

DH-SDT7C424-4F-ZBZJ-APV-0400

4 MP 24x Startlight IR WizMind Network Panoramic + PTZ Camema



Wiz Mind

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

With its industry-leading deep learning algorithm, the camera has advanced monitoring functions and strong detection capabilities. It is equipped with GPU chip and Smart Codec (H.265), making it highly efficient at encoding for improved video quality with reduced bandwidth and storage requirements. The camera supports smart tracking, seeing both the panorama (complete) and detail (clear) with one product. It also supports monitoring and detection of multiple perimeters, and can perform large-scale detection through its 4 mm fixed focal. Detection is combined with sound and light alarm, broadcasting multiple warning recordings, which can be applied to different scenarios.

Functions

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.

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.

- Panoramic: 1/1.8" 4 Megapixel F1.0 STARVIS™ CMOS
 Detail: 1/2.8" 4 Megapixel STARVIS™ CMOS
- · 24× optical zoom, 16× digital zoom
- · Starlight+ technology
- Max. 25/30 fps@4 MP
- IR distance up to 150 m
- Auto-tracking
- · Perimeter protection
- · Sound and light alarm

















Smart Tracking

The camera supports smart tracking, seeing both the panorama (complete) and detail (clear) with one product.

Smart Illumination Technology

With its built-in IR illuminator (150 m), the camera balances and evens out the effect of illuminator by using an algorithm that matches zoom rate with IR illuminator power.

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, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Scenes

The camera can be widely used in complex security monitoring scenes such as the periphery of residential areas, entrances and exits, subway entrances, sidewalks, pedestrian zones, roads, lookout post, parks, scenic areas, streets, stations, and perimeters.

Technical Specification				Tour	8 (up to 32 presets per tour)	
Camera				Pattern	5	
Image Sensor	Panoramic: 1/1.8" CMOS Detail: 1/2.8" CMOS				Scan	5
Pixel	Panoramic: 4 MP				Power-off Memory	Yes
	Detail: 4 MP Panoramic: 2560 (H) × 1440 (V)				Idle Motion	Preset, Tour, Scan, Track
Max. Resolution	Detail: 2560 (H) × 1440 (V)				PTZ Protocol	DH–SD Pelco–P/D (auto recognition)
ROM	Panoramic: 4 GB Detail: 256 MB				Intelligence	
RAM	Panoramic: 1 GB Detail: 1 GB				Face Detection	Yes
Electronic Shutter Speed	Panoramic: 1/1 s-1/30,000 Detail: 1/1 s-1/30,000 s	S			IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking
Scanning System	Panoramic:	Panoramic:			Auto Tracking	Yes
	Color: 0.001 lux@F1.0 B/W: 0.0001 lux@F1.0 0 lux (white light on) Detail: Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6				Video	
Min. Illumination					Video Compression	H.265, H.264B, H.264M, H.264H ,MJPEG, smart H.265, smart H.264
	0 lux (IR light on)				Streaming Capability	3 streams
Illumination Distance	30 m (98.44 ft) (white light) 150 m (49.13 ft) (IR)					Panoramic: 4M (2560 X 1440) , 1080p (1920 × 1080) , 1.3M (1280 × 960) , 720p (1280 × 720) , D1 (704 × 576/704 × 480) , CIF
Illuminator On/Off Control Illuminator Number	Zoom Prio; manual; auto; off Panoramic: 4x white light Detail: 2x white light; 4x IR			Resolution Default Bit Rate with	(352 × 288/352 × 240) Detail: 4M (2560 × 1440) , 1080p (1920×1080) , 1.3M (1280 × 960) , 720p (1280 ×720) , D1 (704 × 576/704 × 480) , CIF (352 × 288/352 × 240)	
Lens						
Focal Length	Panoramic: 4 mm				Default Resolution	3072 Kbps (2560 × 1440, H.265)
Max. Aperture	Detail: 4.8 mm-115 mm Panoramic: F1.0 Detail: F1.6-F3.6			Video Frame Rate	Panoramic: Main stream: 4M/1080p/1.3M/720p (1–25/30 fps) sub stream 1: D1/CIF (1–25/30 fps) sub stream 2: 720p/CIF (1–25/30 fps) Detail: Main stream: 4M/1080p/1.3M/720p (1–25/30 fps) sub stream 1: D1/CIF (1–25/30 fps) sub stream 2: 720p/CIF (1–25/30 fps)	
Field of View	Panoramic: H: 95°; V: 52.5°; D: 116° Detail: H: 53.1°–3.4°; V: 30.4°–1.95°; D: 59.3°–3.9°					
Optical Zoom	24×				Bit Rate Control	Constant Bite Rate; Variable Bite Rate
Focus Control	Auto; Semi-Auto; Manual				Video Bit Rate	H. 265: 1024 Kbps-7936 Kbps
Close Focus Distance	Panoramic: 0.2 m (0.66 ft) Detail: 0.5 m–5 m (1.64 ft–16.4 ft)				Day/Night	Panoramic: Color/B/W Detail: Auto (ICR)/Color/B/W
Iris Control	Panoramic: Fixed Detail: Auto; manual; fixed				BLC	Panoramic: Yes Detail: Yes
	Detect Observe	Recognize	Identify		WDR	Yes
DORI Distance	Panorama: Panorama: 102 m 40.8 m	Panorama: 20.4 m	Panorama: 10.2 m		HLC	Panoramic: Yes Detail: Yes
	(334.66 ft) (133.86 ft) (66.9 ft) Detail: Detail: Detail: 1,928 m 771.2 m 385.6 m (6325.46 ft) (2530.18 ft) (1265.09 ft)	(33.46 ft) Detail: 192.8 m (632.55 ft)	White Balance	Panoramic: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp Detail: Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp		
PTZ				Gain Control	Panoramic: Auto; manual Detail: Auto; manual	
Pan/Tilt Range	- Thi: -20 to +30 , auto hip 180				Noise Reduction	Panoramic: 2D NR; 3D NR Detail: 2D NR; 3D NR
Manual Control Speed	Pan: 0.1°-160°/s Tilt: 0.1°-120°/s				Motion Detection	Yes
Preset Speed	Pan: 240°/s; Tilt: 200°/s				Region of Interest (RoI)	Yes
5	300					

