

DH-IPC-HDW5541H-ASE-PV

5MP 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.

- 5MP 1/2.7" CMOS image sensor, low illuminance, high definition image
 Outputs max. 5MP (2592 × 1944)@20 fps and 2688 × 1520 (2688 × 1520)@25/30 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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera

camera					
Image Sensor		1/2.7" CMOS			
Max. Resolution		2592 (H) × 1944 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.005 Lux@F1.6 (Color, 30IRE) 0.0005 Lux@F1.6 (B/W, 30IRE) 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 98° × Vertical 71° × Diagonal 129° 3.6 mm: Horizontal 80° × Vertical 58° × Diagonal 107° 6.0 mm: Horizontal 50° × Vertical 37° × Diagonal 64°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 1.1 m (3.6 ft) 3.6 mm: 1.6 m (5.2 ft) 6.0 mm: 3.1 m (10.2 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	63.6 m (208.7 ft)	25.4 m (83.3 ft)	12.7 m (41.7 ft)	6.4 m (21.0 ft)
	3.6 mm	79.4 m (260.5 ft)	31.8 m (104.3 ft)	15.9 m (52.2 ft)	7.9 m (25.9 ft)
	6 mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4 ft)
Smart Event					
IVS		Abandoned object; missing object			

Yes

Heat Map

Professional, intelligent

, 0			
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; 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 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: (2592 × 1944@1-20 fps) (2688 × 1520@1-25/30 fps) (1920 × 1080@1-50/60 fps) Sub stream: (704 × 576@1-50 fps/704 × 480@1-60 fps) Third stream: (1920 × 1080@1-25/30 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	5M (2592 × 1944); 4M (2688 × 1520); 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 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 (Rol)	Yes (4 areas)		
Smart Illumination	Yes		
Defog	Yes		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)		

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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				
Certification					
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); 2.4W (PoE) Max. power consumption (WDR + face recognition + light and sound alarm + IR LED intensity): 8.3W (12V DC); 8.7W (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	756 g (1.7 lb)		
Gross Weight	940 g (2.1 lb)		

Ordering Information				
Туре	Model	Description		
5MP Camera	DH-IPC-HDW5541H-ASE-PV	5MP Fixed-focal Eyeball WizMind Network Camera		
	IPC-HDW5541H-ASE-PV	5MP Fixed-focal Eyeball WizMind Network Camera		
	PFA137	Junction Box		
	PFB205W	Wall Mount		
	PFB220C	Ceiling Mount		
	PFA106	Mount Adapter		
Accessories (Optional)	PFA152-E	Pole 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		

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Accessories

Optional



PFA137 Junction Box



PFA106

Mount Adapter

LR1002-1ET/1EC

Single-port Long Reach

Ethernet over Coax Extender



PFB205W

Wall Mount

PFA152-E Pole Mount





PFM900-E Integrated Mount Tester



PFB220C

Ceiling Mount



Dimensions (mm[inch])





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