

DH-IPC-PDBW82041-B360

4 × 5MP WizMind Multi-Sensor No-Splicing Panoramic Dome Network Camera



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.

Series Overview

The non-splicing camera can adjust each lens to realize 360° surveillance, which can be used in the scenes with multiple cameras, and is easy to install. Stereo vision camera has the functions such as deep detection and behavior analysis.

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

 \cdot 4 \times 5MP 1/2.7" CMOS image sensor, low illuminance, high image definition

- 4-channel stream output, and each channel can output max. 5MP
 (2592 × 1944) @25/30 fps
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Support 4-channel 120dB WDR
- The intelligent functions of 4 channels can be enabled at the same time
- Intelligent detection: Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human), abandoned object, missing object, loitering detection, people gathering, parking detection, and face detection
- FlexStream: The 4 channels of images can be viewed in a defined channel with 1 channel stream. That is, the multiple images can be displayed in 1 channel.
- \cdot Web5.0 interface design, which is friendly to users, and easy for operation
- \cdot Built-in efficient IR LED illuminator, and the max. illumination distance is 30 m
- Alarm: 3 in, 2 out; audio: 1 in, 1 out; 485; supports max. 256 G Micro SD card
- 12V DC/POE power supply; 12V power output, and max. current 165mA; easy for installation
- IP67, IK10 protection



One IP Address for Multiple Streams

With one IP address, Dahua multi-sensor camera can display multiple images. The camera can do multi-image monitoring through software platform or NVR.

WDR

With advanced Wide Dynamic Range 120dB WDR technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification Camera Image Sensor 1/2.7"5Megapixel progressive CMOS Max. Resolution 2592 (H) × 1944 (V) ROM 32 GB RAM 4 GB Scanning System Progressive Auto/Manual 1/3 s-1/100,000 s Electronic Shutter Speed Min. Illumination 0.005 Lux @F1.7 S/N Ratio >56 dB Illumination Distance 30 m (98.4 ft) (IR LED) Illuminator On/Off Control Auto/Manual Illuminator Number 8 (IR LED) Pan: 0°-360° Pan/Tilt/Rotation Range Tilt: 0°–80° Rotation: 0°-355° Lens Lens Type Motorized vari-focal Mount Type φ14 Focal Length 2.8 mm-12 mm F1.7 Max. Aperture Horizontal: 100°–36° Field of View Vertical: 74°-27° Diagonal: 133°–45° Iris Type Fixed **Close Focus Distance** 0.8 m (2.6 ft) Lens Detect Observe Recognize Identify 66 m 26.4 m 13.2 m 6.6 m DORI W (216.5 ft) (86.6 ft) (43.3 ft) (21.7ft) Distance 14 m 140.4 m 56.1 m 28 m Т (460.6 ft) (184.1 ft) (91.9 ft) (45.9 ft)

Smart Event

IVS	Abandoned object; missing object		
Professional, intelligent			
IVS (Perimeter Protection)	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection		
Face Detection	Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear), mask, beard; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting		
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.		

Video		
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	
Smart Codec	Smart H.265+/Smart H.264+	
Video Frame Rate	Single Stream: Main stream: 5MP (1–25/30 fps) Sub stream: D1 (1–25/30 fps) Third stream: 2MP (1–25/30 fps) FlexStream: Main stream: 2MP (1–25/30 fps) Sub stream: D1 (1–25/30 fps) Third stream: 8MP (1–25/30 fps)	
Stream Capability	3 streams	
Resolution	Single Stream: 5M(2592×1944); 4M(2688×1520); 3M(2048×1536);2M(1920×1080);720P(1280×720); D1(704×576/704×480);CIF(352×288/352×240) FlexStream:8M(3296×2472);5M(2592×1944); 2M(1600×1200);1.3M(1280×960); D1(704×576/704×480);CIF(352×288/352×240)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H.264: 3 kbps–19456 kbps H.265: 3 kbps–19456 kbps	
Day/Night	Auto (ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	4 × 120 dB	
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Gain Control	Auto/Manual	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest (RoI)	Yes (4 areas)	
Smart Illumination	Yes	
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
Alarm		
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; defocus detection; external alarm; face detection; safety exception; voltage detection	
Network		
Network	RJ-45 (10/100/1000 Base-T)	
SDK and API	Yes	

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Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPNP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP	
Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; Milestone; Genetec; RTMP; P2P	
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Browser	IE: IE9 and later Chrome: 41.0 and later No-plug version: Safari and edge	
Management Software	Smart PSS; DSS; NVR	
Mobile Phone	IOS; Android	
Certification		
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		
RS-485	1 (baud rate range: 1200 bps-115200 bps)	
Audio Input	1 channel (RCA port)	
Audio Output	1 channel (RCA port)	
Alarm Input	3 channel in: 5mA 3V–5V DC	
Alarm Output	2 channel out: 300mA 12V DC	
Power		
Power Supply	12V DC/POE(802.3at)	
Power Consumption	Basic power consumption: 8.1W (12V DC); 9W (PoE) Max. power consumption (ICR + IR intensity): 21.5W (12V DC); 22.2W (POE+)	
Environment		
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/Less than 95% RH	
Storage Conditions	-30°C to +60°C (-22°F to +140°F)	
Protection Grade	IP67; IK10	
Structure		
Casing	Metal + Plastic	
Dimensions	286.1 mm × 111.3 mm (11.3" × 4.4")	
Net Weight	2.75 kg (8.9 lb)	
Gross Weight	4.5 kg (11.0 lb)	

Ordering Information			
Туре	Model	Description	
DH 4 × 5MP Camera IPC	DH-IPC-PDBW82041P-B360	4 × 5MP WizMind Multi-Sensor No- Splicing Panoramic Dome Network Camera , PAL	
	DH-IPC-PDBW82041N-B360	4 × 5MP WizMind Multi-Sensor No- Splicing Panoramic Dome Network Camera , NTSC	
	IPC-PDBW82041P-B360	4 × 5MP WizMind Multi-Sensor No- Splicing Panoramic Dome Network Camera, PAL	
	IPC-PDBW82041N-B360	4 × 5MP WizMind Multi-Sensor No- Splicing Panoramic Dome Network Camera, NTSC	
Accessories (Optional)	PFB303W	Wall Mount Bracket	
	PFB300C	Ceiling Mount Bracket	
	PFA111	Mount Adapter	

Accessories

Optional

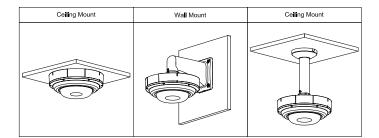




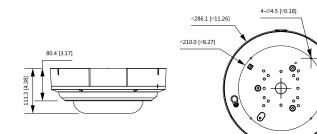


PFB303W Wall Mount Bracket PFB300C Ceiling Mount Bracket PFA111 Mount Adapter

A



Dimensions (mm[inch])



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