



DH-PSDW81642M-A360

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

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.

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

















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.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Technical	Specification	on				Video	
Camera		Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)				
Image Senso	r	Panoramic camera: $1/1.8''$ 2Megapixel progressive CMOS PTZ camera: $1/1.8''$ 4Megapixel progressive CMOS			Smart Codec	Smart H.265+/ Smart H.264+	
Max. Resolution Panoramic camera: 8192 (H) × 1800 (V) PTZ camera: 2560 (H) × 1440 (V)			Panoramic camera: Main stream: 8192 × 1800 @1–25/30 fps; sub stream 1: 3840 × 832 @1–25/30 fps;				
ROM Panoramic camera: 4 GB PTZ camera: 32 GB		Video Frame Rate	sub stream 2: 4800 × 3840 @1–25/30 fps PTZ camera:				
RAM		Panoramic c 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
Scanning System Progressive			Stream Capability	3 streams			
Electronic Sh	utter Speed		amera: Auto/M Auto/Manual 1				Panoramic camera: 8192 × 1800; 7680 × 1680; 5760 × 1264; 4800 × 3840;
Min. Illumina	ition	0.001 Lux (Co PTZ camera:	Panoramic network camera: 0.001 Lux (Color); 0.0002 Lux (B/W) PTZ camera: 0.001 Lux (Color); 0.0001 Lux (B/W); 0 Lux (IR on)			Resolution	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
S/N Ratio		Panoramic c PTZ camera:	amera: 56 dB 53.6 dB			Bit Rate Control	Panoramic camera: CBR/VBR PTZ camera: CBR/VBR
Illumination I	Distance	PTZ camera: ≥ 400 m (1312.3 ft) (IR LED)				Panoramic camera: H.264: 512 kbps–42995 kbps H.265: 256 kbps–26216 kbps	
Illuminator On/Off Control Auto/Manual			Video Bit Rate	PTZ camera: H.264: 184 kbps—15104 kbps H.265: 110 kbps—9216 kbps			
Illuminator Number PTZ camera: 7 (IR LED)				Day/Night	Auto (ICR)/Color/B/W		
Lens				BLC	Yes		
Lens Type			anoramic camera: Fixed-focal TZ camera: Motorized vari-focal			HLC	Yes
Mount Type Panoramic camera: M12 PTZ camera: Module		WDR	Panoramic camera: True WDR:120 dB PTZ camera: WDR (120 dB)				
Focal Length Panoramic camera: 5 mm PTZ camera: 5.6 mm-223 Panoramic camera: F2.0		5.6 mm-223 m			Scene Self-adaptation (SSA)	Yes	
Max. Aperture Field of View		PTZ camera: F1.3 Panoramic camera: Horizontal: 360° Vertical: 84° PTZ camera: Horizontal: 2.27°–61.40°			White Balance	Panoramic camera: Auto/Natural/Street lamp/Outdoor/Manual/Regional custom PTZ camera: Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural/Street lamp	
		Vertical: 1.30°–35.99° Diagonal: 2.62°–68.18°			Gain Control	Auto/Manual	
Iris Type		Panoramic camera: Fixed PTZ camera: Auto			Noise Reduction	3D NR	
Close Focus [Distance	Panoramic camera: 1.2 m (3.9 ft) PTZ camera: 0.5 m (1.6 ft)			Motion Detection	OFF/ON (4 areas)	
		Detect	Observe	Recognize	Identify	Region of Interest (RoI)	Panoramic camera: Yes (4 areas) PTZ camera: Yes (4 areas)
DORI	Panoramic	53.3 m (174.9 ft)	21.3 m (69.9 ft)	10.7 m (35.1 ft)	5.3 m (17.4 ft)	Electronic Image Stabilization (EIS)	PTZ camera: Yes
distance	camera	2873.1 m	1149.2 m	574.6 m	287.3 m	Smart Illumination	PTZ camera: Yes
	PTZ camera	(9426.2 ft)	(3770.3 ft)	(1885.2 ft)	(942.6 ft)	Defog	PTZ camera: Yes
Smart event IVS Intrusion, tripwire			Privacy Masking	Panoramic camera: 4 areas PTZ camera: 8 areas			
	1 1 1 112		pwire			Audio	
Professional, Intelligent Crowd distribution map; global people counting; people		Audio Compression	G.711A; G.711Mu; G.726				
Intelligent Search		counting in area; crowd density abnormality snapshot Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.			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	

VVIZ IVIING DH-PSDW81642IVI-A360				
Network				
SDK and API	Yes			
Network	RJ-45 (10/100/1000 Base-T)			
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP			
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade			
Interoperability	ONVIF (Profile G/T/S); CGI			
User/Host	20 (Total bandwidth: 800 M)			
Storage	FTP; SFTP; Micro SD card (support max. 512 G); NAS			
Browser	IE: IE7 and earlier Chrome: 42 and earlier Firefox: 52 and earlier Safari: 11 and earlier			
Management Software	EVS; NVR; M70; DSS; Milestone; Genetec			
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 Tilt: 0.1°/s-100°/s			

Manual Control Speed Pan: 0.1°/s-240°/s Tilt: 0.1°/s-100°/s 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	Pan Range	Pan: 0° to 360° endless Tilt: –12° to 90°, auto flip 180
Remote PTZ Reset 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	Manual Control Speed	
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	Remote Lens Reset	Yes
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	Remote PTZ Reset	Yes
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	Preset	300
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	Tour	8 (up to 32 presets per tour)
Power-off Memory Idle Motion Preset/Pattern/Tour/Scan Time Task Yes 3D Positioning Yes PTZ Limit Yes Position Display Yes Information Display Yes	Pattern	5 patterns
Idle Motion Preset/Pattern/Tour/Scan Time Task Yes 3D Positioning Yes PTZ Limit Yes Position Display Yes Information Display Yes	Scan	5 auto scans
Time Task Yes 3D Positioning Yes PTZ Limit Yes Position Display Yes Information Display Yes	Power-off Memory	Yes
3D Positioning Yes PTZ Limit Yes Position Display Yes Information Display Yes	Idle Motion	Preset/Pattern/Tour/Scan
PTZ Limit Yes Position Display Yes Information Display Yes	Time Task	Yes
Position Display Yes Information Display Yes	3D Positioning	Yes
Information Display Yes	PTZ Limit	Yes
	Position Display	Yes
Time Display Yes	Information Display	Yes
	Time Display	Yes

Certifications

Certification	CE-LVD:EN62368-1 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 Supply	36V DC
Power Consumption	Basic power consumption: 58.7WW Max. power consumption (WDR + H.265 + IR LED intensity): 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 Grade	IP66, IK10 optional, Anti-corrosion coating optional

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 +	DH- PSDW81642M-A360	8 × 2MP WizMind Multi-Sensor Panoramic & PTZ Network Camera
PTZ camera	DH- PSDW8842M-A180	4 × 2MP WizMind Multi-Sensor Panoramic & PTZ Network Camera
	PFB710C-SG	Hang-mounted bracket
Accessories	PFB710W-SG	Wall-mounted bracket
Accessories	DH-PFA153-SG	Pole-mounted bracket
	PBW059-00	Mount Adapter

Accessories

Included:



PBW059-00 Mount Adapter

Optional:



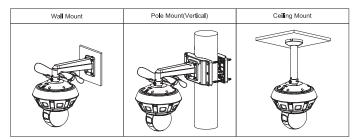




PFB710C-SG Hang-mounted bracket



PFB710W-SG Wall-mounted bracket





Dimensions (mm[inch])

