



DH-IPC-HDW5442T-ZE

4MP 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.

- 4MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520) @30 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 ±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						Support the counting of enter number, leave
Camera							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	
Image Sensor		1/1.8" CMOS						People Counting
Max. Resolution		2688 (H) × 1520 (V)						
ROM		128 MB					configuration. Count number of people or stay time and link alarm	
RAM		1GB					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to
Scanning Sys	tem	Progressive					-	event videos
Electronic Sh	utter Speed	Auto/Manual 1/3 s-1/100,000 s					Video	
Min. Illumination		0.003 Lux@F1.8 (Color, 30IRE) 0.0003 Lux@F1.8 (B/W, 30IRE) 0 Lux (Illuminator on)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
S/N Ratio		>56 dB					Smart Codec	Smart H265+/H264+
Illumination Distance		40 m (131.2 ft) (IR LED)					Video Frame Rate	Main stream: 2688 × 1520 (1 fps–25/30 fps) 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.
Illuminator On/Off Control		Auto/Manual						
Illuminator Number		2 (IR LED)						
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Stream Capability	3 streams
Lens		Notation. 0 300					Resolution	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)
Lens Type		Motorized vari-focal						
Mount Type		ф14					Bit Rate Control	CBR/VBR
Focal Length		2.7 mm-12 mm					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 19 kbps-8192 kbps
Max. Apertui	re	F1.8					Day/Night	Auto (ICR)/Color/B/W
Field of View	,	Horizontal: 114°–47° Vertical: 62°–26°					BLC	Yes
Iris Type		Diagonal: 136°–54° Auto					HLC	Yes
Close Focus I	Distance	1.2 m (3.9 ft)					WDR	140 dB
	Lens	Detect	Observe	Recognize	Identify		Scene Self-adaptation (SSA)	Yes
DORI Distance	W	58 m (190.3 ft)	23 m (75.5 ft)	12 m (39.4 ft)	6 m (19.7 ft)		White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
	Т	131 m (429.8 ft)	52 m (170.6 ft)	26 m (85.3 ft)	13 m (42.7 ft)		Gain Control	Auto/Manual
Smart Eve	ent						Noise Reduction	3D NR
IVS		Abandoned object; missing object					Motion Detection	OFF/ON (4 areas, rectangular)
Heat Map		Yes					Region of Interest (RoI)	Yes (4 areas)
Professional, intelligent					Electronic Image Stabilization (EIS)	Yes		
IVS (Perimete	IVS (Perimeter Protection)		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people				Smart Illumination	Yes
		gathering; parking detection					Defog	Yes
Face Detection		Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face 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,					Image Rotation	0°/90°/180°/270° (Support with 2688 × 1520 resolution and lower)
							Mirror	Yes
							Privacy Masking	4 areas
							Audio	

Audio

methods: real-time snapshot, optimization snapshot,

quality priority; face angle filter; optimization time setting

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		

Casing	Inner core: Metal Cover: Metal Decoration ring: Plastic Decoration ring
Dimensions	Φ122.0 mm × 108.3 mm (Φ4.8" × 4.3")
Net Weight	740 g (1.6 lb)

910 g (2.0 lb)

Structure

Gross Weight

Ordering Information					
Туре	Model	Description			
	DH-IPC- HDW5442TP-ZE	4MP IR Vari-focal Eyeball WizMind Network Camera, PAL			
AMD Comments	DH-IPC- HDW5442TN-ZE	4MP IR Vari-focal Eyeball WizMind Network Camera, NTSC			
4MP Camera	IPC-HDW5442TP-ZE	4MP IR Vari-focal Eyeball WizMind Network Camera, PAL			
	IPC-HDW5442TN-ZE	4MP 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			
	PFM321D	DC12V1A Power Adapter			
	LR1002	ePoE Over Coax Converter			
	PFM900-E	Integrated Mount Tester			
	PFM114	TLC SD Card			

Accessories

Optional:







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 tester



PFM114 TLC SD card

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

Dimensions (mm[inch])



