



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
- 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

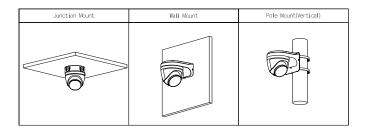
SMD 3.0

Technical Specification								Support the counting of enter number, leave number		
Camera					_	Poople Counting	and pass number, and displaying and outputting yearly/ monthly/daily reports. Support the counting of number in			
Image Sensor		1/2.7" CMOS					People 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		
Max. Resolution		2592 (H) × 1944 (V)						stay time and link alarm.		
ROM		128 MB					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event		
RAM		512 MB					videos			
Scanning System		Progressive					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported		
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					by the sub stream)			
Min. Illumination		0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Smart Codec Al Coding	Smart H.265+; Smart H.264+ AI H.265; AI H.264		
S/N Ratio		> 56 dB						Sub stream: D1 (1–25/30 fps) Third stream: 1080p (1–25/30 fps)		
Illumination Distance		50 m (164.04 ft) (IR)					Video Frame Rate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.		
Illuminator On/Off Control		Auto; Manual					Stream Capability	3 streams		
Illuminator Number Pan/Tilt/Rotation Range		1 (IR LED) 1 (Warm light) Pan: 0°–360° Tilt: 0°–78°					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 × 240)		
	rany metation manage		Rotation: 0°–360°				Bit Rate Control	CBR/VBR		
Lens		Fixed-focal					Video Bit Rate	H.264: 3 kbps-20480 kbps H.265: 3 kbps-20480 kbps		
	Lens Type		M12				Day/Night	Auto(ICR)/Color/B/W		
Lens Mount		2.8 mm; 3.6 mm; 6 mm					BLC	Yes		
Focal Length Max. Aperture		F1.6					HLC	Yes		
Wax. Aperture		2.8 mm: Horizontal: 102°; Vertical: 71°; Diagonal: 131°					WDR	120 dB		
Field of View		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					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
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)					Gain Control	Auto; Manual		
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Noise Reduction	3D NR		
	2.8 mm	56 m	22.4 m	11.2 m	5.6 m		Motion Detection	OFF/ON (4 areas, rectangular)		
	2.6	(183.73 ft) 80 m	(73.49 ft) 32 m	(36.75 ft) 16 m	(18.37 ft) 8 m		Region of Interest (RoI)	Yes (4 areas)		
	3.6 mm	(262.47 ft)	(104.99 ft)	(52.49 ft)	(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	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M resolution and lower)		
Smart Ev	rent						Mirror	Yes		
IVS		Abandoned object; missing object					Privacy Masking	8 areas		
Heat Map		Yes					Audio			
Professional, intellige							Built-in MIC	Yes		
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people statement and parking detection.					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723		
		gathering, and parking detection								

Less false alarm, longer detection distance

Alarm		Structure					
	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion	Casing Product Dimensions		Metal + plastic			
Alarm Event	detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering			Φ122 mm × 113.5 mm (Φ4.80" × 4.47")			
	detection; people gathering; parking detection; scene changing; audio detection; external alarm; SMD; people counting in area; stay detection; people counting;	Net Weight		485 g (1.07 lb)			
	security exception	Gross Weight		650 g (1.43 lb)			
Network							
Network Port	RJ-45 (10/100 Base-T)	Ordering In	Ordering Information				
SDK and API	Yes	Туре	Type Model		Description		
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	5MP Camera		W5541HP-AS-PV	5MP IR Fixed-focal Eyeball WizMind Network Camera, PAL 5MP IR Fixed-focal Eyeball		
	execution; Trusted upgrade		DH-IPC-HDW5541HN-AS-PV		WizMind Network Camera, NTSC		
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;		PFB203W		Wall Mount Bracket		
	SNMP				Junction Box		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P		PFA130-E		Junction Box		
User/Host	20 (Total bandwidth: 80 M)	Accessories	PFA152-E		Pole Mount Bracket		
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS	(Optional)	PFA151		Corner Mount Bracket		
Browser	IE: IE 8 and later Chrome Firefox		PFM321D	7/15C	12 VDC 1A Power Adapter Single-port Long Reach Ethernet		
Management Software	Smart PSS; DSS; DMSS		LR1002-1ET	/IEC	over Coax Extender		
Mobile Client	iOS; Android		PFM900-E		Integrated Mount Tester		
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	Accessories Optional:					
Port		PFB203W		PFA137	PFA130-E		
Audio Input	1 channel (RCA port)	Wall Mount Bracket		Junction Box	Junction Box		
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)	PFA152-E Pole Moun		PFA151 Corner Mount	PFM321D 12 VDC 1A Power		
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)	Bracket	ř	Bracket	Adapter		
Environment		120		256 _{GB} UA2			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	PFM900-I	E	TF-P100/256G			
Operating Humidity	≤ 95%	Integrated Mount Test					
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)						
Protection	IP67						





Dimensions (mm[inch])

