

# DH-IPC-HDBW7442E1-Z4-X

4MP IR Dome WizMind Network Camera



Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,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**

Driven by deep learning algorithms, Dahua WizMind X Series network camera supports various intelligent functions, meeting the requirements of a wide variety of scenes. The camera can accurately recognize people, motor vehicles and non-motor vehicles. It also supports face recognition, PPE detection, smart sound detection, privacy protection, ANPR, and parking space management. 2 intelligent functions can be enabled at the same time. The camera adopts advanced image processing AI-Powered Image technology, has a high frame rate and the Deeplight night vision effect, and works with ultra-low streams. It is also dustproof, waterproof and vandal-proof, and is certified as IP67 and IK10 (the type of protection varies depending on the model).

#### Functions

#### **AI-Powered Image**

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

#### Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes. The camera can count targets by directions (A>B, B>A, or A<>B), and export the report.

#### ANPR

With high-performance GPU chip, deep learning algorithm, and lots of sample training learning, Dahua ANPR technology can automatically collect and recognize the vehicle information, including license plate, logo, vehicle type, and vehicle color.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@50/60 fps.
- Built-in IR LED, and the max. illumination distance is 80 m.
- Time-Division Exposure technology ensures that when the device is taking multiple snapshots of more than one targets, the quality of the snapshots will not be affected. It can also be used to adjust the brightness, speed and more of targets, to produce high quality snapshots.
- ROI, flexible coding, applicable to various bandwidth and storage environments.
- Two intelligent functions can be enabled at the same time, such as face recognition+people counting, face detection+people counting and PPE Detection+IVS.
- With deep learning algorithm, it supports: face recognition, face detection, IVS, people counting, video metadata, PPE Detection, parking space management and ANPR, etc.
- Privacy Protection: Mosaics can be automatically placed over the face or body of a person to protect their privacy.
- Built-in Hi-Fi large-diameter speaker covers an auditory range of 20 meters.
- Sound Management: With its built-in dual MICs and Dahua noise reduction algorithms, the camera supports the sound management function, using it to collect vocals, adaptively reduce noise, and filter non-human voices.
- Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 512 G Micro SD card.
- Built-in dual MICs; 1-ch speaker; support two-way talk.
- 12 VDC/24VAC/PoE+ (802.3at)/ePoE power supply, 12 VDC power output, max. current 165 mA and peak current is 700 mA, easy for installation.
- IP67 and IK10 protection, Anti-Corrosion coating (optional).



#### Parking Space Management

With Parking Space Management, the camera can count the number of parked vehicles and parking spaces available in open parking lots and planned parking lots. It can extract and display the status of parking spaces, so as to facilitate the management of parking spaces and improve parking efficiency. Wiz Mind

#### **PPE Detection**

With the PPE Detection function, the camera can detect attributes including workwear, hat,face mask,apron,gloves,shoe covers, boots, seatbelt, safety vest, and determine whether PPE requirements are met. Match attributes alarm or mismatch attributes alarm can be triggered according to the alarm settings.

#### **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.

#### **Privacy Protection**

Dahua Privacy Protection technology can mask the detected face and human body to protect the privacy of some special targets.

#### 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 work normally 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**

Camera	
Image Sensor	1/1.8" CMOS
Max. Resolution	2688 (H) × 1520 (V)
ROM	8 GB
RAM	4 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	0.0006 lux@F1.6 (Color, 30 IRE) 0.0003 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	80 m (262.47 ft) (IR)
Illuminator On/Off Control	Auto
Illuminator Number	3 (IR LED)
Angle Adjustment	Pan: 0-355° Tilt:0-80° Rotation: 0-355°
Lens	
Lens Type	Motorized vari-focal
Lens Mount	Module
Focal Length	8 mm–32 mm
Max. Aperture	F1.6

