



## DH-IPC-HDBW7442H-Z4FR

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, 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 advanced deep learning algorithm, Dahua WizMind 7 Series network camera supports various intelligent functions and satisfies the requirements in different scenes. The camera can accurately recognize person, vehicle, and non-motor vehicle, face, ANPR, and liveness. This series camera has ultra starlight night version effect, and works with ultra-low stream. It supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

#### **Functions**

#### **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 reports to meet your requirements.

#### 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.

#### Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

- $\cdot$  4MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- · Max outputs 4MP (2688 × 1520) @50 fps/60 fps
- · H.264&H.265 coding, high compression ration · Wide dynamic, day/night, 3D NR, AWB, HLC, BLC
- · ROI, SVC, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · With deep learning algorithm, it supports people counting, face recogni tion, perimeter protection etc
- · Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 256 G SD card
- · 24V AC/12V DC/PoE power supply
- · Five streams for three-channel HD video
- · IP67, IK10 protection grade
- · Anti-corrosion coating(optional)
- · 12V DC power output, max. current 165mA, easy for installation











#### 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.

#### **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.

#### **Face Recognition**

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

#### **Cyber Security**

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

#### **Privacy Protection**

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



### Wiz Mind | DH-IPC-HDBW7442H-Z4FR

Technical	Specification						
Technical Specification						Support tripwire number counting, people counting in area, and displaying and outputting yearly/monthly/	
Camera		1/1.8" 4Megapixel progressive CMOS				People Counting	daily reports. Support queue management, and displaying and outputting monthly/daily reports.
	Image Sensor			SSIVE CIVIOS			Support 4 tripwire rules configuration, people counting in 4 areas, and 4 queue management
Max. Resolution		2688 (H) × 1520 (V)					functions
ROM		16 GB 2 GB				Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes
Scanning Syste	em	Progressive					extraction.
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				Intelligent Coarch	Work together with Smart NVR to perform refine
Min. Illumination		0.001 Lux@F1.6 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)				Intelligent Search  Video	intelligent search, event extraction and merging to event videos.
S/N Ratio		> 56 dB				Video	H.265, H.264, H.264H, H.264B, MJPEG(only supported
Illumination D	istance	80 m (262.5 ft)				Video Compression	by sub stream)
Illuminator On	/Off Control	Auto				Smart Codec	Smart H.265+/ Smart H.264+
	Illuminator On/Off Control						Main Stream: 2688 × 1520 (1–50/60 fps)
Illuminator Number Pan/Tilt/Rotation Range		3 (IR LED) Pan: 0°-355° Tilt: 0°-80° Rotation: 0°-355°				Video Frame Rate	Sub stream: 704 × 576 (1–25fps);704 × 480 (1–30fps) Third stream: 1920 × 1080 (1–25/30 fps) Fourth stream: 1920 × 1080 (1–25/30 fps) Fifth stream: 704 × 576 (1–25fps);704 × 480 (1–30fps)
Lens	Lens					Stream Capability	5 streams
Lens Type		Motorized vari-focal				Resolution	4M (2688 × 1520), 3M (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)
Mount Type Focal Length		Module interface 8 mm–32 mm					
Max. Aperture		F1.6(Constant)				Bit Rate Control	CBR/VBR
Field of View		Horizontal: 40° (W)–15° (T) Vertical: 23° (W)–9° (T)				Video Bit Rate	H.264: 32 Kbps–10240 Kbps H.265: 12 Kbps–10240 Kbps
Optical Zoom		Diagonal: 46° (W)–18° (T)				Day/Night	Auto (ICR)/Color/B/W
Iris Type		4 times  Auto;Precise iris control				BLC	Yes
Close Focus Distance		W: 2.5 m (W: 8.20 ft)				HLC	Yes
close rocus bi	Lens	T: 6 m (T: 19 Detect	.68 ft) Observe	Recognize	Identify	WDR	140 dB
0001		151 m	60.7 m	30.3 m	15.1 m	Scene Self-adaptation (SSA)	Yes
DORI Distance	W	(495.4 ft) 400 m	(199.1 ft) 160 m	(99.4 ft) 80 m	(49.5 ft) 40 m	White Balance	Auto/natural/street lamp/outdoor/manual/regional
	T	(1312.3 ft)	(524.9 ft)	(262.5 ft)	(131.2 ft)	willte Balance	custom
Smart ever	nt					Gain Control	Auto/Manual
IVS		Abandoned object, moving object				Noise Reduction	3D NR
Professional, intelligent				Motion Detection	OFF/ON (4 areas, rectangular)		
IVS (Perimeter Protection)  Face Recognition		Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.  Face recognition, track, priority, snapshot, face enhancement, face exposure Face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, sadness, disgust, fear, surprise, calm, happiness and confusion), mask, beard Face matting setting: face, single inch photo				Region of Interest(RoI)	Yes (4 areas)
						Electronic Image Stabilization(EIS)	Yes
						Smart Illumination	Yes
						Defog	Yes
						Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution or below)
		Face angle fi	lter	riority snapsho	ot, recognition	Mirror	Yes
		Priority time Managemen	setting It of 5 group fa	ce libraries		Privacy Masking	4 areas
		Single person register and person register in batch Face recognition and similarity setting Max supports face contrast in face library with				Audio	
		200,000 faces				Audio Compression	G.711a; G.711Mu; G726; G.723
		Support Duration Optimal, Non-living Filtering					



