

DH-IPC-HDBW7442H-Z

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

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.

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. The camera can count targets by directions (A>B, B>A, or A<>B), and export the report.

- \cdot 4MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- \cdot Max outputs 4MP (2688 \times 1520) @50 fps/60 fps
- \cdot H.264&H.265 coding, high compression ration
- \cdot 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 detec 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/PoE/12V DC power support
- · Five streams for three-channel HD video
- · IP67, IK10 protection grade
- · Anti-corrosion coating(optional)
- \cdot 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.

Privacy Protection

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

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.

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.



Face and Human Body Association

With deep learning algorithm, Dahua Face and Human Body Association technology detects face and human body of one person, captures them separatedly, selects the best image, and then associates them.

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.

Advanced Customer Counter

With Advanced Customer Counter, the camera can remove staff and returning customers from your store traffic count. It enables managers to build a full picture of the number and groups of customers.

PPE Detection

With the PPE Detection function, the camera can detect attributes including face masks, helmets, glasses, safety vests, and the color of tops and bottoms, and determine whether PPE requirements are met. Match attributes alarm or mismatch attributes alarm can be triggered according to the alarm settings.

Technical Specification	
Camera	
Image Sensor	1/1.8" 4Megapixel progressive CMOS
Max. Resolution	2688 (H) × 1520 (V)
ROM	4 GB
RAM	2 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100000 s
Min. Illumination	0.001 Lux@F1.2 (Color, 30IRE) 0.0002 Lux@F1.2 (B/W, 30IRE) 0 Lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	40 m (131.23 ft)
Illuminator On/Off Control	Auto
Illuminator Number	3 (IR LED)

Pan: 0°–355° Tilt: 0°–80°

Rotation: 0°-355°

Motorized vari-focal

Horizontal: 114°(W)-47°(T)

Vertical: 59°(W)–27°(T) Diagonal: 141° (W–55°(T) Auto;Precise iris control

w: 1 m (W: 3.28 ft)

T: 2.5 m (T: 8.20ft)

Module interface

2.7mm-12mm

F1.2

		Lens	Detect	Observe	Recognize	Identify
	DORI Distance	W	60.1 m (197.18 ft)	24 m (78.74 ft)	12 m (39.37 ft)	6 m (19.69 ft)
		т	128.6 m (421.92 ft)	51.4 m (168.64 ft)	25.7 m (84.31 ft)	12.8 m (41.99 ft)
es	Smart even	t				
	IVS		Abandoned object, moving object			
	Professional, intelligent					
	IVS (Perimeter	Protection)	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 Detection Face Recognition Face and Body Detection Face and Body Detection ANPR Video Metadata Video Metadata Intelligent Search		Face detection, track, priority, snapshot,Upload Optimized snapshot picture; 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), Mouth mask, beard; Face matting setting: face, single inch photo Three snapshot; methods: real-time snapshot, priority snapshot, quality priority; Face angle filter Priority time setting; Support Duration Optimal,Non-living Filtering;			
			There are two models: General mode and counting mode. General mode: Face detection; track; snapshot; snapshot optimization; face enhancement; face exposure; face attribute extraction including 6 attributes (gender, age, glasses, expressions, mask and beard) and 8 expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear); supports up to 5 face databases with 50,000 face pictures in total; supports non-living filtering Counting mode: Offers advanced customer counter, filtering of specified face database, and exporting of reports before and after removing duplicate faces.			
			There are two modes: General mode and PPE Detection. General mode: Supports enabling face detection and human detection at the same time, and alarms can be triggered. PPE Detection: Supports PPE detection, can detect attributes including face mask, safety helmet, glasses, and safety vest, top color and bottom color, and determine whether PPE requirements are met. Alarm can be triggered according to the alarm settings.			etection and larms can be an detect met, glasses, or, and e met. Alarms
			Vehicle attrik color		shot plate, vehicle t smoking, pho	
			and non-mot extraction, c	tor vehicle ima	nan face, moto ge capture, at s by directions e report.	tributes
			area, and dis daily reports displaying an Support 4 tri	playing and ou .Support queu Id outputting r pwire rules co	ounting, peopl itputting yearl ie managemen nonthly/daily r nfiguration, pe queue manage	y/monthly/ it, and eports. eople
			Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.			
	Video					
	Video Compression		H.265, H.264 by sub strear		64B, MJPEG (or	nly supported



Pan/Tilt/Rotation Range

Lens

Lens Type

Mount Type Focal Length

Max. Aperture

Field of View

Close Focus Distance

Iris Type

Wiz Mind | DH-IPC-HDBW7442H-Z

Nain Stram: 268 × 1520 (1-55/p):704 × 800 (1-307ps) pirid stram: 1202 × 1080 (1-25/30 fps) pirid strand stra	Smart Codec	Smart H.265+/ Smart H.264+
Resolution M (2688 × 1520), 3.M (2204 × 129), 1030p (1920 × 220), 2120, 220) × 220) Bit Rate Control CBR/VBR Video Bit Rate H.264: 32 Kbps-10240 Kbps Day/Night Auto (ICR)/Color/B/W BLC Yes MURD 140 dB Video Bit Rate H.264: 32 Kbps-10240 Kbps BLC Yes BLC Yes WDR Auto (ICR)/Color/B/W Bltc Yes WDR Auto/natural/street lamp/outdoor/manual/regional Gain Control Auto/natural/street lamp/outdoor/manual/regional Noise Reduction OF/FON (4 areas, rectangular) Region of Interest(Rol) Yes Stabilization(EIS) Yes Stabilization(EIS) Yes Image Rotation Yes Infor Yes Auto/a Start Illumination Yes Autor Yes Autor Yes Infor Yes Privacy Masking Solorari SD cartify Digrafor Soly 270* with 2688 × 1520 Autor Solorari SD cartify Digrafor Soly 270* With 2688 × 1520 Burdor Yes	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)
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Network RJ-45 (10/100/1000 Base-T)	Network	
	Network	RJ-45 (10/100/1000 Base-T)

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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 Interface: 1/1 channel In/Out
Audio Output	
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)
Protection Grade	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)
Structure	
Casing	Metal+Plastic
Dimensions	129.1 mm × Φ157.9 mm (5.08" × Φ6.22") (L × W × H)
Net Weight	1500 g (3.31lb)
Gross Weight	1600 g (3.53 lb)

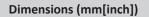
SDK and API

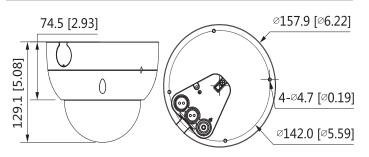
Yes

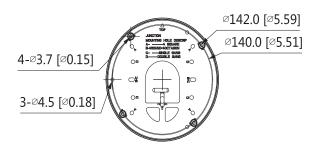
Wiz Mind | DH-IPC-HDBW7442H-Z

Ordering Information

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







Accessories

Optional:







PFA773

PFB211W

PFA152-E





PFB300C

Junction Mount	Wa ll Mount	Wall Mount
Pole Mount(Vertical)	Ceiling Mount	

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