

DH-SDT5X425-4Z4-QA-0832

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.

Technical Specification			Preset	300
Camera			Tour	8 (up to 32 presets per tour)
Image Sensor	Panorama: 1/1.8"" CMOS Detail: 1/1.8"" CMOS		Scan	5
Pixel	Panorama: 4 MP		Power-off Memory	Yes
Pixei	Detail: 4 MP		Idle Motion	Preset; Scan; Tour
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	reico 1/D (auto recognition)
RAM	4 GB			Support human body, human face, motor vehicle and
Electronic Shutter Speed	Panorama: 1 s–1/30,000 s Detail: 1 s–1/30,000 s		Video Metadata	non-motor vehicle image capture and attributes extraction
Scanning System	Progressive Panorama:		IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
	Color: 0.001 lux@F1.6 B/W: 0.0001 lux@F1.6		Face Recognition	Yes
Min. Illumination	Detail: Color: 0.001 lux@F1.6 B/W: 0.0001 lux@F1.6 0 lux (IR light on)		Video	
			Video Compression	H.264H; H.264B; Smart H.265+; H.265; MJPEG(Sub Stream); Smart H.264+; H.264M
Illumination Distance	Panorama (white light): 30 m (98.43 ft) Detail (IR light):		Streaming Capability	3 streams
	100 m (328.08 ft)			Panorama: 4M (2688 × 1520): 4M (2560 × 1440): 1080p (1920 ×
Illuminator On/Off Control	Panorama: Zoom Prio; Manual; Auto; Off Detail: Zoom Prio; Manual; Auto; Off		Resolution	4M (2688 × 1520); 4M (2560 × 1440); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288) Detail:
Illuminator Number	Panorama: 4 white lights Detail: 4 IR lights			4M (2688 × 1520); 4M (2560 × 1440); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576); VGA (640× 480); CIF (352 × 288)
Lens	Lens		Video Frame Rate	Panoramic: Main stream: 4M/1080p/1.3M/720p
Focal Length	Panorama: 8 mm-32 mm Detail: 5.4 mm-135 mm Panorama: F1.6 Detail: F1.6-F4.0			(1–25/30 fps) Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p/CIF (1–25/30 fps)
Max. Aperture				Detail: Main stream: 4M/1080p/1.3M/720p (1–25/30 fps)
Field of View	Panorama: H: 42°–15°; V: 23°–8°; D: 49°–17° Detail: H: 58°–3.5°; V: 35°–2°; D: 64°–4°			Sub stream 1: D1/VGA/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p/CIF (1–25/30 fps)
Optical Zoom	Panorama: 4× Detail: 25×		Bit Rate Control	CBR; VBR
Focus Control	Auto; Semi-Auto; Manual		Video Bit Rate	H.264: 512 Kbps–13056 Kbps H.265: 204 Kbps–7936 Kbps
Close Focus Distance	Panorama: 2.5 m–6 m (8.20 ft–19.69 ft) Detail: 0.5 m–7 m (1.64 ft–22.97 ft)		Day/Night	Panorama: Auto (ICR) Detail: Auto (ICR)
Iris Control	Panorama: Auto Detail: Auto		BLC	Yes
	Detect Observe Recognize	Identify	WDR	Panorama: 120 dB Detail: 120 dB
	Panorama: Panorama: Panorama:	Panorama:	HLC	Yes
DORI Distance	400 m 159.9 m 79.9 m (1,312.34 ft) (524.61 ft) (262.14 ft) Detail: Detail: Detail: 1,724 m 690 m 345 m (5,656.17 ft) (2,263.78 ft) (1,131.89 ft)	39.8 m (130.58 ft) Detail: 172 m (564.30 ft)	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
PTZ			Gain Control	Auto; Manual
	Panorama:		Noise Reduction	2D NR; 3D NR
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: 0° to 30°		Motion Detection	Yes
	Detail: Pan: 0° to 305° Tilt: –10° to 90°		Region of Interest (RoI)	Yes
Manual Control Speed	Panorama: Pan: 0.1°/s–100°/s; Tilt: 0.1°/s–25°/s		Defog	Electronic
Manual Control Speed	Detail: Pan: 0.1°/s-400°/s; Tilt: 0.1°/s-200°/s	's	Digital Zoom	16×
Preset Speed	Panorama: Pan: 100°/s; Tilt: 50°/s Detail: Pan: 360°/s; Tilt: 200°/s		Image Rotation	180°

S/N Ratio	Panorama: \geq 55 dB Detail: \geq 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; PPP0E; 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-0832	4MP 25 Ordinary IR NETWORK PTZ CAMERA			
	DC36V/2.23A	Power Adapter			
Accessories	PFB306W-S	Wall Mount Bracket			
	PFA150	Pole Mount Bracket			
	PFB300C-S	Ceiling Mount Bracket			

Accessories

Included:





DC36V/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])