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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; scene changing; audio detection; defocus detection; external alarm; Face Recognition; people counting in area; stay alarm; people counting; people counting exception detection; safety exception, Queue Management				
Network					
Network	RJ-45 (10/100/1000 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; trusted execution; trusted upgrade				
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; SAMBA; PPPoE; 802.1x; SNMP; Bonjour				
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP				
User/Host	20(Total bandwidth: 80M)				
Storage	FTP; Micro SD card (256 G); NAS; SFTP				
Browser	IE: IE9 and later Chrome: Chrome 42 and later Firefox: Firefox 48.0.2 and later				
Management Software	Smart PSS; DSS; DMSS				
Mobile Phone	IOS, Android				
Certification					
Certifications	CE-LVD: EN62368-1,EN60950-22 (optional) 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,UL 50E NEMA Type 4X (optional)				
Port					
RS-485	1 (baud rate range: 1200 bps–115200 bps)				
Audio Input Audio Output	Audio Interface: 1/1 channel In/Out				
Alarm Input Alarm Output	3 channel In: 5mA 5V DC 2 channel Out: 1000mA 30V DC/500mA 50V AC				
Power					
Power Supply	12V DC/24V AC/PoE+ (802.3at); ePoE				
Power Consumption	Basic power consumption: 5.4W (12V DC); 5W(24V AC); 4.9W (PoE) Max. power consumption (Max. stream + intelligent function + IR LED + focus): 16.7W (12V DC);15.7W(24V AC); 15.6W (PoE) Heat power consumption: 3.3W (12V DC);5.5W(24V AC); 5.5W (PoE)				
Environment					
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/Less than 95% RH				
Storage conditions	-40°C to +60°C (-40°F to +140°F)				

# Structure Casing Metal + Plastic

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Dimensions	129.1 mm × Φ157.9 mm (5.08" × Φ6.22") (L × W × H)
Net Weight	1500 g(3.31 lb)
Gross Weight	1600 g (3.53 lb)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC- HDBW7442HP- Z4FR	4MP IR Dome WizMind Network Camera,PAL				
4MP Camera	DH-IPC- HDBW7442HN- Z4FR	4MP IR Dome WizMind Network Camera,NTSC				
	IPC-HDBW7442HP- Z4FR	4MP IR Dome WizMind Network Camera,PAL				
	IPC-HDBW7442HN- Z4FR	4MP IR Dome WizMind Network Camera, NTSC				
	PFA773	Sun Shade				
	PFB211W	Wall Mount				
Accessories (Optional)	PFA152-E	Pole Mount				
	PFA101	Mount Adapter				
	PFB300C	Ceiling Mount				



Protection Grade

IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)

#### Accessories

#### Optional:





PFA773



PFB211W



PFA152-E



PFA101



#### Dimensions (mm[inch])







