

DH-SDT5X425-4Z4-FAJG-2812

4MP 25x Starlight IR WizMind Network Dual-PTZ Camera for Traffic



Wiz Mind

Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,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

With its high-performance GPU chip, the device uses multiple deep learning algorithms to analyze data from complex scenes, and take snapshots of vehicles that are illegally parked. It has a dual-PTZ control system. The embedded panoramic and detail cameras can be rotated horizontally and vertically. The panoramic camera also links to the detail camera to perform tour, allowing you to configure multiple presets to increase coverage.

The device can be connected to 2 channel alarm inputs and 1 channel alarm output. Voice prompts are also broadcasted when an external speaker is connected to the device, providing warnings for drivers and allowing license plate numbers to be read out loud when a vehicle is illegally parked.

Functions

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, a flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality videos without straining the network. Smart H.265+ technology outranks standard H.265 video compression, reducing bit rate and storage requirements by up to 70%.

- Dual PTZ system, dual vari-focal lens.
- 1/1.8" 4Megapixel CMOS.
- Powerful 25x optical zoom.
- Starlight technology.
- Max. 25/30 fps@4M.
- H.265 encoding.
- IP67.
- · Illegal parking detection and checkpoint capture.



Illegal Parking Capture

Empowered by deep learning algorithms, the device automatically detects and triggers alarms for illegal parking targets, and identifies vehicle attributes in designated areas. The camera supports zooming, capturing, and recognizing license plate numbers, vehicle types, vehicle colors, license plate colors and other motor vehicle attributes. The combination of long shots, close shots and detailed license plate snapshots form a complete chain of evidence on illegal behavior.

Dual-PTZ System

Both the panorama camera and detail camera of the Dual-PTZ system can be moved horizontally and vertically.

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

Scene

The device can be widely used in a variety of scenes, such as urban roads, elevated roads, and expressways, that require a wide monitoring range and that need to collect evidence for illegal parking.

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

Camera					
Image Sensor		Panorama: 1/1.8" CMOS Detail: 1/1.8" CMOS			
Max. Resolution		2688 (H) x 1520 (V)			
Effective Pixels		Panorama: 4MP Detail: 4MP			
ROM		8 GB			
RAM		4 GB			
Electronic Sh	utter Speed	Panorama: 1/3 s-1/100000 s Detail: 1/1 s-1/100000 s			
Scanning Mo	de	Progressive			
Min. Illumination		Panorama: Color: 0.001 Lux@F1.6 B/W: 0.0001 Lux@F1.6 Detail: Color: 0.001 Lux@F1.6 B/W: 0.0001 Lux@F1.6 O Lux (IR light on)			
Illumination Distance		Panorama (white light): 30 m (98.43 ft) Detail (IR light): 100 m (328.08 ft)			
Illuminator On/Off Control		Panorama: Zoom Prio; Manual; Auto; Off Detail: Zoom Prio; Manual; Auto; Off			
Illuminator Number		Panorama: 4 white lights Detail: 4 IR lights			
Lens	Lens				
Focal Length		Panorama: 2.8 mm–12 mm Detail: 5.4 mm–135 mm			
Max. Apertur	e	Panorama: F1.3–F2.0 Detail: F1.6–F4.0			
Field of View		Panorama: H: 99.2°-45.8°; V: 59.7°-27°; D: 110.4°-51.7° Detail: H: 58°-3.5°; V: 35°-2°; D: 64°-4°			
Optical Zoom	1	Panorama: 4x Detail: 25x			
Focus Contro	I	Auto/Semi-Auto/Manual			
Close Focus [Distance	Panorama: 1 m–2.5 m (3.28 ft–8.20 ft) Detail: 0.5 m–7 m (1.64 ft–22.97 ft)			
Iris Control		Panorama: Auto Detail: Auto			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	Panorama	129 m (423.23 ft)	51.3 m (168.31 ft)	25.4 m (83.33 ft)	12.2 m (40.03 ft)
	Detail	1688 m (5538.06 ft)	675 m (2214.57 ft)	337 m (1105.64 ft)	168 m (551.18 ft)
PTZ					
Pan/Tilt Range		Panorama: Pan: 0°–360° endless; Tilt: 0°–30° Detail: Pan: 0°–305° (the angle between two cameras: -125° to +180°); Tilt: -10°–180°			

Panorama: Pan: 0.1°/s–100°/s; Tilt: 0.1°/s–25°/s 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

