

DH-IPC-HDW5541H-AS-PV

5MP IR Fixed-focal Eyeball WizMind 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

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.

Functions

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.

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 white 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.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2592 × 1944)@20 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 50 m.
- ROI, SMART H.264 +/H.265+,AI 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.
- Intelligent monitoring: Intrusion, tripwire, 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 heat map.
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- 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.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- SMD 3.0



Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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 $\pm 30\%$ (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

IVS

Heat Map

SMD 3.0

Professional, intelligent

IVS (Perimeter Protection)

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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, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		> 56 dB			
Illumination Distance		2.8 mm: 30 m (98.43 ft) (IR) 3.6 mm: 30 m (98.43 ft) (IR) 6 mm: 50 m (164.04 ft) (IR)			
Illuminator On/Off Control		Auto; Manual			
Illuminator Number		1 (IR LED) 1 (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		F1.6			
Field of View		2.8 mm: Horizontal: 102°; Vertical: 71°; Diagonal: 131° 3.6 mm: Horizontal: 84°; Vertical: 58°; Diagonal: 110° 6 mm: Horizontal: 51°; Vertical: 37°; Diagonal: 63°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (5.25 ft) 6 mm: 3.1 m (10.17 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)
	3.6 mm	80 m (262.47 ft)	32 m (104.99 ft)	16 m (52.49 ft)	8 m (26.25 ft)
	6 mm	120 m (393.70 ft)	48 m (157.48 ft)	24 m (78.74 ft)	12 m (39.37 ft)
Smart Event					

Abandoned object; missing object

gathering, and parking detection

Intrusion, tripwire, fast moving (the three functions

support the classification and accurate detection

of vehicle and human); loitering detection, people

Less false alarm, longer detection distance

Yes

BLC Yes HLC Yes WDR 120 dB Scene Self-adaptation Yes (SSA) Auto; natural; street lamp; outdoor; manual; regional White Balance custom Gain Control Auto; Manual Noise Reduction 3D NR **Motion Detection** OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Defog Yes 0°/90°/180°/270° (Support 90°/270° with 4M resolution Image Rotation and lower) Mirror Yes Privacy Masking 8 areas Audio Built-in MIC Yes PCM; G.711a; G.711Mu; G.726; G.723 Audio Compression Alarm No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering Alarm Event detection; people gathering; parking detection; scene changing; audio detection; external alarm; SMD; people counting in area; stay detection; people counting; security exception

Tripwire people counting, generating and exporting

report (day/month); people counting in area; queue

management; 4 rules can be set for tripwire, people counting in area and queue management. Work together with Smart NVR to perform refine

videos

by the sub stream)

AI H.265; AI H.264

3 streams

× 240)

CBR/VBR

Smart H.265+; Smart H.264+

Main stream: 2592 × 1944 (1–20 fps) Sub stream: D1 (1–25/30 fps) Third stream: 1080p (1–25/30 fps)

to the total encoding capacity.

H.264: 3 kbps-20480 kbps

H.265: 3 kbps-20480 kbps

Auto(ICR)/Color/B/W

intelligent search, event extraction and merging to event

H.265; H.264; H.264H; H.264B; MJPEG (Only supported

*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected

2592 × 1944; 2688 × 1520; 2304 × 1296; 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704

× 576/704 ×480); VGA (640 × 480); CIF (352 × 288/352

People Counting

Smart Search

Smart Codec

AI Coding

Video Compression

Video Frame Rate

Stream Capability

Bit Rate Control

Video Bit Rate

Day/Night

Resolution

Video

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Network

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; 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; P2P				
User/Host	20 (Total bandwidth: 80 M)				
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS				
Browser	IE: IE 8 and later Chrome Firefox				
Management Software	Smart PSS; DSS; DMSS				
Mobile Client	iOS; Android				
Certification					
Certifications	CE-LVD: EN60950-1; 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	1 channel (RCA port)				
Audio Output	1 channel (RCA port)				
Alarm Input	1 channel in: 5mA 3V–5 VDC				
Alarm Output	1 channel out: 300mA 12 VDC				
Power					
Power Supply	12 VDC/PoE (802.3af)				
Power Consumption	Basic: 2.4 W (12 VDC); 3 W (PoE) Max. (H.265 + three streams + intelligence on + IR on + warm light + max. speaker volume): 8 W (12 VDC); 9.6W (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 + plastic				
Product Dimensions	Φ122 mm × 113.5 mm (Φ4.80" × 4.47")				
Net Weight	485 g (1.07 lb)				
Gross Weight	650 g (1.43 lb)				
0.000 Weight					

Ordering Information				
Туре	Model	Description		
5MP Camera	DH-IPC-HDW5541HP-AS-PV	5MP IR Fixed-focal Eyeball WizMind Network Camera, PAL		
	DH-IPC-HDW5541HN-AS-PV	5MP IR Fixed-focal Eyeball WizMind Network Camera, NTSC		
	PFB203W	Wall Mount Bracket		
	PFA137	Junction Box		
	PFA130-E	Junction Box		
Accessories	PFA152-E	Pole Mount Bracket		
(Optional)	PFA151	Corner Mount Bracket		
	PFM321D	12 VDC 1A Power Adapter		
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender		
	PFM900-E	Integrated Mount Tester		

Accessories

Optional:



Bracket







PFA137 Junction Box





PFA152-E

Pole Mount

Bracket

1 in 12 🖹 😜 🗋 🤅

LR1002-1ET/1EC

Single-port Long Reach Ethernet Over Coax

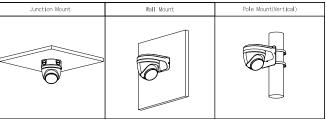
Extender



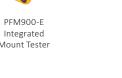




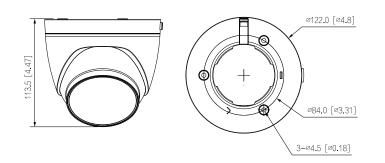




PFM900-E Integrated Mount Tester



Dimensions (mm[inch])



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