Base-T)		
Network Protocol	TCP; FTP; RTMP; IPv6; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; DDNS; UPnP; ICMP; UDP; IGMP; HTTP; DHCP; SMTP; SNMP v1/v2c/v3 (MIB-2); QoS; RTSP; ARP		
Interoperability	CGI; ONVIF Profile S&G&T GB/T28181		
Streaming Method	Unicast; Multicast		
User/Host	20 (total bandwidth: 64 M)		
Storage	FTP; Micro SD card (512 GB)		
Browser	IE9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions		
Management Software	DSS; NVR; Smart PSS		
Mobile Client	iOS; Android		
Port			
Audio Input	1 channel (LINE IN, bare wire)		
Audio Output	1 channel (LINE OUT,bare wire)		
Two-way Audio	Yes		
Alarm Linkage	Capture; preset; tour; recordings on SD card; alarm digital input; send email		
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; illegal access		
Alarm I/O	2/1		
Audio I/O	1/1		
Power			
Power Supply	36 VDC, 2.23 A (± 25%) Hi-PoE		
Power Consumption	Basic: 21 W Max.: 40 W (PTZ, zoom, focus, IR light, white light, and smart plan enabled)		
Environment			
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)		
Operating Humidity	≤ 95% (RH)		
Protection	IP67; TVS 8000 V lightning protection; surge protection; voltage transient protection		
Structure			
Product Dimensions	385 mm × Φ277 mm (15.16" × Φ10.91")		
Net Weight	9 kg (19.84 lb)		
Gross Weight	13.8 kg (30.42 lb)		

Ordering Information				
Туре	Model	Description		
Dual-PTZ Camera	DH-SDT5X425-4Z4- QA-2812	4MP 25 Ordinary IR NETWORK PTZ CAMERA		
Accessories	36 VDC/2.23A	Power Adapter		
	PFB306W-S	Wall Mount Bracket		
	PFA150	Pole Mount Bracket		
	PFB300C-S	Ceiling Mount Bracket		

Accessories

Included:





36 VDC/2.23A Power Adapter

PFB306W-S Wall Mount Bracket

Optional:



PFA150 Pole Mount Bracket



PFB300C-S Ceiling Mount Bracket

Wall Mount	Ceiling Mount	Pole Mount(Vertical)
PFB306W-S	PFB300C=S	PFB306W-S+PFA150
Corner Mount	Pole Mount(Horizontal)	
PFB306W-S+PFA151	PFB300C-S+PFA150	

Dimensions (mm[inch])