Field of View	,	H: 43°–15°; V	: 24°–9°; D: 50°	°–17°	
Iris Control		Auto			
Iris Control T	ype	P-Iris			
Close Focus I	Distance	1.5 m (4.92 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	147.3 m (493.28 ft)	58.9 m (193.24 ft)	29.5 m (96.78 ft)	14.7 m (48.23 ft)
	т	395 m (1295.93 ft)	158 m (518.37 ft)	79 m (259.19 ft)	39.5 m (129.59 ft)
Smart Eve	Smart Event				
IVS		Abandoned o	bject; missing o	object	
Intelligen	ce				
IVS (Perimete	er 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; privacy protection		ection people	
Face Detection	on	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; 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; privacy protection			
Face Recogni	ition	There are two modes: General mode and counting mode. General mode: Face detection; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face or one inch photo; snapshot strategies (recognition priority and optimization snapshot); face angle filter; optimization time setting; privacy protection. Supports adding 5 group face databases; registering person one by one or in batches; setting face similarity; and supports face comparison with the face database containing up to 200,000 face pictures. Counting mode: Offers advanced customer counter, filters out specified faces from the face database, and exports reports both before and after removing duplicate faces.			
PPE Detectio	n	Triggers alarms when the detected object matches or does not match all of the configured attributes (workwear,hat,face mask,apron,gloves,shoe covers,boots,seatbelt,safety vest); privacy protection		ributes e	
People Coun	ting	Tripwire people counting and people counting in area, 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; privacy protection		:h/year); ting report e, people	
Heat Map		Yes			
ANPR		ANPR: ANPR, track, priority, snapshot. Vehicle attributes: License plate, vehicle type, vehicle color. Other attributes: Seat belt, smoking, calling. Suppor up to 10,000 blocklist records and 10,000 allowlist records. The camera can recognize plate numbers of vehicles moving at speeds of up to 60km/h		g. 10,000 e plate	