Preset

Defog	Panoramic: Electronic Defog Detail: Electronic Defog	
Flip	180°	
S/N Ratio	≥ 55 dB	
Certification		
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: 47 CFR FCC Part15, Subpart B, Class A ANSI C63.4-2014	
Audio		
Audio Compression	G.711a; G.711Mu; G.726; MPEG2–Layer2; G722.1	
Network		
Network Port	RJ-45 (10/100 Base-T)	
Network Protocol	HTTP, HTTPS, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, IPv6, 802.1x, Qos, FTP, UPnP, ICMP, SNMP, SNMP 1/v2c/v3 (MIB-2), IGMP, ARP, RTCP, RTP, PPPoE, TCP	
Interoperability	ONVIF, CGI, Dahua SDK	
Streaming Method	Unicast/Multicast	
User/Host	20	
Storage	FTP; Micro SD card (128 GB)	
Browser	IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari	
Management Software	Smart PSS, DSS, NVR	
Mobile Client	IOS, Android, iPhone, iPad, Windows Phone	
Port		
Alarm I/O	2/1	
Audio I/O	1/1	
Two-way Audio	Yes	
Alarm Linkage	Capture; preset; tour; pattern; recording; triggering on- off value output; audio; sending email	
Alarm Event	Motion/tampering detection, audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection	
Power		
Power Supply	36 VDC/2.23 A ± 25% (included)	
Power Consumption	Basic: 20 W Max. (illuminator + heater + PTZ working + sound and light alarm): 45 W	
Environment		
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)	
Operating Humidity	≤ 95%	
Protection	IP66; TVS 6000 V lightning proof, surge protection and voltage transient protection	
Structure		
Casing	Plastic + aluminum alloy	
Product Dimensions	358 mm × Φ202 mm (14.09" × 7.95")	
Packaging Dimensions	510.0 mm × 312.0 mm × 312.0 mm (21.42" × 7.70" ×	

Net Weight	5.6 kg (12.35 lb)
Gross Weight	7.15 kg (15.77 lb)

Ordering Information					
Туре	Part Number	Description			
Network PTZ Camera	DH-SDT7C424-4F-ZBZJ- APV-0400	4 MP 24x Startlight White Light PTZ AI Network Camera			
	36 VDC/2.23 A	Power Adapter			
	PFB303W	Wall Mount			
	PFA114	Mount Adapter			
	PFB300C+PFA150	Pole Mount			
Accessories	PFA150	Pole Mount			
Accessories	PFA151	Corner Mount			
	PFB300C	Ceiling Mount			
	PFB301C	Ceiling Mount			
	PFB301S-E	Plane Mount			
	PFB303S	Parapet Mount			

Accessories

Included:



36 VDC/2.23 A Power Adapter



PFB303W Wall Mount



PFA114 Mount Adapter

Optional:







PFA150

Pole Mount



PFA151 Corner Mount



Ceiling Mount

PFB300C+PFA150

Pole Mount





PFB301C Ceiling Mount

PFB301S-E Plane Mount



PFB303S Parapet Mount

Wiz Mind | DH-SDT7C424-4F-ZBZJ-APV-0400

Wall Mount	Ceiling Mount	Ceiling Mount
PFA114+PFB303W+PFA120	PFA114+PFB300C	PFA114+PFB301C
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)
PFA114+PFB303W+PFA150	PFA114+PFB303W+PFA151	PFA114+PFB300C+PFA150
Plane Mount	Parapet Mount	
PFA114+PFB301S-E	PFA114+PFB303S	

