



DH-IPC-HDW5241T-ZE

2MP 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 dustproof 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

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080) @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 DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Tripwire, intrusion, 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, face detection, face attributes and people counting
- · 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













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/weekly/daily reports to meet your requirements.

Dahua ePoE technology provides a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

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/weekly/daily reports.			
Image Sensor	1/2.8"2Megapixel progressive CMOS				People Counting	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	
Max. Resolution	1920 (H) × 1080 (V)						
ROM	128 MB						
RAM	512 MB						
Scanning System	Progressive				Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s				Ü		
Min. Illumination	0.002 Lux @F1.5				Video	Video	
S/N Ratio	> 56 dB				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only	
Illumination Distance	40 m (131.2	40 m (131.2 ft) (IR LED)				supported by the sub stream)	
Illuminator On/Off Control	Auto/Manua	Auto/Manual			Smart Codec	Smart H265+/H264+	
Illuminator Number	2 (IR LED)				Video Frame Rate	Main stream: 1080p (1 fps–25/30 fps) Sub stream: D1 (1 fps–25/30 fps) Third stream: 1080p (1 fps–25/30 fps)	
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Stream Capability	3 streams	
Lens	Materized veri focal				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (354 × 288/354 × 240)	
Lens Type	Motorized vari-focal				Dit Data Cantual		
Mount Type	ф14				Bit Rate Control	CBR/VBR	
Focal Length	2.7 mm-13.5 mm				Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 19 kbps-8192 kbps	
Max. Aperture					Day/Night	Auto (ICR)/Color/B/W	
Field of View	Horizontal: 109°–30° Vertical: 57°–17° Diagonal: 131°–35°				BLC	Yes	
Iris Type	Auto				HLC	Yes	
Close Focus Distance	0.8 m (2.6 ft)				WDR	120 dB	
	Lens Detec	t Observe	Recognize	Identify	Scene Self-adaptation	Yes	
DORI Distance	W 44.1 r		8.8 m (28.9 ft)	4.4 m (14.4 ft)	White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
	T 146.2 (479.7		29.2 m (95.8 ft)	14.6 m (47.9 ft)	Gain Control	Auto/Manual	
Smart Event					Noise Reduction	3D DNR	
IVS	Abandoned o	bject; missing ol	bject		Motion Detection	OFF/ON (4 areas, rectangular)	
Heat Map Yes			Region of Interest (RoI)	Yes (4 areas)			
Professional, intellige	nt				Electronic Image		
Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection		Stabilization (EIS)	Yes				
	of vehicle and human); loitering detection; people gathering; parking detection		people	Smart Illumination	Yes		
		n; track; optimiz			Defog	Yes	
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		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support with 1080p resolution and lower)				
		Mirror	Yes				

three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle Privacy Masking

4 areas

setting: face, single inch photo;

filter; optimization time setting

Audio

Built-in MIC	Yes	
Audio Compression	G.711a; G.711Mu; G.726; AAC; 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		
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; Genetec; P2P		
User/Host	20 (Total bandwidth: 80 M)		
Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; 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
	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

Power

Power Supply

Protection Grade

Power Consumption	< 0.9VV
Environment	
Operating Conditions	-30°C to $+60^{\circ}\text{C}$ (-22°F to $+140^{\circ}\text{F}$)/Less than 95% RH
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)

IP67

12V DC (±30%)/PoE (802.3af)

Structure

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)
Gross Weight	910 g (2.0 lb)

Ordering Information			
Туре	Model	Description	
	DH-IPC- HDW5241TP-ZE	2MP IR Vari-focal Eyeball WizMind Network Camera, PAL	
2MP Camera	DH-IPC- HDW5241TN-ZE	2MP IR Vari-focal Eyeball WizMind Network Camera, NTSC	
2MP Camera	IPC-HDW5241TP-ZE	2MP IR Vari-focal Eyeball WizMind Network Camera, PAL	
	IPC-HDW5241TN-ZE	2MP 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])

