



DH-IPC-HDBW5241R1-AS-PV

2MP Fixed-focal Dome WizMind 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

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

Functions

Smart Dual Illumination

Dahua Smart Dual Illuminators technology adopts deep learning algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

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.

People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/daily reports to meet your requirements.

- 2MP 1/2.8" CMOS image sensor, low illuminance, high image definition
- · Outputs max. 2MP (1920× 1080) @30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in warm light and IR LED
- ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- · Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Sound and light alarm linkage. When the alarm is triggered, the sound and light will be linked.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card. Built-in Mic and speaker
- 12V DC/PoE power supply, easy for installation
- IP67, IK10 protection
- SMD Plus













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.

Siren And Light Active Deterrence

Dahua siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

One-tap Disarming

Dahua One-tap Disarming function, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage through mobile App, which meets multi-scenarios needs.

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.

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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera

Image Sensor	1/2.8" CMOS
Max. Resolution	1920 (H) × 1080 (V)
ROM	128 MB
RAM	512MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	0.002 Lux@F1.6 (Color, 30 IRE) 0.0002 Lux@F1.6 (B/W, 30 IRE) 0 Lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	2.8 mm: 30 m (98.4 ft) 3.6 mm: 30 m (98.4 ft) 6 mm: 50 m (164.0 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	2 (IR LED); 1 (Warm light)
Pan/Tilt/Rotation Range	Pan: 0°-355° Tilt: 0°-80° Rotation: 0°-355°

Lens

Lens Type

Mount Type		M12			
Focal Length		2.8 mm; 3.6 mm; 6 mm			
Max. Aperture		2.8 mm: F1.6 3.6 mm: F1.6 6 mm: F1.6			
Field of View		2.8 mm: Horizontal 106° × Vertical 56° × Diagonal 126° 3.6 mm: Horizontal 87° × Vertical 46° × Diagonal 104° 6 mm: Horizontal 53° × Vertical 30° × Diagonal 60°			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft) 6 mm: 2.5 m (8.2 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)
	3.6 mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)
	6 mm	82.5 m (270.7 ft)	33.1 m (108.6 ft)	16.6 m (54.5 ft)	8.3 m (27.2 ft)

Fixed-focal

Smart Event

IVS	Abandoned object; missing object
Heat Map	Yes

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; face enhancement; face exposure; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting
People Counting	Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm.
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.

	Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm.
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+/H.264+
Video Frame Rate	Main stream: 1920×1080 (1 fps–25/30 fps) Sub stream: D1 (1 fps–25/30 fps) Third stream: $1080p$ (1 fps–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Stream Capability	3 streams
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (354 × 288/354 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 32 kbps–8192 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
Scene Self-adaptation	Yes
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270°

Mirror	Yes
Privacy Masking	4 areas
Audio	
Built-in MIC	Yes
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Alarm	
Alarm Event	No SD card; SD card full; SD card error; service life warning; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering, parking detection; scene changing; audio detection; voltage detection; defocus detection; external alarm; face detection; people counting in area; stay alarm; people counting; people No. exception detection; safety exception; light alarm; sound alarm (21 built-in sounds and custom voices importing)
Network	
Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
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
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE: IE8, IE9, IE11 Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
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
Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC
Power	
Power Supply	12V DC (±30%)/PoE (802.3af)
Power Consumption	Basic power consumption: 1.9W (12V DC); 2.2W (PoE) Max. power consumption (WDR + face recognition + light and sound alarm + IR LED intensity): 8.2W (12V DC); 8.5W (PoE)

Environment

Operating Conditions	-40°C to $+60^{\circ}\text{C}$ (-40°F to $+140^{\circ}\text{F}$)/Less than 95% RH
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67; IK10

Structure

Casing	Metal
Dimensions	105 mm × Φ126 mm (4.1" × Φ5.0")
Net Weight	712.9 g (1.6 lb)
Gross Weight	986.0 g (2.2 lb)

Ordering Information			
Туре	Model	Description	
2MP Camera	DH-IPC-HDBW5241R1P- AS-PV	2MP Fixed-focal Dome WizMind Network Camera, PAL	
	DH-IPC-HDBW5241R1N- AS-PV	2MP Fixed-focal Dome WizMind Network Camera, NTSC	
	IPC-HDBW5241R1P-AS-PV	2MP Fixed-focal Dome WizMind Network Camera, PAL	
	IPC-HDBW5241R1N-AS-PV	2MP Fixed-focal Dome WizMind Network Camera, NTSC	
	PFA130-E	Junction Box	
	PFA200W	Rain Shade	
	PFA106	Mount Adapter	
Accessories	PFB220C	Celling Mount	
(Optional)	PFM321D	12V DC/1A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender	
	PFM900-E	Integrated Mount Tester	
	PFM114	TLC SD Card	



Accessories

Optional



PFA130-E Junction Box



PFB220C Ceiling Mount



PFA200W Rain Shade

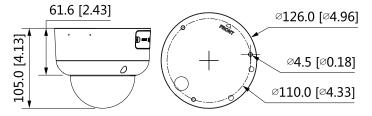


PFM321D 12V DC/1A Power Adapter



PFA106 Mount Adapter

LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



Dimensions (mm[inch])



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

Junction Mount	Wa ll Mount	Wa ll Mount
Ce lli ng Mount	Pole Mount(Vertical)	