

# DH-IPC-HDBW5241E-ZE

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 image.
- Outputs max. 2 MP (1920 × 1080)@30 fps.
- Built-in IR LED, and the max. illumination distance is 40 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 card.
- 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  $\pm 30\%$  (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



## Wiz Mind | DH-IPC-HDBW5241E-Z5E

### **Technical Specification**

Camera						
Image Sensor		1/2.8" CMOS				
Max. Resolution		1920 (H) × 1080 (V)				
ROM		128 MB				
RAM		512 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination		0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>56 dB				
Illumination Distance		30 m (98.43 ft) (IR)				
Illuminator On/Off Control		Auto				
Illuminator Number		3 (IR LED)				
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–65° Rotation: 0°–355°				
Lens						
Lens Type		Motorized vari-focal				
Lens Mount		φ14				
Focal Length		2.7 mm–13.5 mm				
Max. Aperture		F1.5				
Field of View		Horizontal: 109°–30° Vertical: 57°–17° Diagonal: 131°–35°				
Iris Control		Auto				
Close Focus Distance		0.8 m (2.62 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	W	44.1 m (144.69 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)	
	т	146.2 m (479.66 ft)	58.4 m (191.60 ft)	29.2 m (85.80 ft)	14.6 m (47.90 ft)	
Smart Event						

Smart Event

IVS	Abandoned object; missing object				
Heat Map	Yes				
Professional, intelligent					
IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection				
SMD 3.0	Less false alarm, longer detection distance				
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				

	Tripwire people counting and people counting in area, generating and exporting report (day/month/year);		
People Counting	queue management, generating and exporting report (day/month); 4 rules can be set for tripwire, people counting in area and queue management		
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos		
Video			
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)		
Smart Codec	Smart H.265+; Smart H.264+		
AI Coding	AI H.265; AI H.264		
Video Frame Rate	Main stream: 1920 × 1080@(1 fps-25/30 fps) Sub stream: D1@(1 fps-25/30 fps) 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.		
Stream Capability	3 streams		
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 32 kbps–8192 kbps		
Day/Night	Auto (ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
Scene Self-adaptation (SSA)	Yes		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Auto; manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	Yes (4 areas)		
Image Stabilization	Electronic Image Stabilization (EIS)		
Smart Illumination	Yes		
Defog	Yes		
Image Rotation	0°/90°/180°/270°		
Mirror	Yes		
Privacy Masking	8 areas		
Audio			
Audio Compression	PCM; G.711a; G.711Mu; G.726; 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; input error; intensity change; people counting; face detection; voltage detection; people counting in area; stay detection; people number error detection; queue management		



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#### Network Network Port RJ-45 (10/100 Enhancement Base-T) SDK and API Yes Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; Cyber Security IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Network Protocol 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) FTP; SFTP; Micro SD card (support max. 256 GB); NAS Storage IE: IE8 and later Browser Chrome Firefox Smart PSS: DSS: DMSS Management Software Mobile Client iOS: Android Certification CE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive Certifications 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 1 channel out: 300 mA 12 VDC Alarm Output Power

Power Supply Basic: 4.6 W (12 VDC); 4.9 W (24 VAC); 4.9 W (PoE) Max. (max. stream + intelligence + IR on + focus): 11.8 W **Power Consumption** (12 VDC); 11.5 W (24 VAC); 11.3 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** Φ159 mm × 117.9 mm (6.26" × 4.64")

950 g (2.09 lb)

1200 g (2.65 lb)

Bracket 12 VDC (±30%)&24 VAC (±30%); PoE (802.3af); ePoE PFA152-E Pole Mount Bracket

LR1002-1ET/1EC

Single-port Long Reach Ethernet Over Coax Extender

In-ceiling Mount Bracket



PFM900-E Integrated Mount Tester



PFM321D 12 VDC 1A Power Adapter

Accessories	

**Ordering Information** 

Model

PFA138

PFB211W

PFB300C

PFA152-E

PFB201C

PFA101

PFM321D

PFM900-E

LR1002-1ET/1EC

DH-IPC-HDBW5241EP-ZE

DH-IPC-HDBW5241EN-7E

Туре

2MP Camera

Accessories

(Optional)

#### Optional:



PFA138

Wall Mount



PFB211W

Wall Mount



PFB300C Ceiling Mount Bracket



Description

Network Camera, PAL

Network Camera, NTSC

Junction Box Bracket

Wall Mount Bracket

Ceiling Mount Bracket

In-ceiling Mount Bracket

12 VDC 1A Power Adapter

Integrated Mount Tester

over Coax Extender

Single-port Long Reach Ethernet

Pole Mount Bracket

Mount Adapter

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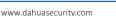


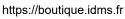










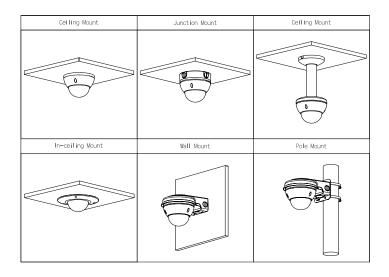




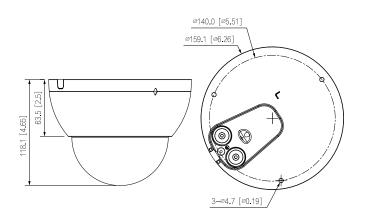
Net Weight

Gross Weight

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### Dimensions (mm[inch])



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