

# DH-IPC-HDBW5541E-ZE

5MP IR Vari-focal Dome 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 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.

#### **Face Attributes**

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

## **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.

- · 1/2.7" 5Megapixel progressive scan CMOS
- · ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 20 fps@2592 × 1944, 50/60 fps@1080P (1920 × 1080)
- · WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.7 mm-13.5 mm motorized lens
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 40 m
- · Micro SD memory, IP67, IK10













#### **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 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, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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			General Intelligence			
Camera			Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal		
Image Sensor	1/2.7" 5Me	1/2.7" 5Megapixel progressive scan CMOS			Company Hotalli ann an	Access, Storage anomaly
Max. Resolution	2592 (H) ×	2592 (H) × 1944 (V)			General Intelligence Heat Map	Object Abandoned/Missing Yes
RAM/ROM	1 GB/128 N	1 GB/128 MB			Video	
Scanning System	Progressive				Compression	H.265,H.264,H.264B,H.264H, MJPEG (only supported by sub stream)
Electronic Shutter Speed	Auto/Manu	al, 1/3 s–1/100	000 s		Smart Codec	Smart H.265+/ Smart H.264+
S/N Ratio	> 56 dB				Streaming Capability	3 Streams
Minimum Illumination		0.005 Lux@F1.5 (Color, 1/3s, 30IRE), 0.001 Lux@F1.5 (B&W), 0Lux (IR on)				2592 × 1944/2688 × 1520/2560 × 1440/2304 ×
Illumination Distance		to 40 m (131 f	t)		Resolution	1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)
Illuminator On/Off Contro	Auto/Manu	al				
Illuminator Number	3(IR LED)					Main Stream: 2592 × 1944 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)
Lens	NA stanion d				Frame Rate	Sub Stream: D1 (1 fps–20/30 fps) D1 (1 fps–50 fps)
	Lens Type Motorized vari-focal			Third Stream: 1080P (1 fps–17 fps)		
Mount Type	Board-in				Bit Rate Control	CBR/VBR
Focal Length  Max. Aperture				Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps	
Max. Aperture		2 1/- 720 240 /21	F02 1044)		Day/Night	Auto(ICR)/Color/B/W
Angle of View	Angle of View H: 100°-28°, V: 72°-21° (2592 × 1944) H: 104°-29°, V: 55°-16° (2688 × 1520)			BLC Mode	BLC/HLC/WDR (120 dB)	
Aperture Type	Auto				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Close Focus Distance	0.8 m (2.62	ft)			Gain Control	Auto/Manual
Len	s Detect	Observe	Recognize	Identify	Noise Reduction	3D DNR
DORI Distance W	64m(210ft	26m(85ft)	13m(43ft)	6m(20ft)	Motion Detection	Off/On (4 Zone, Rectangle)
Т	212m(696f	85m(279ft)	42m(138ft)	21m(69ft)	Region of Interest	Off/On (4 Zone)
Pan/Tilt/Rotation					Electronic Image Stabilization (EIS)	Yes
Pan/Tilt/Rotation Range	Pan/Tilt/Rotation Range Pan: 0*-355*; Tilt: 0*-65*; Rotation: 0*-355*			Smart Illumination	Yes	
Artificial Intelligence					Defog	Yes
		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, quality priority face and filter; optimization time			Flip	0°/90°/180°/270°
	8 expression				Mirror	Off/On
Face Detection	confusion				Privacy Masking	Off/On (4 Area, Rectangle)
	methods: r				Audio	
	quality priority; face angle filter; optimization time setting		Audio Compression	G.711a, G.711Mu, G.726, AAC, G.723		
	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection		Alarm			
Perimeter Protection  of vehicle and human); loitering detection; people gathering; parking detection  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		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;intrusion;tripwire;aban doned object;missing object;fast moving;parking detection;loitering detection;people gathering;audio detection;people counting;face detection;People counting in area;Stay alarm;People No. exception detection;Queue Management			
	Support qu	and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time		Network		
	and link alarm		aser or people or stay time		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;PPPoE;802.1x;SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
User/Host	20 Users
Storage	NAS;FTP;SFTP;Dahua Cloud;Micro SD card 256 GB
Browser	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Management Software	Smart PSS, DSS, DMSS
Mobile Phone	iOS, Android

## Certifications

Certifications	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

# Interface

Audio Interface	1/1 channel In/Out
Alarm	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC

# Electrical

Power Supply	DC 12V (±30%), AC 24V (±30%), PoE (802.3af)
Power Consumption	<12.4W

# Environmental

Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH
Storage Conditions	-40° C to +60° C (-40° F to +140° F)
Protection Grade	IP67,IK10

## Construction

Casing	Metal
Dimensions	Φ159.0 mm × 117.9 mm (6.26" × 4.64")
Net Weight	0.95 kg (2.09 lb)
Gross Weight	1.20 kg (2.65 lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HDBW5541EP-ZE	5MP IR Vari-focal Dome WizMind Network Camera, PAL		
5MP camera	DH-IPC- HDBW5541EN-ZE	5MP IR Vari-focal Dome WizMind Network Camera, NTSC		
	IPC-HDBW5541EP- ZE	5MP IR Vari-focal Dome WizMind Network Camera, PAL		
	IPC-HDBW5541EN- ZE	5MP IR Vari-focal Dome WizMind Network Camera, NTSC		

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	PFA138	Junction Box
	PFB210W	Wall mount
Accessories (optional)	PFB300C	Ceiling mount
	PFA152-E	Pole mount
	PFA101	Mount adapter
	PFB201C	In-ceiling mount

# **Accessories**

## **Optional:**









PFB300C Ceiling mount

PFA152-E

PFA101 Mount adapter

In-ceiling Mount	Junction Mount	Pole Mount
PFB201C	PFA138	PFB210W + PFA152-E
Ceiling Mount	Wall f	Mount
PFA101 + PFB300C	PFB210W(Indoor)	PFB210W(Outdoor)

# Dimensions (mm[inch])