## Wiz Mind | DH-IPC-HDBW7442E1-Z4-X

Notes whice, non-motor whice, near, and human body singshoti, snapshoti, snapshoti, solution, and hard singshoti, whice leady, seathelt, smoking, and subject Motor whicle lattributes: License plate, which type, whice color, whice lattributes: hard on the direction, and hear privacy protectionSmart SearchWork together with Smart NVR to perform refine intelligent search, event extraction and merging to event videosVideo CompressionMotor vehicle attributes: Type, vehicle color, number of people, top type and color, and hat. yrivacy protectionVideo CompressionMork together with Smart NVR to perform refine intelligent search, event extraction and merging to event videosVideo CompressionMotor Stepse Mith Smart NVR top perform refine intelligent search, event extraction and merging to event videosVideo Frame RateMore Stepse Mith Stepse Mith Stepse Mithed Stepse Stepse Mith Stream: 1920 × 10800(1-25/30 (ps) Fird's tream: 1920 × 10800(1-25/30 (ps) <br< th=""><th>Parking Space Management</th><th>Parking Space Management: Manage outdoor and planned parking lots; manage parking spaces in multiple areas; display the total number of parking spaces and parking spaces that are available; trigger alarms based on a predefined number of vehicles.</th></br<>	Parking Space Management	Parking Space Management: Manage outdoor and planned parking lots; manage parking spaces in multiple areas; display the total number of parking spaces and parking spaces that are available; trigger alarms based on a predefined number of vehicles.
Smart Searchintelligent search, event extraction and merging to event videosVideoVideo CompressionH.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)Smart CodecSmart H.265+; Smart H.264Hfuideo Frame RateMain Stream: 2688 × 1520@(1-50/60 fps) but stream: 1920 × 1080@(1-25/30 fps) Fhird stream: 1920 × 1080@(1-25/30 fps) Fhird stream: 1920 × 1080@(1-25/30 fps) Fourth stream: 1920 × 1080@(1-25/30 fps) Fhird stream: 1920 × 1080@(1-25/30 fps) Fourth stream: 1920 × 1080@(1-25/30 fps) 	Video Metadata	detection; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: License plate, vehicle type, vehicle color, vehicle logo, seatbelt, smoking, and calling. Generates flow statistics for people, motor vehicles and non-motor vehicles based on the direction, and exports reports. Non-motor vehicle attributes: Type, vehicle color, number of people, top type and color, and hat. Human body attributes: Top and bottom type and color, bag, hat, gender and umbrella.
NucceVideo CompressionH.265; H.264; H.264B; MJPEG (Only supported by the sub stream)Smart CodecSmart H.265+; Smart H.264+Smart CodecSmart H.265+; Smart H.264+Video Frame RateMain Stream: 1920 × 1080@(1-25/30 fps) Fourth stream: 1920 × 1080@(1-25/30 fps)Stream Capability5 streamsStream Capability5 streamsResolutionCBR/VBRVideo Bit RateH.264: 32 kbps-10240 kbps; H.264: 12 kbps-10240 kbps 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)BLCKesPayNightAuto(CR)/Color/B/WBLCYesWDR140 dBScene Self-adaptation (SSA)Sin NaVitiee BalanceOrf/ON (4 areas, rectangular)Motion DetectionOF/ON (4 areas)Motion DetectionFor Of (4 areas)Image StabilizationYesImage RotationYesSmart IlluminationYesMange RotationYesStart IlluminationYesStart IlluminationYes </td <td>Smart Search</td> <td>intelligent search, event extraction and merging to event</td>	Smart Search	intelligent search, event extraction and merging to event
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Scene Self-adaptation       Yes         White Balance       Auto; natural; street lamp; outdoor; manual; regional custom         Gain Control       Auto         Noise Reduction       3D NR         Motion Detection       OFF/ON (4 areas, rectangular)         Region of Interest (Rol)       Yes (4 areas)         Image Stabilization       Sectorial custom (EIS)         Defog       Yes         Image Rotation       Of '90°/180°/270° (Support 90°/270° with 2688 × 1520) cesolution and lower	HLC	Yes
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Noise Reduction       3D NR         Motion Detection       OFF/ON (4 areas, rectangular)         Region of Interest (Rol)       Yes (4 areas)         Image Stabilization       Electronic Image Stabilization (EIS)         Smart Illumination       Yes         Defog       Yes         Image Rotation       0°/90°/180°/270° (Support 90°/270° with 2688 × 1520)         resolution and lower)       Head Stabilization (EIS)	White Balance	, , , , , ,
Motion Detection       OFF/ON (4 areas, rectangular)         Region of Interest (Rol)       Yes (4 areas)         Image Stabilization       Electronic Image Stabilization (EIS)         Smart Illumination       Yes         Defog       Yes         Image Rotation       0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	Gain Control	Auto
Region of Interest (Rol)     Yes (4 areas)       Image Stabilization     Electronic Image Stabilization (EIS)       Smart Illumination     Yes       Defog     Yes       Image Rotation     0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	Noise Reduction	3D NR
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Smart Illumination     Yes       Defog     Yes       Image Rotation     0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	Region of Interest (RoI)	Yes (4 areas)
Defog     Yes       Image Rotation     0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	Image Stabilization	Electronic Image Stabilization (EIS)
Image Rotation         0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	Smart Illumination	Yes
Image Rotation resolution and lower)	Defog	Yes
Mirror Yes	Image Rotation	
	Mirror	Yes

