

# DH-IPC-HDBW5541E-Z5E

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
- $\cdot$  7 mm-35 mm motorized lens
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 80 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" 5Megapixel progressive scan CMOS						Access,Storage anomaly
Max. Resolution		2592 (H) × 1944 (V)					General Intelligence	Object Abandoned/Missing
RAM/ROM	RAM/ROM		1 GB/128 MB				Heat Map	Yes
Scanning System		Progressive	Progressive				Video	HOSE HOSE HOSE HOSE HOSE HIS
Electronic Shutte	er Speed	Auto/Manual	Auto/Manual, 1/3 s-1/100000 s				Compression	H.265,H.264,H.264B,H.264H, MJPEG (only supported by sub stream)
S/N Ratio		> 56 dB	> 56 dB				Smart Codec	Smart H.265+/ Smart H.264+
Minimum Illumin	ation	0.003 Lux@F	0.003 Lux@F1.3				Streaming Capability	3 Streams
Illumination Dista	ance	Distance up t	Distance up to 80 m (262 ft)				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)
Illuminator On/O	ff Control		Auto/Manual					
Illuminator Numb	per	3(IR LED)						Main Stream: 2592 × 1944 (1 fps–20 fps)
Lens							Frame Rate	2560 × 1440 (1 fps-25/30 fps) 1920 × 1080 (1 fps-50/60 fps)
Lens Type		Motorized va	Motorized vari-focal					Sub Stream: D1 (1 fps-20/30 fps) D1 (1 fps-50 fps)
Mount Type		Board-in	Board-in					Third Stream: 1080P (1 fps–17 fps)
Focal Length		7 mm-35 mn	7 mm–35 mm				Bit Rate Control	CBR/VBR
Max. Aperture			F1.3( Constant F1.3 throughout the zoom range)				Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
Angle of View	Angle of View		H: 31°-9°, V: 23°-7° (2592 × 1944) H: 32°-9°, V: 18°-5° (2688 × 1520)				Day/Night	Auto(ICR)/Color/B/W
Aperture Type		Auto (HALL)	Auto (HALL)				BLC Mode	BLC/HLC/WDR (120 dB)
Close Focus Dista	ance	0.4 m-2.0 m	0.4 m-2.0 m (1.31 ft-6.56 ft)				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
	Lens	Detect	Observe	Recognize	Identify		Gain Control	Auto/Manual
DORI Distance	W	190m(623ft)	76m(249ft)	38m(125ft)	19m(62ft)		Noise Reduction	3D DNR
	Т	620m(2034ft)	248m(814ft)	124m(407ft)	62m(203ft)		Motion Detection	Off/On (4 Zone, Rectangle)
Pan/Tilt/Rotat	Pan/Tilt/Rotation						Region of Interest	Off/On (4 Zone)
Pan/Tilt/Rotation Range Pan: 0°–355°; Tilt: 0°–65°; Rotation			otation: 0°–35	.5°		Electronic Image Stabilization (EIS)	Yes	
Artificial Intelligence		, ,				Smart Illumination	Yes	
	.8	Face detection	Face detection; track; optimization; snapshot;				Defog	Yes
		report high q	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,				Flip	0°/90°/180°/270°
Face Detection							Mirror	Off/On
Face Detection		setting: face,	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				Privacy Masking	Off/On (4 Area, Rectangle)
								Off) Off (4 Area, nectangle)
		setting					Audio	C 744 - C 744M, C 72C AAC C 722
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				Audio Compression	G.711a, G.711Mu, G.726, AAC, G.723
Perimeter Protection							Alarm	
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				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	

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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;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					
Type	Part Number	Description			
	DH-IPC- HDBW5541EP-Z5E	5MP IR Vari-focal Dome WizMind Network Camera, PAL			
5MP camera	DH-IPC- HDBW5541EN-Z5E	5MP IR Vari-focal Dome WizMind Network Camera, NTSC			
	IPC-HDBW5541EP- Z5E	5MP IR Vari-focal Dome WizMind Network Camera, PAL			
	IPC-HDBW5541EN- Z5E	5MP IR Vari-focal Dome WizMind Network Camera, NTSC			

Rev 001.001 

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

# Accessories

# **Optional:**









PFB300C Ceiling mount

PFA152-E Pole mount

PFA101 Mount adapter

In-ceiling Mount	Junction Mount	Pole Mount	
PFB201C	PFA138	PFB210W + PFA152-E	
0			
Ceiling Mount	Wall Mount		
PFA101 + PFB300C	PFB210W(Indoor)	PFB210W(Outdoor)	

# Dimensions (mm[inch])



