



# DH-IPC-HDBW5442E-ZE

4MP 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.

#### **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.

### **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.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition
- Outputs max. 4 MP (2688 × 1520)@30 fps.
- Built-in IR LED, and the max. illumination distance is 45 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- · Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Three switchable intelligent resources: IVS, face detection, and people counting.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD
- 24 VAC/12 VDC/PoE power supply, easy for installation.
- ePoE; IP67 and IK10 protection.
- SMD 3.0.













#### 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 cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

#### 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 ±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						Tripwire people counting and people counting in area,
Camera	•						People Counting	generating and exporting report (day/month/year); queue management, generating and exporting report (day/month); 4 rules can be set for tripwire, people counting in area and queue management Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Image Senso	Image Sensor 1/1.8" CMOS							
Max. Resolution		2688 (H) × 1520 (V)					Smart Search	
ROM		128MB					Video	
RAM		1GB					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported
Scanning Sys	Scanning System		Progressive				Smart Codec	by the sub stream)  Smart H.265+; Smart H.264+
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.003 lux@F1.8 (Color, 30 IRE) 0.0003 lux@F1.8 (B/W, 30 IRE) 0 lux (Illuminator on)					Al Coding  Al H.265; Al H.264  Main stream: 2688 × 1520@(1 fps-25/30 fps) Sub stream: D1@(1 fps-50/60 fps) Third stream: 1080p@(1 fps-50/60 fps) *The values above are the max. frame rates of each	
S/N Ratio	S/N Ratio		>56 dB					*The values above are the max. frame rates of each
Illumination Distance		45 m (147.64 ft) (IR)					stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Illuminator O	Illuminator On/Off Control		Auto				Stream Capability	3 streams
Illuminator N	Illuminator Number		3 (IR LED)				Resolution	2688 × 1520; 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)
Pan/Tilt/Rota	Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–65° Rotation: 0°–355°				Bit Rate Control	CBR/VBR
Lens	Lens		notation. 0 –333				Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 32 kbps-8192 kbps
Lens Type		Motorized vari-focal					Day/Night	Auto(ICR)/Color/B/W
Lens Mount	Lens Mount		ф14				BLC	Yes
Focal Length		2.7 mm-12 mm					HLC	Yes
Max. Aperture		F1.8					WDR	140 dB
Field of View	Field of View		Horizontal: 114°–47° Vertical: 62°–26°				Scene Self-adaptation (SSA)	Yes
Iris Control		Diagonal: 136°–56° Auto					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Close Focus Distance		1.2 m (3.94 f	+1				Gain Control	Auto; manual
ciose rocus				Di	lala sarifi.		Noise Reduction	3D NR
	Lens	Detect	Observe	Recognize	Identify		Motion Detection	OFF/ON (4 areas, rectangular)
DORI Distance	W	57.5 m (188.65 ft)	23.0 m (75.46 ft)	11.5 m (37.73 ft)	5.7 m (18.70 ft)		Region of Interest (RoI)	Yes (4 areas)
	Т	130.7 m (428.81 ft)	52.3 m (171.59 ft)	26.1 m (85.63ft)	13.1 m (42.98ft)		Image Stabilization	Electronic Image Stabilization (EIS)
Smart Eve	Smart Event						Smart Illumination	Yes
IVS		Abandoned object; missing object					Defog	Yes
Heat Map		Yes					Image Rotation	0°/90°/180°/270°
Professional, intellige							Mirror	Yes
Froressional, intellige		Intrusion, tripwire, fast moving (the three functions					Privacy Masking	8 areas
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people					Audio	
SMD 3.0		gathering, and parking detection  Less false alarm, longer detection distance					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Face Detection		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting					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; input error; intensity change; people counting; face detection; voltage detection; people counting in area; stay detection; people number error detection; queue management

Network				
Network Port	RJ-45 (10/100 Enhancement Base-T)			
SDK and API	Yes			
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security log: IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade			
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTM SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; Bonjour			
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestor			
User/Host	20 (Total bandwidth: 88 M)			
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS			
Browser	IE: IE8 and later Chrome Firefox			
Management Software	Smart PSS; DSS; DMSS			
Mobile Client	iOS; Android			
Certification				
Certifications	CE-LVD: EN 62368-1 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			
Port				
Audio Input	1 channel ( RCA port)			
Audio Output	1 channel ( RCA port)			
Alarm Input	1 channels in: 5 mA 3 V–5 VDC			
Alarm Output	1 channel out: 300 mA 12 VDC			
Power				
Power Supply	12 VDC (±30%)&24 VAC (±30%); PoE (802.3af); ePoE			
Power Consumption	Basic: 4.9 W (12 VDC); 5.1 W (24 VAC); 5.2 W (PoE) Max. (max. stream + intelligence + IR on + focus): 12.4 to (12 VDC); 11.9 W (24 VAC); 11.6 W (PoE)			
Environment				
Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)			
Operating Humidity	≤ 95%			
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Protection	IP67; IK10			
Structure				
Casing	Metal + plastic			
Product Dimensions	Ф159 mm × 117.9 mm (6.26" × 4.64")			
Net Weight	950 g (2.09 lb)			
Gross Weight	1200 g (2.65 lb)			

Ordering Information							
Туре	Model	Description					
4MP Camera	DH-IPC-HDBW5442EP-ZE	4MP IR Vari-focal Dome WizMind Network Camera, PAL					
4IVIP Camera	DH-IPC-HDBW5442EN-ZE	4MP IR Vari-focal Dome WizMind Network Camera, NTSC					
	PFA138	Junction Box Bracket					
	PFB211W	Wall Mount Bracket					
	PFB300C	Ceiling Mount Bracket					
	PFA152-E	Pole Mount Bracket					
Accessories (Optional)	PFB201C	In-ceiling Mount Bracket					
(Ортіонаі)	PFA101	Mount Adapter					
	PFM321D	12 VDC 1A Power Adapter					
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender					
	PFM900-E	Integrated Mount Tester					

## **Accessories**

# Optional:



PFA138 Junction Box Bracket



PFB211W Wall Mount Bracket



PFB300C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



PFB201C In-ceiling Mount Bracket



PFM321D 12 VDC 1A Power Adapter

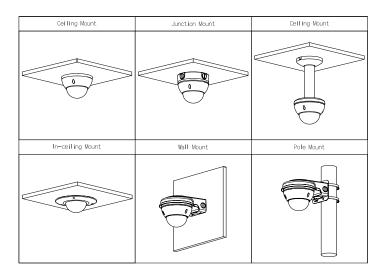


LR1002-1ET/1EC Single-port Long Reach Ethernet Over Coax Extender



PFM900-E Integrated Mount Tester





# Dimensions (mm[inch])

