

DH-IPC-HDW5541T-ZE

5MP IR Vari-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

Face Attributes

With deep learning algorithm, the network camera can recognize face attributes, such as gender, age, expression, glasses, mouth mask, and beard.

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 image definition
- Outputs max. 5MP (2592 \times 1944)@20 fps , and supports 4MP (2688 \times 1520)@25/30 fps
- · Built-in IR LED, max. IR distance: 40 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
- · Supports max. 256 G Micro SD card, built-in Mic
- 12V DC/PoE power supply, ePoE network transmission over long distance, easy for installation
- IP67 protection
- SMD 3.0













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.

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

Technical	Specification	n						Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face
Camera							exposure; face attribute extract, 6 attributes and	
Image Sensor		1/2.7" CMOS					Face Detection	8 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear), mask, beard; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot quality priority; face angle filter; optimization time setting
Max. Resolution		2592 (H) × 1944 (V)						
ROM		128 MB						
RAM		1 GB					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 or stay time and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.005 Lux@F1.5 (Color, 30IRE) 0.0005 Lux@F1.5 (B/W, 30IRE) 0 lux (Illuminator on)						
S/N Ratio		>56 dB					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Illumination Distance		40 m (131.2 ft) (IR LED)						
Illuminator O	n/Off Control	Auto/Manual					Video	
Illuminator Number		2 (IR LED)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°					Smart Codec	supported by the sub stream)
, ,		Rotation: 0°–360°					Smart Codec	Smart H265+/H264+
Lens								Main stream: 2592 × 1944@(1-20 fps)/2688 × 1520@(1-25/30 fps) /1920 × 1080@(1-50/60 fps)
Lens Type		Motorized vari-focal					Video Frame Rate	Sub stream:D1 (1 fps-50/60 fps) Third stream: 1080p (1 fps-25/30 fps) *The values above are the max. frame rates of each
Mount Type		ф14						stream; for multiple streams, the values will be subjected to the total encoding capacity.
Focal Length		2.7 mm-13.5 mm					Stream Capability	3 streams
Max. Apertur	re	F1.5					этеат саравшту	2592×1944; 2688 × 1520; 2560 × 1440; 2304 × 1296
		2592 × 1944: Horizontal: 100°–28° Vertical: 72°–21°					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Field of View		Diagonal: 133°–35° 2688 × 1520: Horizontal: 104°–29° Vertical: 55°–16° Diagonal: 125°–33°					Bit Rate Control	CBR/VBR
							Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 19 kbps-8192 kbps
Iris Type		Auto					Day/Night	Auto (ICR)/Color/B/W
Close Focus [Distance	0.8 m (2.6 ft)					BLC	Yes
	Lens	Detect	Observe	Recognize	Identify		HLC	Yes
DORI	W	64 m	25.6 m	12.8 m	6.4 m		WDR	120 dB
Distance	_	(210.0 ft) 212.0 m	(84.0 ft) 84.8 m	(42.0 ft) 42.4 m	(21.0 ft) 21.2 m		Scene Self-adaptation (SSA)	Yes
Smart Event		(695.5 ft)	(278.2 ft)	(139.1 ft)	(69.6 ft)		White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
IVS		Abandoned object; missing object					Gain Control	Auto/Manual
Heat Map		Yes					Noise Reduction	3D NR
Professional, intelligent				Motion Detection	OFF/ON (4 areas, rectangular)			
. Totessional, intelliger		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection					Region of Interest (RoI)	Yes (4 areas)
IVS (Perimeter Protection)							Electronic Image Stabilization (EIS)	Yes
							Smart Illumination	Yes

Defog	Yes			
Image Rotation	0°/90°/180°/270° (Support with 2592×1944 resolution and lower)			
Mirror	Yes			
Privacy Masking	8 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; network disconnection; IP conflict; illegal access; motion detection; video tampering; defocus detection; scene changing; tripwire; intrusion; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; audio detection; people counting; face detection; voltage detection; people counting in area; stay alarm; people No. exception detection, queue management			
Network				
Network	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			
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; P2P			
User/Host	20 (Total bandwidth: 80 M)			
Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS			
Browser	IE: IE8 and later Chrome Firefox			
Management Software	Smart PSS; DSS; DMSS			
Mobile Phone	IOS; Android			
Certification				
Certification	CE-LVD: EN62368-1 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	12V DC (±30%)/PoE (802.3af)/ePoE			
Power Consumption	Basic power consumption: 1.9W (12V DC); 2.2W (PoE) Max. power consumption (H.265 + max. stream + intelligent function + IR LED+focus): 6W (12V DC); 6.9W (PoE)			

Environment	
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/Less than 95% RH
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67

Structure

Casing	Inner core: Metal Cover: Metal Decoration ring: Plastic Decoration ring
Dimensions	Ф122.0 mm × 108.3 mm (Ф4.8" × 4.3")
Net Weight	740 g (1.6 lb)
Gross Weight	910 g (2.0 lb)

Ordering Information				
Туре	Model	Description		
	DH-IPC- HDW5541TP-ZE	5MP IR Vari-focal Eyeball WizMind Network Camera, PAL		
5140.0	DH-IPC- HDW5541TN-ZE	5MP IR Vari-focal Eyeball WizMind Network Camera, NTSC		
5MP Camera	IPC-HDW5541TP-ZE	5MP IR Vari-focal Eyeball WizMind Network Camera, PAL		
	IPC-HDW5541TN-ZE	5MP IR Vari-focal Eyeball WizMind Network Camera, NTSC		
	PFA130-E	Junction Box		
	PFB203W	Wall Mount		
	PFA106	Mount Adapter		
Accessories	PFB220C	Ceiling Mount		
(Optional)	PFA152-E	Pole Mount		
	PFM321D	DC12V1A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:







PFA130-E Junction Box

PFB203W Wall Mount

PFA106 Mount Adapter







PFB220C Ceiling Mount

PFA152-E Pole Mount

PFM321D DC12V1A Power Adapter





PFM900-E Integrated Mount tester

TF-P100 MicroSD Memory Card

Junction Mount	Wall Mount	Ceiling Mount	Pole Mount
PFA130-E	PFA130-E PFB203W		PFB203W+PFA152-E

Dimensions (mm[inch])



