



DH-SDT5X425-4Z4-WA-0832

4MP Starlight IR WizMind Network Dual-PTZ Camera





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

System Overview

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

Functions

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.

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.

Dual PTZ System

The Panorama camera and Detail camera of the dual PTZ system can be adjusted horizontally and vertically.

- · Dual PTZ system, dual vari-focal lens
- 1/1.8" 4Megapixel CMOS
- · Powerful 25x optical zoom
- Starlight technology
- · Max. 50/60 fps@4M
- Deep-learning-based auto tracking and perimeter protection
- · Support Hi-PoE
- · H.265 Encoding
- IP67

















Face Recognition

Once facial features 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 realtime face capture and comparison.

Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. There are four kinds of metadata supported by Dahua PTZ WizMind camera: Human face, human body, motor vehicle and non-motor vehicle metadata. 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 tripwire and intrusion), the detail camera will track them automatically.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

Interoperability

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

Technical Specification	on				Presets	300	
System			Tour	8 (up to 32 presets per tour)			
Image Sensor	Panorama: 1/1.8" CMOS Detail: 1/1.8" CMOS			Pattern	5		
Pixel	Panorama: 4MP			Scan	5		
	Detail: 4MP 2688 (H) x 1520 (V)			Speed Adjustment	Support		
Max. Resolution ROM	8 GB	520 (V)			Power-off Memory	Support	
RAM	4 GB				Idle Motion	Preset/Tour/Pattern/Scanning	
		/3 s–1/100000) s		Protocol	DH-SD Pelco-P/D (auto recognition)	
Electronic Shutter Speed	Detail: 1/1 s-	-1/100000 s			Artificial Intelligence		
Scanning System	Progressive Panorama: Color: 0.001	Lux@F1.6			Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes	
Min. Illumination	B/W: 0.0001 Detail: Color: 0.001 B/W: 0.0001 0 Lux (IR light	Lux@F1.6 Lux@F1.6 t on)			Perimeter Protection	extraction. Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.	
Illumination Distance		ft)—face recog			Face Recognition	Support	
mammation Distance		ft)—video meta nt): 100 m (328			Video		
Illuminator On/Off Control	Panorama: SmartIR/Manual/Off Detail: Zoom Prio/Manual/SmartIR/Off		Compression	H.265; H.264 Baseline Profile; H.264 Main Profile; H.264 High Profile; M-JPEG; Smart H.265; Smart H.264			
Illuminator Number	4 IR lights; 4	white lights			Streaming Capability	3 streams	
Lens Focal Length	Panorama: 8 Detail: 5.4 mi				Resolution	Panorama: 4M (2688 × 1520); 4M (2560 × 1440); 1080P (1920 × 1080); 960P (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240) Detail: 4M (2688 × 1520); 4M (2560 × 1440); 1080P (1920 ×	
Max. Aperture	F1.6 Detail: F1.6-F4.0					1080); 960P (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240) Main stream: 4M/1080P/1.3M/720P (1–50/60 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°			Frame Rate	Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080P/1.3M/720P/CIF (1–25/30 fps)		
Optical Zoom	Panorama: 4x Detail: 25x		Bit Rate Control	Variable/Constant			
Focus Control	Auto/Semi-Auto/Manual			Bit Rate	H.264: 2816 Kbps–13056 Kbps H.265: 1024 Kbps–7936 Kbps		
Close Focus Distance		.5 m–6 m (8.20 –7 m (1.64 ft–2			Day/Night	Panorama: Auto (ICR) Detail: Auto (ICR)	
Iris Control	Panorama: A Detail: Auto	uto			BLC	Support	
	Detect	Observe	Recognize	Identify	WDR	Support	
DORI Distance	Panorama: 400 m (1312.34 ft) Detail: 1688 m (5538.06 ft)	Panorama: 160 m (524.93 ft) Detail: 675 m (2214.57 ft)	Panorama: 80 m (262.47 ft) Detail: 337 m (1105.64 ft)	Panorama: 40 m (131.23 ft) Detail: 168 m (551.18 ft)	HLC White Balance	Support 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	(5550.0011)	(2214.3711)	(1103.0411)	(331.1011)	Gain Control	Auto/Manual	
1 1 4	Panorama:				Noise Reduction	2D/3D	
Pan/Tilt Range		endless; Tilt: 0)°–30°		Motion Detection	Support	
,	Pan: 0°–305° (the angle between two cameras: -125° to +180°); Tilt: -3°–90°				Region of Interest (RoI)	Support	
Manual Control Speed	Panorama: Pan: 0.1°/s–100°/s; Tilt: 0.1°/s–25°/s			Image Stabilization	Electronic		
·		0.1°/s–400°/s; T an: 100°/s; Tilt:)*/s	Defog	Electronic	
Preset Speed		860°/s; Tilt: 200			Digital Zoom	16x	

