

DH-IPC-HDW5241H-ASE-PV

2MP Fixed-focal Eyeball 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.

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.

- 2MP 1/2.8" CMOS image sensor, low illuminance, high definition image
- Outputs max. 2MP (1920 × 1080)@30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in efficient warm light and IR LED, and the Max. IR distance is 50 m
- 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
- Supports one-tap disarming. You can disarm the events of alarm output, sending email, audio, and light during the configured period
- 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
- ePoE, IP67 protection
- SMD Plus



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.

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, 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.

Wide voltage: The camera allows ±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	512 MB
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: 20 m (65.6 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 light); 2 (warm light)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°

Lens

Lens Type	Fixed-focal
Lens Mount	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 127° 3.6 mm: Horizontal 88° × Vertical 46° × Diagonal 104° 6.0 mm: Horizontal 54° × Vertical 29° × Diagonal 63°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.0 m (3.3 ft) 6.0 mm: 2.5 m (8.2 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	43.9 m (144 ft)	17.5 m (57.4 ft)	8.8 m (28.9 ft)	4.4 m (14.4 ft)
	3.6mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11 m (36.1 ft)	5.5 m (18.0 ft)
	6mm	82.8 m (271.1 ft)	33.1 m (108.6 ft)	16.6 m (54.5 ft)	8.3 m (27.2 ft)

Smart Event

IVS	Abandoned object; missing object
Heat Map	Yes

Professional, intelligent

IVS (Perimeter Protection)	Intrusion; tripwire; 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; snapshot; snapshot optimization; face enhancement; face exposure; face snapshot set as face or one-inch photo; 3 snapshot strategies (real-time snapshot, optimization snapshot and 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 and stay time, and link alarm Support queue management, and 4 rules configuration. Count number of people and stay time, and link alarm
Smart 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	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: 12 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, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes

Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
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 Port	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
Network 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 Client	IOS; Android

Mobile Client

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14
----------------	---

Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1channel out: 300mA 12V DC

Power

Power Supply	DC 12V (±30%)/PoE (802.3af)/ePoE
--------------	----------------------------------

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 Temperature	–40°C to +60°C (–40°F to +140°F)
Operating Humidity	≤ 95%
Storage Temperature	–40°C to +60°C (–40°F to +140°F)
Protection	IP67

Structure

Casing	Metal
Product Dimensions	Φ122 mm × 110.9 mm (Φ4.8" × 4.4")
Net Weight	753 g (1.7 lb)
Gross Weight	937 g (2.1 lb)

Ordering Information

Type	Model	Description
2MP Camera	DH-IPC-HDW5241H-ASE-PV	2MP Fixed-focal Eyeball WizMind Network Camera
	IPC-HDW5241H-ASE-PV	2MP Fixed-focal Eyeball WizMind Network Camera
Accessories (Optional)	PFA137	Junction Box
	PFB205W	Wall Mount
	PFB220C	Ceiling Mount
	PFA106	Mount Adapter
	PFA152-E	Pole Mount
	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



PFA137
Junction Box



PFB205W
Wall Mount



PFB220C
Ceiling Mount



PFA106
Mount Adapter



PFA152-E
Pole Mount



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

Junction Mount	Wall Mount	Ceiling Mount
Pole Mount(Vertical)		

Dimensions (mm[inch])

