

DH-IPC-HDW5541TM-ASE

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

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.

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.

- 5MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5MP (2592 × 1944)@20 fps , and supports 4MP (2688 × 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, SVC, 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, heat map and face detection.
- 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.
- Supports max. 256 G Micro SD card, built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- ePoE; IP67 protection.

• SMD 3.0



ePoE

Dahua's innovative ePoE technology offers a new solution to transmit power and data over long distances between cameras and network switch, allowing more flexible design of surveillance system, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

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)

	•					
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		50 m (164.04 ft) (IR)				
Illuminator On/Off Control		Auto; manual				
Illuminator Number		2 (IR LED)				
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 (2.96 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 Eve	ent					
11/6		Abandonad object: missing abject				

Less false alarm, longer detection distance

Delect	Observe	Recognize	luentity	WDR	120 dB
56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)	Scene Self-adaptation (SSA)	Yes
80 m (262.47 ft)	32 m (104.99 ft)	16 m (52.49 ft)	8 m (26.25 ft)	White Balance	Auto; natural; street lamp; outdoor; man custom
120 m (393.70 ft)	48 m (157.48 ft)	24 m (78.74 ft)	12 m (39.37 ft)	Gain Control	Auto;Manual
				Noise Reduction	3D NR
Abandoned object; missing object			Motion Detection	OFF/ON (4 areas, rectangular)	
Yes			Region of Interest (RoI)	Yes (4 areas)	
nt				Defog	Yes
Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection			Image Rotation	0°/90°/180°/270° (Support 90°/270° with and lower)	
			Mirror	Yes	
Loss false alarm langer detection distance			Privacy Masking	8 areas	

Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face snapshot set as face, one-inch photo

or custom; 3 snapshot strategies (real-time snapshot, optimization snapshot and quality first); face angle filter;

Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/

Support the counting of number in area, and 4 rules

configuration. Count number of people or stay time and

Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm. Work together with Smart NVR to perform refine

intelligent search, event extraction and merging to event

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

Main stream: 2592 × 1944@(1-20 fps)/2688 × 1520@(1-

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

2688 × 1520; 2304 × 1296; 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×

nual; regional

h 4M resolution

480); VGA (640 × 480); CIF (352 × 288/352 × 240)

25/30 fps) /1920 × 1080@(1-50/60 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

optimization time setting

monthly/daily reports.

link alarm.

videos

by the sub stream)

AI H.265; AI H.264

3 streams

CBR/VBR

Yes

Yes

Smart H.265+; Smart H.264+

Face Detection

People Counting

Smart Search

Video Compression

Video Frame Rate

Stream Capability

Bit Rate Control

Video Bit Rate

Day/Night

BLC

HLC

Resolution

Smart Codec

AI Coding

Video

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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; 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; SMD; people counting in area; stay detection; people counting; security exception
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
Power	
Power Supply	12 VDC/PoE (802.3af)/ePoE
Power Consumption	Basic: 2.1 W (12 VDC); 2.6 W (PoE) Max. (H.265 + three streams + intelligence on + IR on): 6.2 W (12 VDC); 7.2 W (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	Φ106 mm × 93.6 mm (Φ4.17" × 3.69")
Net Weight	545 g (1.20 lb)
Gross Weight	710 g (1.57 lb)

Ordering Information Туре Model Description 5MP IR Fixed-focal Eyeball DH-IPC-HDW5541TMP-ASE WizMind Network Camera, PAL 5MP Camera 5MP IR Fixed-focal Eyeball DH-IPC-HDW5541TMN-ASE WizMind Network Camera, NTSC PFB204W Wall mount Bracket PFA139 Junction Box PFA130-E Junction Box Accessories PFA106 Mount Adapter (Optional) PFM321D 12 VDC 1A Power Adapter PFM900-E Integrated Mount Tester TF-P100 MicroSD Memory Card

Accessories

Optional:



Bracket



Junction Box



PFA130-E JunctionBox



PFA106 Mount Adapter



TF-P100 MicroSD Memory Card



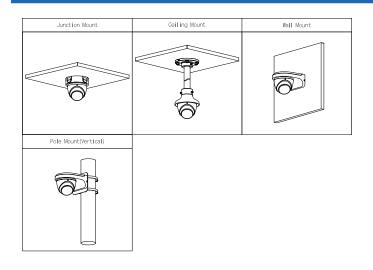
12 VDC 1A Power Adapter

PFM900-E Integrated Mount Tester

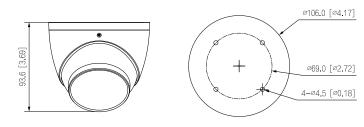
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www.dahuasecurity.com

Wiz Mind | DH-IPC-HDW5541TM-ASE



Dimensions (mm[inch])



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