

DH-SDT5X425-4Z4-FAJG-PV-0832

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





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 through the built-in speaker, providing warnings for drivers and allowing license plate numbers to be read out loud when a vehicle is illegally parked.

Functions

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.

- · 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.









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%.

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.

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.

Technical Specification							Presets	300
Camera							Tour	8(up to 32 preset per tour)
Image Sensor		Panorama: 1/1.8" CMOS Detail: 1/1.8" CMOS					Pattern	5
Max. Resolution		2688 (H) x 1520 (V)					Scan	5
Effective Pixels		Panorama: 4MP Detail: 4MP					Power-off Memory	Yes
ROM		8 GB					Idle Motion	Preset;Tour;Scan
RAM		4 GB					PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)
		Panorama: 1/3 s–1/100000 s					Intelligence	
Electronic Shutter Speed		Detail: 1/1 s-1/100000 s Progressive					Illegal Parking Capture	Capture range radius: 15 m–80 m (49.21 ft–262.47 ft) (panoramic linkage mode), 120 m (393.70 ft) (detail camera); support adaptive multi-scenario tour detection; supports voice prompts, reading license plate numbers out loud when a vehicle is illegally parked. 2–6 snapshots can be set, and the capture interval can be set between each capturing; snapshot type includes long-distance, medium-distance, close-distance, and plate feature; support vehicle type, color, logo, series, license plate, plate color and other attribute recognition; support panorama-detail linkage capture, and multiscenario tour; supports panoramic fixed capture, while detail camera capturing illegal parking, and independent multi-scenario tour.
Scanning Mode 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) Panorama: Zoom Prio; Manual; Auto; Off						
Illuminator On/Off Control		Detail: Zoom Prio; Manual; Auto; Off Panorama: 4 white lights						Detects events for up to 2 lanes.
Illuminator Number Lens		Detail: 4 IR lights					Checkpoint Capture	Detects wrong-way driving and traffic congestion. Recognizes motor vehicle attributes, including license plates, plate color, vehicle color, and vehicle type.
Focal Length		Panorama: 8 mm–32 mm Detail: 5.4 mm–135 mm					Intelligence Note	ANPR of illegally parked vehicle: Supports adaptively loading its corresponding license plate recognition algorithm according to the area selected; integrate overseas general recognition algorithms to support license plate recognition containing letters and numbers; integrate special license plate recognition algorithm in EU; integrate Singapore and Malaysia special license plate recognition algorithms; integrate special license plate recognition algorithms for UAE, Saudi Arabia, Morocco, Oman, Egypt, Iraq, and Jordan
Max. Aperture		Panorama: F1.6 Detail: F1.6-F4.0						
Field of View		Panorama: H: 42°–15°; V: 23°–8°; D:49°–17° Detail: H: 58°–3.5°; V: 35°–2°; D: 64°–4°						
Optical Zoom		Panorama: 4x Detail: 25x					Video	
Focus Contro	ol	Auto/Semi-Auto/Manual					Video Compression	Smart H.265+;H.265;Smart H.264+;H.264;H.264B;H.264H
Close Focus	Close Focus Distance		5 m–6 m (8.20 -7 m (1.64 ft–22				Streaming Capability	;MJPEG(Sub Stream) 3 Streams
Iris Control		Panorama: Auto Detail: Auto					Panorama:	
	Lens	Detect	Observe	Recognize	Identify		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: 4M (2688 × 1520); 4M (2560 × 1440); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)
DORI Distance	Panorama	386 m (1,266.40 ft)	155 m (508.53 ft)	77 m (252.62 ft)	39 m (127.95 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:					Video Frame Rate	Panoramic: Main stream: 4M/1080p/1.3M/720p (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) Detail: Main stream: 4M/1080p/1.3M/720p (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)
		Pan: 0°–305° (the angle between two cameras: -125° to +180°); Tilt: -10°–180°					Bit Rate Control	CBR/VBR
Manual Control Speed		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					Video Bit Rate	H.264: 512 Kbps-13056 Kbps H.265: 204 Kbps-7936 Kbps
Preset Speed		Panorama: Pan: 100°/s; Tilt: 50°/s Detail: Pan: 360°/s; Tilt: 200°/s					Day/Night	Panorama: Auto (ICR) Detail: Auto (ICR)

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BLC	Yes		
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		
Certifications			
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;built-in speaker (mutually exclusive)		
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%		

Power Consumption	Basic: 23.5 W Max.: 45 W (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% (RH)		
Protection	IP67; TVS 8000 V lightning protection; surge protection; voltage transient protection		
Construction			
Dimensions	565 mm × 280 mm × 385 mm (22.24" × 11.02" × 15.16 (L × W × H)		
Net Weight	10.9 kg (24.03 lb)		
Gross Weight	16 kg (35.27 lb)		

Ordering Information							
Туре	Part Number	Description					
WizMind	DH-SDT5X425-4Z4- FAJG-PV-0832	4MP 25x Starlight IR WizMind Network Dual-PTZ Camera for Traffic					
	DC36V/2.23A	Power Adapter					
	PFB310W	Wall Mount Bracket					
Accessories	PFA151	Corner Mount Bracket					
	PFA150	Pole Mount Bracket					
	PFB300C-S	Ceiling Mount Bracket					

Accessories

Included:



DC36V/2.23A Power Adapter



PFB310W Wall Mount Bracket

Optional:



PFA151 Corner Mount Bracket



PFA150 Pole Mount Bracket



PFB300C-S Ceiling Mount Bracket

Wall Mount PFB310W PFB310W+PFA150 PFB310W+PFA151 Ceiling Mount PFB300C-S PFB300C-S+PFA150 Corner Mount PFB310W+PFA151 PFB300C-S PFB300C-S+PFA150

Dimensions (mm[inch])