Privacy Masking	
_	8 areas
Time-Division Exposure	Yes
Audio	
Built-in MIC	Dual MICs
Built-in Speaker	Yes
Audio Compression	G.711a; G.711Mu; PCM; 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; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; parking space management; scene changing; audio detection; defocus detection; external alarm; face detection; face recognition; video metadata; ANPR; people counting in area; stay alarm; people counting; people number error detection; people stay detection; security exception; PPE detection
Network	
Network Port	RJ-45 (10/100/1000 Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2P
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P
User/Host	20 (Total bandwidth: 340 M)
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS
Browser	IE: IE11 and later; Chrome: Chrome 88.0.4324.190 and later; Firefox: Firefox 47.0.2 and later
Management Coftunes	
Management Software	SmartPSS Lite; DSS; DMSS
Management Software	SmartPSS Lite; DSS; DMSS iOS; Android
Mobile Client	iOS; Android Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation
Mobile Client Cyber Security	iOS; Android Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation
Mobile Client Cyber Security Certification	iOS; Android Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Mobile Client Cyber Security Certification Certifications	iOS; Android Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Mobile Client Cyber Security Certification Certifications Port	iOS; Android Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14
Mobile Client Cyber Security Certification Certifications Port RS-485	iOS; Android Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14
Mobile Client Cyber Security Certification Certifications Port RS-485 Audio Input	iOS; Android Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTP5; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 1 (baud rate range:1200 bps–115200 bps) 1 channel (RCA port)
Mobile Client Cyber Security Certification Certifications Port RS-485 Audio Input Audio Output	<ul> <li>iOS; Android</li> <li>Configuration encryption; trusted executior; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification</li> <li>CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 &amp; CAN/CSA C22.2 No. 62368-1-14</li> <li>1 (baud rate range:1200 bps–115200 bps)</li> <li>1 channel (RCA port)</li> <li>1 channel (RCA port)</li> </ul>
Mobile Client Cyber Security Certification Certifications Port RS-485 Audio Input Audio Output Alarm Input	<ul> <li>iOS; Android</li> <li>iOS; Android</li> <li>Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification</li> <li>CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 &amp; CAN/CSA C22.2 No. 62368-1-14</li> <li>1 (baud rate range:1200 bps-115200 bps)</li> <li>1 channel (RCA port)</li> <li>3 channels in: 5mA 3V–5V DC</li> </ul>
Mobile Client Cyber Security Certification Certifications Port RS-485 Audio Input Audio Output Alarm Input Alarm Output	<ul> <li>iOS; Android</li> <li>Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification</li> <li>CE-LVD: EN62368-1</li> <li>CE-LVD: EN62368-1</li> <li>CC- 47 CFR FCC Part 15, Subpart B</li> <li>UL/CUL: UL62368-1 &amp; CAN/CSA C22.2 No. 62368-1-14</li> <li>1 (baud rate range:1200 bps-115200 bps)</li> <li>1 channel (RCA port)</li> <li>1 channels in: 5mA 3V-5V DC</li> <li>2 channels out: 1,000mA 30V DC/500mA 50V AC</li> </ul>

## Wiz Mind | DH-IPC-HDBW7442E1-Z4-X

Power Consumption	Basic: 6.6 W (12 VDC); 9.3 W (24 VAC); 9.8 W (PoE) Max. (ICR switch + IR intensity): 18.7 W (12 VDC); 24.8 W (24 VAC); 25.2 W (PoE) Heating: 3 W (12 VDC); 4.6 W (24 VAC); 5.47 W (PoE)
Environment	
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Storage Humidity	10–95%
Protection	IP67; IK10; Anti-Corrosion Protection (optional)
Structure	
Casing Material	Metal + plastic
Product Dimensions	118.0 mm × Φ159.0 mm (4.65" × Φ6.26")
Net Weight	1.16 kg (2.56 lb)
Gross Weight	1.36 kg (3.00 lb)

### **Ordering Information**

Туре	Model	Description
4MP Camera	DH-IPC-HDBW7442E1-Z4-X	4MP IR Dome WizMind Network Camera
	IPC-HDBW7442E1-Z4-X	4MP IR Dome WizMind Network Camera
	PFB211W	Wall Mount Bracket
	PFA156	Pole Mount Bracket
	PFA101	Mount Adapter
	PFB300C	Ceiling Mount Bracket
Accessories (Optional)	PFB5201C	In-ceiling Mount Bracket
	PFA138	Junction Box
	PFM320D	12 VDC 2 A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card

#### Accessories

#### Optional:





PFB211W Wall Mount Bracket

PFA156 Pole Mount Bracket



Mount Adapter



PFB5201C

In-ceiling Mount Bracket



PFA138 Junction Box

PFM320D

12 VDC 2A Power

PFB300C

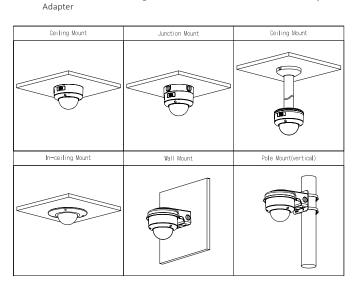
Ceiling Mount Bracket



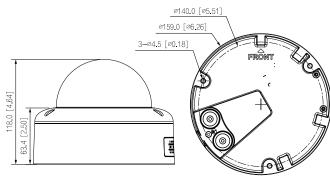


PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card



### Dimensions (mm[inch])



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