



DH-SDT7C424-4F-ZBZJ-APV

4MP 24x Starlight IR WizMind Network Panoramic + 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

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, and more, and uses secondary recognition during target detection to improve alarm accuracy.

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.

- Panoramic: 1/1.8" 4Megapixel F1.0 STARVIS™ CMOS
 Detail: 1/2.8" 4Megapixel 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

Automatically tracks moving targets, keeping them on the monitoring screen. With its flexible design, human, motor vehicle and non-motor vehicle targets can be set to be tracked. These parameters can also be combined. Targets are immediately tracked when detection rules (such as tripewire and intrusion) are triggered.

Smart Illumination

With its advanced algorithm, the camera balances and evens out the effect of its built-in IR illuminator, matching the zoom rate to the power of the IR illuminator. Also, the IR illuminator is strong, delivering illumination up to 150 m away, allowing the camera to capture finer details of a scene in the dark.

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%.

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
TIACI	Detail: 4 MP Panoramic: 2560 (H) × 1440 (V)				Idle Motion	Preset; Tour; Scan; Track
Max. Resolution	Panoramic: 2560 (H) × 1440 (V) 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					Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking
Electronic Shutter Speed	Panoramic: 1/1 s-1/30,000 s Detail: 1/1 s-1/30,000 s				IVS (Perimeter Protection)	detection; people gathering; vehicle/human alarm classification.
Scanning System	Progressive				Face Detection	Yes
	Panoramic: Color: 0.001 lux@F1.0				Auto Tracking	Yes
Adia III. mainatian	B/W: 0.0001 lux@F1.0 0 lux (white light on)				Video	
Min. Illumination	Detail: Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6				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)	150 m (49.13 ft) (IR) Zoom Prio; Manual; Auto; Off			Resolution	Panoramic: 4M (2560 X 1440) , 1080p (1920 × 1080) , 1.3M (1280 × 960) , 720p (1280 × 720) , D1 (704 × 576/704 × 480) , CIF (352 × 288/352 × 240) Detail: 4M (2560 X 1440) , 1080p (1920×1080) , 1.3M (1280 ×
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off Panoramic: 4x white light					
Illuminator Number Detail: 2x white light; 4x IR					960) , 720p (1280 ×720) , D1 (704 × 576/704 × 480) , CIF (352 × 288/352 × 240)	
Lens Panoramic: 4 mm			Default Bit Rate with Default Resolution	3072 kbps (2560 × 1440, H.265)		
Focal Length	Panoramic: 41mm Panoramic: F1.0 Detail: F1.6–F3.6				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)	
Max. Aperture						
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°			Video Frame Rate	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)
Optical Zoom	Zoom 24x				Bit Rate Control	CBR; VBR
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) Detail: Detail: 1,928 m 771.2 m (6,325.46 ft) (2,530.18 ft)	(66.9 ft) Detail: 385.6 m (1,265.09 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 Pan: 0° to 360° endless Tilt: -20° to +90°, auto flip 180°				Noise Reduction	Panoramic: 2D NR; 3D NR	
Manual Control Speed Pan: 0.1°/s-160°/s Tilt: 0.1°/s-120°/s				Motion Detection	Detail: 2D NR; 3D NR Yes	
Preset Speed	Pan: 240°/s; Tilt: 200°/s				Region of Interest (RoI)	Yes
Donat	300					

Preset

Defog	Panoramic: Electronic defog Detail: Electronic defog
Image Rotation	180°
S/N Ratio	≥55 dB
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; SNM v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; TCP
Interoperability	ONVIF (Profle S&G&T); CGI; Dahua SDK
Streaming Method	Unicast; Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	FTP; Micro SD card (128 GB)
Browser	IE 7 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
Certification	
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: 47 CFR FCC Part15, Subpart B Class A ANSI C63.4-2014
Port	
Alarm I/O	2/1
Audio I/O	1/1
Two-way Audio	Yes
Alarm Linkage	Capture; preset; tour; pattern; recording; triggering on- 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.: 45 W (illuminator + heater + PTZ working + sound and light alarm)
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; voltage transient protection
Structure	
Casing	Plastic + aluminum alloy
Product Dimensions	358 mm × Φ202 mm (14.09" × 7.95")
	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	4MP 24x Starlight White Light PTZ AI Network Camera			
	DC36V/2.23A	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:



DC36V/2.23A Power Adapter



PFB303W Wall Mount



PFA114 Mount Adapter

Optional:









PFA150 Pole Mount

PFA151 Corner Mount



PFB300C+PFA150

Pole Mount



PFB301C Ceiling Mount



PFB301S-E Plane Mount



Ceiling Mount

PFB303S Parapet Mount

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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	