Flip	0°/180°		
S/N Ratio	Panorama: ≥ 55 dB		
	Detail: ≥ 55 dB		
Audio	C 711- C 711- C 720 AAC MDFC2 Lavar2 C 722		
Compression	G.711a; G.711mu; G.726; AAC; MPEG2-Layer2; G.722 G.729		
Network			
Ethernet	RJ-45 (10/100Base-T)		
Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnF SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; SNMP v1/v2c/v3 (MIB-2); RTCP		
Interoperability	ONVIF; CGI		
Streaming Method	Unicast/Multicast		
User/Host	20 (total bandwidth 64 MB)		
Storage	Imou Cloud; FTP; Micro SD card (256 GB)		
Browser	IE7 and later versions Chrome 45 and earlier versions Firefox 52 and earlier versions Safari 12 and earlier versions		
Management Software	SmartPSS; DSS; NVR		
Certification			
Certifications	FCC: 47 CFR FCC Part15, Subpart B, Class A LVD: EN 62368-1:2014+A11:2017 EMC: EN 55032:2015, Class A EN 61000-3-2: 2014 EN 61000-3-3: 2013 EN 55024:2010+A1: 2015 EN 55035: 2017 EN 50130-4: 2011+A1: 2014		
Port			
Audio Input	1 (LINE IN; bare wire)		
Audio Output	1 (LINE OUT; bare wire)		
Two-way Audio	Support		
Alarm I/O	2/1 Digital input: 0–5V DC		
Alarm Linkage	Capture; preset; tour; pattern; SD card record; trigger digital output; send email		
Alarm Event	Motion/tampering detection; audio detection; netword disconnection detection; IP conflict detection; memoricard state detection; memory space detection; vandalization detection; illegal access detection		
Power			
Power Supply	DC 36V/2.23A ± 25% Hi-PoE		
Power Consumption	Basic: 21W Max.: 40W (PTZ, zoom, focus, IR light, white light, and smart plan enabled)		
Environment			
Environment Operating Temperature	-40°C to +70°C (-40°F to +158°F)		
2	-40°C to +70°C (-40°F to +158°F) ≤ 95%		

Structure

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				
Type	Model	Description		
	DH-SDT5X425-4Z4- WA-0832	4MP Starlight IR WizMind Network Dual-PTZ Camera, PAL		
Dual-PTZ Camera	DH-SDT5X425N- 4Z4-WA-0832	4MP Starlight IR WizMind Network Dual-PTZ Camera, NTSC		
	SDT5X425-4Z4- WA-0832	4MP Starlight IR WizMind Network Dual-PTZ Camera, PAL		
	SDT5X425N-4Z4- WA-0832	4MP Starlight IR WizMind Network Dual-PTZ Camera, NTSC		
	E080-1A360223B3	Power Adapter		
Accessories	DH-PFB306W-S	Wall Mount Bracket		
	DH-PFA150	Pole Mount Bracket		
	DH-PFB300C-S	Ceiling Mount Bracket		

Accessories

Included:







DH-PFB306W-S Wall Mount Bracket

Optional:



DH-PFA150 Pole Mount Bracket



DH-PFB300C-S Ceiling Mount Bracket

Wall Mount	Pole Mount	Ceiling Mount
PFB306W-S	PFA150+PFB306W-S	PFB300C-S



Dimensions(mm[inch])

