



# DH-IPC-HDBW5241E-Z5E

2MP 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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition
- Outputs max. 2 MP (1920 × 1080)@30 fps.
- Built-in IR LED, and the max. illumination distance is 100 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								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
Image Sensor		1/2.8" CMOS						counting in area and queue management
Max. Resolution		1920 (H) × 1080 (V)					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
ROM		128 MB					Video	
RAM		512 MB					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported
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					Al Coding	AI H.265; AI H.264
Min. Illumination		0.0015 lux@F1.3 (Color, 30 IRE) 0.0002 lux@F1.3 (B/W, 30 IRE) 0 lux (Illuminator on)					Main stream: 1920 × 1080@(1 fps–2 Sub stream: D1@(1 fps–25/30 fps)  Video Frame Rate  Main stream: 1920 × 1080@(1 fps–25/30 fps)  Third stream: 1080p@(1 fps–25/30 f	Main stream: 1920 × 1080@(1 fps-25/30 fps)
S/N Ratio		>56 dB						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.
Illumination Distance		100 m (328.08 ft) (IR)						
Illuminator On/Off Control		Auto					Stream Capability	3 streams
Illuminator Number		3 (IR LED) Pan: 0°-355°					Resolution	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/Rotation Range		Tilt: 0°-65° Rotation: 0°-355°					Bit Rate Control	CBR/VBR
Lens							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		Module					BLC	Yes
Focal Length		7 mm-35 mm					HLC	Yes
Max. Aperture		F1.3 (Constant)					WDR	120 dB
Field of View		Horizontal: 33°-10° Vertical: 19°-5° Diagonal: 38°-11°					Scene Self-adaptation (SSA)	Yes
Iris Control		Auto					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Close Focus Distance		0.3–2 m (0.98 ft–6.56 ft)					Gain Control	Auto; manual
	Lens	Detect	Observe	Recognize	Identify		Noise Reduction	3D NR
DORI Distance	W	131.0 m	52.4 m	26.2 m	13.1 m		Motion Detection	OFF/ON (4 areas, rectangular)
	**	(429.79 ft)	(171.91 ft)	(85.96 ft)	(42.98 ft)		Region of Interest (RoI)	Yes (4 areas)
	Т	427.6 m (1402.89 ft)	171.0 m (561.02 ft)	85.5 m (280.51 ft)	42.7 m (140.09 ft)		Image Stabilization	Electronic Image Stabilization (EIS)
Smart Eve	ent						Smart Illumination	Yes
IVS		Abandoned object; missing object					Defog	Yes
Heat Map		Yes					Image Rotation	0°/90°/180°/270°
Professio	nal, intellige	ent					Mirror	Yes
IVS (Perimeter Protection)			Intrusion, tripwire, fast moving (the three functions				Privacy Masking	8 areas
		support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection					Audio	
SMD 3.0		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; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; external alarm; SMD; people counting in area; stay detection; people counting; security exception
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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 logs IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; truste 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; Milestone		
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): 10.5 V (12 VDC); 13.5 W (24 VAC); 13 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					
2MP Camera	DH-IPC-HDBW5241EP-Z5E	2MP IR Vari-focal Dome WizMind Network Camera, PAL					
ZIMP Camera	DH-IPC-HDBW5241EN-Z5E	2MP 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



Mount Adapter



PFM321D 12 VDC 1A Power Adapter

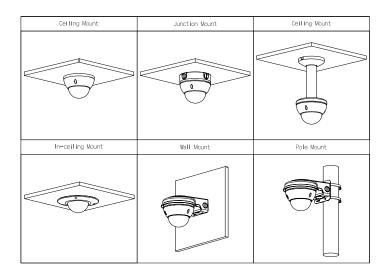


LR1002-1ET/1EC Single-port Long Reach Ethernet Over Coax Extender



PFM900-E Integrated Mount Tester





# Dimensions (mm[inch])

