

# 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				Manual Control Speed	Pan: 0.1°-160°/s Tilt: 0.1°-120°/s		
Camera						Preset Speed	Pan: 240°/s; Tilt: 200°/s
Image Sensor	Panoramic: 1/1.8" CMOS Detail: 1/2.8" CMOS					Preset	300
Pixel	Panoramic: 4 MP Detail: 4 MP					Tour	8 (up to 32 presets per tour)
Max. Resolution		Panoramic: 2560 (H) × 1440 (V)				Pattern	5
	Panoramic: 4	Detail: 2560 (H) × 1440 (V)				Scan	5
ROM	Detail: 256 M	Panoramic: 4 GB Detail: 256 MB				Power-off Memory	Yes
RAM	Panoramic: 1 Detail: 1 GB	Panoramic: 1 GB Detail: 1 GB				Idle Motion	Preset, Tour, Scan, Track
Electronic Shutter Speed		Panoramic: 1/1 s-1/30,000 s Detail: 1/1 s-1/30,000 s				PTZ Protocol	DH–SD Pelco–P/D (auto recognition)
Scanning System	Progressive So	canning				Intelligence	
	Panoramic:	Panoramic: Color: 0.001 lux@F1.0				Face Detection	Yes
B/W: 0.0001 lux@F1.0 0 lux (white light on) Detail: Color: 0.005 lux@F1.6				IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking		
	B/W: 0.0005 lux@F1.6 0 lux (IR light on)					Auto Tracking	Yes
Illumination Distance	30 m (98.44 f 150 m (49.13	t) (white light) ft) (IR)				Video	
Illuminator On/Off Control	Zoom Prio; m	Zoom Prio; manual; auto; off				Video Compression	H.265, H.264B, H.264M, H.264H ,MJPEG, smart H.265, smart H.264
Illuminator Number		Panoramic: 4x white light				Streaming Capability	3 streams
Detail: 2x white light; 4x IR  Lens					Panoramic: 4M (2560 X 1440) , 1080p (1920 × 1080) , 1.3M (1280 ×		
Focal Length	Panoramic: 4 mm Detail: 4.8 mm–115 mm					Resolution	960) , 720p (1280 ×720) , D1 (704 × 576/704 × 480) , CIF (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)
Max. Aperture	Panoramic: F1.0 Detail: F1.6–F3.6						
Field of View	Panoramic: H: 95°; V: 52.5°; D: 116° Detail:					Default Bit Rate with Default Resolution	3072 Kbps (2560 × 1440, H.265)
Optical Zoom	H: 53.1°-3.4°; V: 30.4°-1.95°; D: 59.3°-3.9° 24×				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)	
Focus Control	Auto; Semi-Auto; Manual						
Close Focus Distance	Panoramic: 0.2 m (0.66 ft) Detail: 0.5 m–5 m (1.64 ft–16.4 ft)						
Iris Control	Panoramic: Fixed				Bit Rate Control	Constant Bite Rate; Variable Bite Rate	
	Detail: Auto; r	Observe	Recognize	Identify		Video Bit Rate	H. 265: 1024 Kbps-7936 Kbps
	Panorama: Panoram 102 m 40.8 m (334.66 ft) (133.86 f Detail: Detail: 1,928 m 771.2 m	Panorama:	: Panorama: 20.4 m ) (66.9 ft) Detail: 385.6 m	Panorama: 10.2 m (33.46 ft) Detail: 192.8 m (632.55 ft)		Day/Night	Panoramic: Color/B/W Detail: Auto (ICR)/Color/B/W
		40.8 m (133.86 ft) Detail:				BLC	Panoramic: Yes Detail: Yes
DORI Distance		771.2 m (2530.18 ft)				WDR	Yes
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.					HLC	Panoramic: Yes Detail: Yes
						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°						

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Noise Reduction	Panoramic: 2D NR; 3D NR Detail: 2D NR; 3D NR		
Motion Detection	Yes		
Region of Interest (RoI)	Yes		
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; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; SSL; Qos; FTP; UPnP; ICMP; SNMP; IGMP; ARP;RTCP; RTP; PPPoE; RTMP; Bonjour; SAMBA; NFS		
Interoperability	ONVIF (Profle S&G&T); CGI; 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	DMSS; DSS Pro		
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" × 6.75") (L × W × H)		
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:



PFB300C+PFA150 Pole Mount



PFA150 Pole Mount



PFA151 Corner Mount



PFB300C Ceiling Mount



PFB301C Ceiling Mount



PFB301S-E Plane Mount



PFB303S Parapet Mount

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	

# Dimensions (mm[inch])

