

DH-IPC-HDW5541H-AS-PV

5MP IR 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.

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.
- \cdot Outputs max. 5MP (2592 \times 1944)@20 fps , and supports 4MP (2688 \times 1520)@25/30 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, support two-way talk.
- 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.

Technical Specification					Support the counting of enter number, leave number			
Camera						People Counting	and pass number, and displaying and outputting yearly/ monthly/daily reports. Support the counting of number in	
Image Sensor		1/2.7" CMOS				r copic counting	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.	
Max. Resolution		2592 (H) × 1944 (V)						
ROM		128 MB				Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	
RAM		512 MB					Video	VIUEOS
Scanning Sy	rstem	Progressive						H.265; H.264; H.264H; H.264B; MJPEG (Only supported
Electronic S	hutter Speed	Auto/Manual 1/3 s-1/100,000 s				Video Compression	by the sub stream)	
Min. Illumin	nation	0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE)				Smart Codec Al Coding	Smart H.265+; Smart H.264+ AI H.265; AI H.264	
S/N Ratio		0 lux (Illuminator on) > 56 dB				Video Frame Rate	Sub stream: D1 (1–25/30 fps) Third stream: 1080p (1–25/30 fps) *The values above are the max. frame rates of each	
Illumination	Distance	50 m (164.04 ft) (IR)						
	On/Off Control	Auto; Manua						stream; for multiple streams, the values will be subjected to the total encoding capacity.
		1 (IR LED)					Stream Capability	3 streams
Illuminator		1 (Warm light) Pan: 0°–360°				Resolution	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	
Pan/ Hit/Ko	tation Range	Tilt: 0°–78° Rotation: 0°-	-360°				Bit Rate Control	× 240) CBR/VBR
Lens						Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps	
Lens Type		Fixed-focal				Day/Night	Auto(ICR)/Color/B/W	
Lens Mount	t	M12				BLC	Yes	
Focal Lengtl	h	2.8 mm; 3.6 mm; 6 mm				HLC	Yes	
Max. Aperti	ure	F1.6				WDR	120 dB	
Field of View	W	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°				Scene Self-adaptation (SSA)	Yes	
Iris Control		Fixed				. ,	Auto; natural; street lamp; outdoor; manual; regional	
Close Focus	Distance	2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (5.25 ft)				White Balance Gain Control	custom Auto; Manual	
	Long	6 mm: 3.1 m		Danasina	14		Noise Reduction	3D NR
	Lens	Detect 56 m	Observe 22.4 m	Recognize	Identify 5.6 m		Motion Detection	OFF/ON (4 areas, rectangular)
DORI	2.8 mm	(183.73 ft)	(73.49 ft)	(36.75 ft)	(18.37 ft)		Region of Interest (RoI)	Yes (4 areas)
Distance	3.6 mm	80 m (262.47 ft)	32 m (104.99 ft)	16 m (52.49 ft)	8 m (26.25 ft)		Defog	Yes
	6 mm	120 m (393.70 ft)	48 m (157.48 ft)	24 m (78.74 ft)	12 m (39.37 ft)		Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M resolution and lower)
Smart Event				Mirror	Yes			
IVS		Abandoned object; missing object				Privacy Masking	8 areas	
Heat Map Yes			Audio					
Professional, intelligent				Built-in MIC	Yas			
		Intrusion, tripwire, fast moving (the three functions					Yes	
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people				Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723	

Less false alarm, longer detection distance

gathering, and parking detection

SMD 3.0

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 detection; people gathering; parking detection; scene changing; audio detection; external alarm; SMD; people counting in area; stay detection; people counting; security exception

Network

Alarm Event

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
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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)		

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:



PFB203W Wall Mount Bracket



PFA137 Junction Box



PFA130-E Junction Box



PFA152-E Pole Mount Bracket



PFA151 Corner Mount Bracket



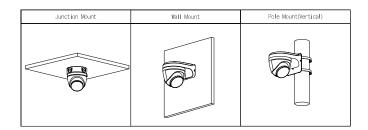
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100/256G MicroSD Memory Card



Dimensions (mm[inch])

mm [inah]

