

DH-PSDW81642M-A360 B

8 × 2MP WizMind Multi-Sensor Panoramic & PTZ Network Camera



- \cdot Panoramic camera: Eight 1/1.8" 2 Megapixel progressive scan CMOS
- \cdot PTZ camera: One 1/1.8" 4 Megapixel progressive scan CMOS
- · Support 360-degree panoramic view
- Starlight technology
- \cdot Support Smart H265+/H264+ encoding
- · Day/Night (ICR); 3D DNR; AWB; AGC; BLC
- \cdot IR distance up to 400 m
- \cdot Smart tracking
- \cdot Tripwire
- Intrusion
- · Crowd map



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.

Series Overview

Starlight panoramic HD network camera, with all-in-one design, provides a 360° panorama and region of interest details at the same time. The panoramic network combines 8 sensors working in tandem to realize 360° panoramic surveillance; all-in-one module and high-speed PTZ camera provides the function of quick position details. In addition, with video analytic algorithm and multi-target track algorithm, the camera can automatically or manually detect tripwire and intrusion of mutiple targets in detection area, output alarm signal, and then link PTZ for smart tracking. With these excellent features, the camera can meet higher security requirements.

Functions

True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens.

Starlight Technology

Featured with Dahua Starlight Technology, the camera is ideal for applications with challenging light conditions. Its low light performance delivers usable video with minimal ambient light. Even in extreme low light conditions, Starlight Technology is capable of delivering color images in nearly complete darkness.

Crowd map

With deep learning algorithm, Dahua Crowd Map technology can detect the crowd density on the image, and display it on heat map; it can detect people quantity and density in selected area and set threshold. When the number or density is larger or smaller than the threshold, it triggers linkage.

Tripwire detection and intrusion detection

With advanced CNN algorithm, the detection distance, and the accuracy rate and timely rate of linkage track are much improved.

Smart tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.



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Technical Specification

Camera	

Camera					
Image Sensor		Panoramic camera: 1/1.8"2Megapixel progressive CMOS PTZ camera: 1/1.8"4Megapixel progressive CMOS			
Max. Resolution		Panoramic camera: 8192 (H) × 1800 (V) PTZ camera: 2560 (H) × 1440 (V)			
ROM		Panoramic camera: 4 GB PTZ camera: 32 GB			
RAM		Panoramic camera: 8 GB PTZ camera: 4 GB			
Scanning System		Progressive			
Electronic Shutter Speed		Panoramic camera: Auto/Manual 1/3 s–1/100,000 s PTZ camera: Auto/Manual 1/1 s-1/300,000 s			
Min. Illumination		Panoramic camera: Color: 0.005Lux@F2.0;B/W: 0.0005Lux@F2.0; PTZ camera: Color: 0.001Lux@F1.3;B/W: 0.0001Lux@F1.3;0Lux@ F1.3(IR on)			
S/N Ratio		Panoramic camera: 56 dB PTZ camera: 53.6 dB			
Illumination Distance		PTZ camera: ≥ 400 m (1312.3 ft) (IR LED)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		PTZ camera:	7 (IR LED)		
Lens					
Lens Type		Panoramic camera: Fixed-focal PTZ camera: Motorized vari-focal			
Mount Type		Panoramic camera: M12 PTZ camera: Module			
Focal Length		Panoramic camera: 5 mm PTZ camera: 5.6 mm-223 mm, 40x optical zoom			
Max. Aperture		Panoramic camera: F2.0 PTZ camera: F1.3			
Field of View		Panoramic camera: Horizontal: 360° Vertical: 84° PTZ camera: Horizontal: 2.27°–61.40° Vertical: 1.30°–35.99° Diagonal: 2.62°–68.18°			
Iris Type		Panoramic camera: Fixed PTZ camera: Auto			
Close Focus Distance		Panoramic camera: 1.2 m (3.9 ft) PTZ camera: 0.5 m (1.6 ft)			
		Detect	Observe	Recognize	Identify
DORI distance	Panoramic camera	53.3 m (174.9 ft)	21.3 m (69.9 ft)	10.7 m (35.1 ft)	5.3 m (17.4 ft)
	PTZ camera	2873.1 m (9426.2 ft)	1149.2 m (3770.3 ft)	574.6 m (1885.2 ft)	287.3 m (942.6 ft)
Smart event					
IVS		Intrusion, tripwire			
Professional, Intelligent					

Crowd distribution map; global people counting; people

intelligent search, event extraction and merging to event

counting in area; crowd density abnormality snapshot

Work together with Smart NVR to perform refine

videos.