Manual Control Speed

Preset Speed

Illegal Parking Capturefeature; support vehicle type, color, logo, series, license plate, plate color and other attribute recognition; support panorama-detail linkage capture, and multi- scenario tour; supports panoramic fixed capture, while detail camera capturing illegal parking, and independent multi-scenario tour.Checkpoint CaptureDetects events for up to 2 lanes. Detects wrong-way driving and traffic congestion. Recognizes motor vehicle attributes, including license plates, plate color, vehicle color, and vehicle type.Intelligence NoteANPR of illegally parked vehicle: Supports adaptively loading its corresponding license plate recognition algorithm according to the area selected; integrate overseas general recognition and algorithms to support license plate recognition algorithms tor UAE, Saudi Arabia, Morocco, Oman, Egypt, Iraq, and JordanVideoSmart H.265+;H.265;Smart H.264+;H.264;H.264B; H.264H;MJPEG(Sub Stream)Streaming Capability3 StreamsResolutionPanorama: 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: 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: AM (2688 × 1520); 4M (2560 × 1440); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288) Detail:Video Erame BatePanoramic: Main stream: 4M/1080p(113M/720p (1- 25/30 fps) Sub stream 2: 1080p/13M/720p (1- 25/30 fps) Sub stream 2: 1080p/13M/720p (1- 25/30 fps) Sub	Presets	300
Power-off MemoryYesIdle MotionPreset;Tour;ScanPT2 ProtocolDH-SD Pelco-P/O(Auto recognition)IntelligenceExplore range radius: 4 m-60 m (13 12 ft-196.85 ft) (panoramic linkage mode), 20 m (393.70 ft) (detail cameral); support adaptive multi-scenario tour detection; 2-6 snapshots can be set, and the capture interval can be set between each capturing; snapshot type includes ling-distance, medium-distance, close-distance, and plate refarture; support delicit type, color, logo, series, license plate, index other attribute recognition; support panorama-detail linkage capture, and multi-scenario tour;Checkpoint CaptureDetects events for up to 2 lanes. Detects wrong-way driving and traffic congestion. Recognizes motor vehicle attributes, including license plate recognition algorithm according to the arras selected; integrate oversas agenite recognition algorithm agenithm sto support lineare plate recognition algorithm according to the arras selected; integrate oversas agenite recognition algorithm sto support lineare plate recognition algorithm scording to the arras selected; integrate oversas agenite recognition algorithm in EU; integrate special license plate recognition algorithm in EU; integrate special license plate recognition algorithm in EU; integrate special license plate recognition algorithms for UAE, Saudi Arabia, Morocco, Oman, Egypt, Iraq, and indvaluyai apecial license plate recognition algorithms for UAE, Saudi Arabia, Morocco, Oman, Egypt, Iraq, and indvaluyai apecial license plate recognition algorithms for UAE, Saudi Arabia, Morocco, Oman, Egypt, Iraq, and indvaluyai apecial license plate recognition algorithms for UAE, Saudi Arabia, Morocco, Oman, Egypt, Iraq, and indvaluyai apecial license plate recognition algorithms for UAE, Saudi Arabia, Morocco, Oman, Egypt,	Tour	8 (up to 32 preset per tour)
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Day/Night Detail: Auto (ICR)	Video Bit Rate	
BLC Yes	Day/Night	
	BLC	Yes

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

WDR	Panoramic: 120dB Detail: 120dB	
HLC	Yes	
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	
Gain Control	Auto/Manual	
Noise Reduction	2D NR; 3D NR	
Motion Detection	Yes	
Region of Interest (RoI)	Yes	
Defog	Electronic	
Digital Zoom	16x	
Image Rotation	180°	
S/N Ratio	Panorama: ≥ 55 dB Detail: ≥ 55 dB	
Certification		
Certification	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014"	
Audio		
Audio Compression	PCM; G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G722.1; G729	
Port		
Audio In	1 channel (LINE IN, bare wire)	
Audio Out	1 channel (LINE OUT,bare wire)	
Alarm I/O	2/1	
Network		
Network Port	RJ-45 (10/100 Base-T)	
Network Protocol	HTTP;HTTPS;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDN S;IPv6;802.1x;Qos;FTP;UPnP;ICMP;SNMP;SNMPv1/v2c/ v3(MIB-2);IGMP;ARP;RTCP;RTP;PPPoE;RTMP;TCP	
Interoperability	ONVIF;CGI	
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	Cyber City	
Mobile Client	iOS; Android	
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	
Construction		
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	Part Number	Description
WizMind	DH-SDT5X425-4Z4- FAJG-2812	4MP 25x Starlight IR WizMind Network Dual-PTZ Camera for Traffic
	DC36V/2.23A	Power Adapter
	DED 20 CW/ C	Mall Marine Desident

	DC36V/2.23A	Power Adapter
	PFB306W-S	Wall Mount Bracket
Accessories	PFA151	Corner Mount Bracket
	PFA150	Pole Mount Bracket
	PFB300C-S	Ceiling Mount Bracket

Accessories

Included:







PFB306W-S Wall Mount Bracket

Optional:



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PFA151 Corner Mount Bracket

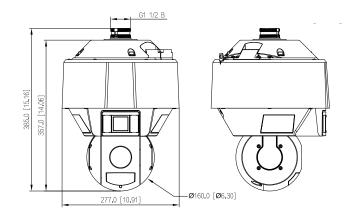
PFA150 Pole Mount Bracket

PFB300C-S Ceiling Mount Bracket

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

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])



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