

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 × 1944) @20 fps, 2MP(1920 × 1080) @60 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 Plus













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	on						Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face	
Camera							exposure; face attribute extract, 6 attributes and 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		
Image Sensor		1/2.7" CMOS						Face Detection	
Max. Resolution		2592 (H) × 1944 (V)							
ROM		128 MB							
RAM		1 GB					Support the counting of enter number, leave		
Scanning System		Progressive					People Counting	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	
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 On/Off Control		Auto/Manual					Video		
Illuminator Number		2 (IR LED) Pan: 0°–360°					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	
Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°					Smart Codec	Smart H265+/H264+	
Lens								Main stream: 2592 × 1944 (1 fps–20 fps) 2688 × 1520 (1 fps–25/30 fps)	
Lens Type		Motorized vari-focal					Video Frame Rate	1920 × 1080 (1 fps–50/60 fps) 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 stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Mount Type		ф14							
Focal Length		2.7 mm-13.5 mm							
Max. Aperture		F1.5	F1.5				Stream Capability	3 streams	
Field of View		2592 × 1944: Horizontal: 100°–28° Vertical: 72°–21° Diagonal: 133°–35° 2688 × 1520:					Resolution	2592×1944; 2688 × 1520; 2560 × 1440; 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)	
		Horizontal: 104°–29° Vertical: 55°–16°					Bit Rate Control	CBR/VBR	
Iris Type		Diagonal: 125°–33°					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 19 kbps-8192 kbps	
Close Focus I	Distance	0.8 m (2.6 ft)					Day/Night	Auto (ICR)/Color/B/W	
Close Focus I				December	ا عام سخنگ ،		BLC	Yes	
500	Lens	Detect 64 m	Observe 25.6 m	Recognize 12.8 m	Identify 6.4 m		HLC	Yes	
DORI Distance	W	(210.0 ft)	(84.0 ft)	(42.0 ft)	(21.0 ft)		WDR	120 dB	
	Т	212.0 m (695.5 ft)	84.8 m (278.2 ft)	42.4 m (139.1 ft)	21.2 m (69.6 ft)		Scene Self-adaptation (SSA)	Yes	
Smart Event							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)				
IVS (Perimeter Protection)		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)	
							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	4 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 Safari: Safari 12 and later	
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 (max. stream): 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			
5MP Camera	DH-IPC- HDW5541TN-ZE	5MP IR Vari-focal Eyeball WizMind Network Camera, NTSC			
SMP 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			
	PFB220C	Ceiling Mount			
Accessories (Optional)	PFA152-E	Pole Mount			
(Optional)	PFM321D	DC12V1A Power Adapter			
	LR1002	ePoE Over Coax Converter			
	PFM900-E	Integrated Mount Tester			
	PFM114	TLC SD Card			

Accessories

Optional:







PFA130-E

Junction Box

PFB203W Wall Mount

PFA106 Mount Adapter







PFB220C Ceiling Mount

PFA152-E Pole Mount

PFM321D DC12V1A Power Adapter







LR1002 ePoE Over Coax Converter

PFM900-E Integrated Mount

PFM114 TLC SD card

Junction Mount	Wall Mount	Ceiling Mount	Pole Mount
PFA130-E	PFB203W	PFA106+PFB220C	PFB203W+PFA152-E

Dimensions (mm[inch])



