



DH-SDT5X425-4Z4-WA-2812

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 0.005 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.





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Technical Specification Camera Panorama: 1/1.8" CMOS Image Sensor Detail: 1/1.8" CMOS Panorama: 4MP Pixel Detail: 4MP 2688 (H) x 1520 (V) Max. Resolution ROM 8 GB 4 GB RAM Panorama: 1/3 s-1/100000 s **Electronic Shutter Speed** Detail: 1/1 s-1/100000 s Scanning System Progressive Panorama: Color: 0.001 Lux@F1.6 B/W: 0.0001 Lux@F1.6 Min. Illumination Detail: Color: 0.001 Lux@F1.6 B/W: 0.0001 Lux@F1.6 0 Lux (IR light on) Panorama (white light): 20 m (65.62 ft)-face recognition Illumination Distance 30 m (98.43 ft)-video metadata Detail (IR light): 100 m (328.08 ft) Panorama: SmartIR/Manual/Off Illuminator On/Off Control Detail: Zoom Prio/Manual/SmartIR/Off Illuminator Number 4 IR lights; 4 white lights Lens Panorama: 2.8 mm-12 mm Focal Length Detail: 5.4 mm-135 mm Panorama: F1.6 Aperture Detail: F1.6-F4.0 Panorama: H: 99.2°–45.8°; V: 59.7°–27°; D: 110.4°–51.7° Field of View Detail: H: 58°-3.5°; V: 35°-2°; D: 64°-4° Panorama: 4x **Optical Zoom** Detail: 25x **Focus Control** Auto/Semi-Auto/Manual 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) Panorama: Auto Iris Control Detail: Auto Observe Identify Detect Recognize Panorama: Panorama: Panorama: Panorama: **DORI** Distance 128 m 51 m 25 m 12 m (419.95 ft) (82.02 ft) (167.32 ft) (39.37 ft) Detail: Detail: Detail: Detail: 1688 m 675 m 337 m 168 m (5538.06 ft) (2214.57 ft) (1105.64 ft) (551.18 ft) PTZ Panorama: Pan: 0°-360° endless; Tilt: 0°-30° Pan/Tilt Range Detail: Pan: 0°-305° (the angle between two cameras: -125° to +180°); Tilt: -3°-90° 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

Panorama: Pan: 100°/s; Tilt: 50°/s

Detail: Pan: 360°/s; Tilt: 200°/s

Preset Speed

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Digital Zoom 16x	Defog	Electronic	
	Digital Zoom	16x	

Wiz Mind | DH-SDT5X425-4Z4-WA-2812

Flip	0°/180°		
S/N Ratio	Panorama: ≥ 55 dB Detail: ≥ 55 dB		
Audio			
Compression	G.711a; G.711mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729		
Network			
Ethernet	RJ-45 (10/100Base-T)		
Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; SNMPv1/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; network disconnection detection; IP conflict detection; memory card 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			
Operating Temperature	-40°C to +70°C (-40°F to +158°F)		
Operating Humidity	≤ 95%		
Protection	IP67; TVS 8000V lightning protection; surge protection; voltage transient protection		

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			
Туре	Model	Description	
Dual-PTZ Camera	DH-SDT5X425-4Z4- WA-2812	4MP Starlight IR WizMind Network Dual-PTZ Camera, PAL	
	DH-SDT5X425N- 4Z4-WA-2812	4MP Starlight IR WizMind Network Dual-PTZ Camera, NTSC	
	SDT5X425-4Z4- WA-2812	4MP Starlight IR WizMind Network Dual-PTZ Camera, PAL	
	SDT5X425N-4Z4- WA-2812	4MP Starlight IR WizMind Network Dual-PTZ Camera, NTSC	
DH-PFB3(Accessories	E080-1A360223B3	Power Adapter	
	DH-PFB306W-S	Wall Mount Bracket	
	DH-PFA150	Pole Mount Bracket	
	DH-PFB300C-S	Ceiling Mount Bracket	

Accessories

Included:



E080-1A360223B3 Power Adapter

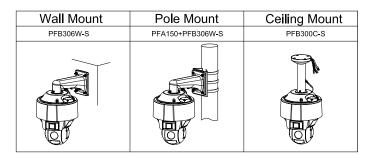
Optional:



DH-PFA150 Pole Mount Bracket DH-PFB306W-S Wall Mount Bracket

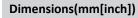


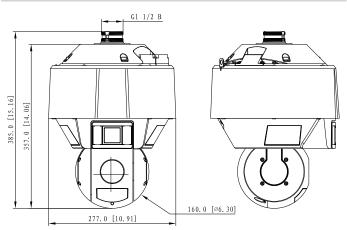
DH-PFB300C-S Ceiling Mount Bracket





Wiz Mind | DH-SDT5X425-4Z4-WA-2812





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