Crowd Distribution Map

Intelligent Search

Video	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)
Smart Codec	Smart H.265+/ Smart H.264+
Video Frame Rate	Panoramic camera: Main stream: 8192 × 1800 @1–25/30 fps; sub stream 1: 3840 × 832 @1–25/30 fps; sub stream 2: 4800 × 3840 @1–25/30 fps PTZ camera: Main stream: 2560 × 1440 @1–25/30 fps; sub stream 1: 704 × 480 @1–25/30 fps; sub stream 2: 1920 × 1080 @1–25/30 fps
Stream Capability	3 streams
Resolution	Panoramic camera: 8192 × 1800; 7680 × 1680; 5760 × 1264; 4800 × 3840; 4096 × 900; 3840 × 832; 3200 × 2560; 2560 × 560; 2048 × 452; 1600 × 1280 PTZ camera: 2560 × 1440; 2048 × 1536; 1920 × 1080; 1280 × 960; 1280 × 720; 704 × 576; 704 × 480; 352 × 288; 352 × 240
Bit Rate Control	Panoramic camera: CBR/VBR PTZ camera: CBR/VBR
Video Bit Rate	Panoramic camera: H.264: 512 kbps-42995 kbps H.265: 256 kbps-26216 kbps PTZ camera: H.264: 184 kbps-15104 kbps H.265: 110 kbps-9216 Kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	Panoramic camera: True WDR:120 dB PTZ camera: True WDR:120 dB
Scene Self-adaptation	Yes
White Balance	Panoramic camera: Auto/Natural/Street lamp/Outdoor/Manual/Regional custom PTZ camera: Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural/Street lamp
Gain Control	Auto/Manual
Noise Reduction	Panoramic camera: 3DNR PTZ camera: 2DNR/3DNR
Motion Detection	OFF/ON (4 areas)
Region of Interest (Rol)	Panoramic camera: Yes (4 areas) PTZ camera: Yes (4 areas)
Electronic Image Stabilization (EIS)	PTZ camera: Yes
Smart Illumination	PTZ camera: Yes
Defog	PTZ camera: Yes
Privacy Masking	Panoramic camera: 4 areas PTZ camera: 8 areas
Audio	
Audio Compression	G.711A; G.711Mu; G.726; AAC
Alarm	Alarm Event No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection and external alarm.

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Network

Network		
SDK and API	Yes	
Network	RJ-45 (10/100/1000 Base-T)	
Protocol	IPv4/v6;HTTP;HTTPS;SSH; TCP; UDP;ARP;RTP ;RTSP;RTCP;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS QoS; CoS; UPnP; NTP; ICMP; IGMP;SNMP v1, 2 and :	
Interoperability	ONVIF (Profile G/T/S); GB/T28181; CGI	
User/Host	20 (Total bandwidth: 800 M)	
Storage	FTP; SFTP; Micro SD card (support max. 512 G); Dahua Cloud; NAS	
Browser	IE: IE7 and earlier Chrome: 42 and earlier Firefox: 52 and earlier Safari: 11 and earlier	
Streaming Method	Unicast / Multicast	
Mobile Phone	IOS; Android	
PTZ Dome		
Pan Range	Pan: 0° to 360° endless Tilt: –12° to 90°, auto flip 180	
Manual Control Speed	Pan: 0.1°/s–240°/s (manual); 0.1°/s–240°/s (preset) Tilt: 0.1°/s–100°/s (manual); 0.1°/s–200°/s (preset)	
Remote Lens Reset	Yes	
Remote PTZ Reset	Yes	
Preset	300	
Tour	8 (up to 32 presets per tour)	
Pattern	5 patterns	
Scan	5 auto scans	
Power-off Memory	Yes	
Idle Motion	Preset/Pattern/Tour/Scan	
Time Task	Yes	
3D Positioning	Yes	
PTZ Limit	Yes	
Position Display	Yes	
Information Display	Yes	
Time Display	Yes	
Certifications		
Certification	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Port		
Audio Input	2 channels (terminal)	
Audio Output	2 channels (terminal)	
Alarm Input	7 channels in: 5mA 3V–5V DC	
Alarm Output	3 channels out: 300mA 12V DC	

Power

Power	
Power Supply	36V DC
Power Consumption	< 84.4W
Environment	
Operating Conditions	-40°C to +70°C (-40°F to 158°F)
Operating Humidity	≤95%
Strorage Conditions	5°C –40°C $$ (41°F–104°F) (The temperature difference of each day is within 15°C /59°F.)
Protection	IP66; IK10
Structure	
Casing	Metal + plastic
Dimensions	Φ383 mm × 389.8 mm (Φ15.1" × 15.3")
Net Weight	14.70 kg (32.4lb)
Gross Weight	19.80 kg (43.7lb)

Ordering Information				
Туре	Part Number	Description		
Panoramic + PTZ camera	DH- PSDW81642M-A360	8 × 2MP WizMind Multi-Sensor Panoramic & PTZ Network Camera		
	DH- PSDW8842M-A180	4 × 2MP WizMind Multi-Sensor Panoramic & PTZ Network Camera		
Accessories	PFB710C	Hang-mounted bracket		
	PFB710W	Wall-mounted bracket		
	DH-PFA153	DH-PFA153-Heavy pole-mounted bracket- DH816W2		

Accessories

Optional:



DH-PFA153 DH-PFA153-Heavy

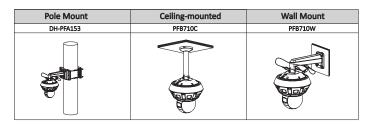
pole-mounted bracket-DH816W2





PFB710C Hang-mounted bracket

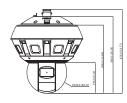
PFB710W Wall-mounted bracket



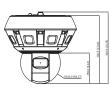
www.dahuasecurity.com

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Dimensions (mm[inch])











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