

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							PTZ	
Camera Image Sensor		Panorama: 1/1.8" CMOS Detail: 1/1.8" CMOS					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°
Max. Resolution		2688 (H) x 1520 (V) Panorama: 4MP					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
Effective Pixels		Detail: 4MP					Preset Speed	Panorama: Pan: 100°/s; Tilt: 50°/s
ROM		8 GB					•	Detail: Pan: 360°/s; Tilt: 200°/s
RAM		4 GB					Presets	300
Electronic Shutter Speed		Panorama: 1/3 s-1/100000 s Detail: 1/1 s-1/100000 s					Tour	8(up to 32 preset per tour)
Scanning Mode		Progressive					Pattern	5
	Min. Illumination		Panorama: Color: 0.001 Lux@F1.6 B/W: 0.0001 Lux@F1.6 Detail:				Scan Power-off Memory	5 Yes
Min. Illumina							Idle Motion	Preset;Tour;Scan
			_ux@F1.6 Lux@F1.6					DH-SD
		O Lux (IR light on)					PTZ Protocol	Pelco-P/D(Auto recognition)
Illumination Distance		Panorama (white light): 30 m (98.43 ft) Detail (IR light): 100 m (328.08 ft)					Intelligence	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;
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					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	
Lens							Illegal Parking Capture	set between each capturing; snapshot type includes long-distance, medium-distance,
Focal Length		Panorama: 8 mm–32 mm Detail: 5.4 mm–135 mm						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.
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°						Detects events for up to 2 lanes.
Optical Zoom		Panorama: 4x Detail: 25x					Checkpoint Capture	Detects wrong-way driving and traffic congestion. Recognizes motor vehicle attributes, including license plates, plate color, vehicle color, and vehicle type.
Focus Contro	ol	Auto/Semi-Auto/Manual						ANPR of illegally parked vehicle:
Close Focus	Close Focus Distance		5 m–6 m (8.20 -7 m (1.64 ft–22				Intelligence Note	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
Iris Control	Iris Control		uto					
	Lens	Detect	Observe	Recognize	Identify			Malaysia special license plate recognition algorithms; integrate special license plate recognition algorithms for UAE, Saudi Arabia, Morocco, Oman, Egypt, Iraq, and Jordan
	Panorama	386 m (1,266.40 ft)	155 m (508.53 ft)	77 m (252.62 ft)	39 m (127.95 ft)			
DORI	Detail	1688 m (5538.06 ft)	675 m (2214.57 ft)	337 m (1105.64 ft)	168 m (551.18 ft)		Video	
Distance		t, Observe, Rec	ognize, Identify	r) is a standard	system		Video Compression	Smart H.265+;H.265;Smart H.264+;H.264;H.264B;H.264H ;MJPEG(Sub Stream)
	distinguish pe	for defining the ersons or object	s within a cove	red area. The n	umbers in		Streaming Capability	3 Streams
this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.			Resolution	Panorama: 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)

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)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 512 Kbps–13056 Kbps H.265: 204 Kbps–7936 Kbps		
Day/Night	Panorama: Auto (ICR) Detail: Auto (ICR)		
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% Hi-PoE	
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)	

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			

16 kg (35.27 lb)

Gross Weight

Accessories

Included:



DC36V/2.23A Power Adapter



PFB310W Wall Mount Bracket

Optional:



PFA151 Corner Mount Bracket

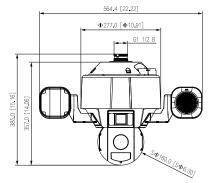


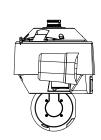
PFA150 Pole Mount Bracket

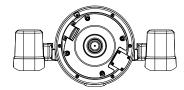


PFB300C-S Ceiling Mount Bracket

Dimensions (mm[inch])







Wall Mount	Polo Mount(Vertical)	Corner Mount	
PFB310W	PFB310W+PFA150	PFB310W+PFA151	
Ceiling Mount	Polo Mount(Horizontal)		
PFB300C=S	PFB300C=S+PFA150		