

DH-IPC-HDBW7442H-ZFR

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.

- ·4MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- · Max outputs 4MP (2688×1520) @50 fps/60 fps
- \cdot H.264&H.265 coding, high compression ration \cdot Wide dynamic, day/night, 3D NR, AWB, HLC, BLC
- \cdot 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
- \cdot Five streams for three-channel HD video
- · IP67, IK10 protection grade
- \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.

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.

Privacy Protection

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



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Technical Specification

Camera					
Image Sensor		1/1.8" 4Megapixel progressive CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		16 GB			
RAM		2 GB			
Scanning Syste	em	Progressive			
Electronic Shu	tter Speed	Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.001 Lux@F1.2			
S/N Ratio		> 56 dB			
Illumination Distance		40 m (131.23 ft)			
Illuminator On/Off Control		Auto			
Illuminator Number		3 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		Module interface			
Focal Length		2.7mm-12mm			
Max. Aperture		F1.2			
Field of View		Horizontal: 114°(W)–47°(T) Vertical: 59°(W)–27°(T) Diagonal: 141° (W–55°(T)			
Iris Type		Auto;Precise iris control			
Close Focus Distance		W: 1 m (3.28ft) T: 2.5 m (8.20ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	60.1 m (187.19 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 (84.32 ft)	12.8 m (41.99 ft)

Smart event

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 Recognition	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 Two snapshot strategies: priority snapshot, recognition Face angle filter Priority time setting Management of 5 group face libraries Single person register and person register in batch Face recognition and similarity setting Max supports face contrast in face library with 200,000 faces Support Duration Optimal,Non-living Filtering	

People Counting	Support tripwire number counting, people counting in area, and displaying and outputting yearly/monthly/ daily reports.Support queue management, and displaying and outputting monthly/daily reports. Support 4 tripwire rules configuration, people counting in 4 areas, and 4 queue management functions
Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction.
Intelligent 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 sub stream)
Smart Codec	Smart H.265+/ Smart H.264+
Video Frame Rate	Main Stream: 2688 × 1520 (1–50/60 fps) 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)
Stream Capability	5 streams
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)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 Kbps–10240 Kbps H.265: 12 Kbps–10240 Kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	140 dB
Scene Self-adaptation	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(Rol)	Yes (4 areas)
Electronic Image Stabilization(EIS)	Yes
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution or below.)
Mirror	Yes
Privacy Masking	4 areas
Audio	
Audio Compression	G.711a; G.711Mu; G726; AAC; G.723

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No SD card; SD	Alarm	
Network RJ-45 (10/100/1000 Base-T) SDK and API Yes Protocol SMTP; Https: B020; bits; DDNS; PRDP; DDP; RTCP; DDP; RTCP; DDP; STCP; RTMP; Genetec; Donjour; SMMP; SDDS; SPMSD; DDNS; SPMSD;	Alarm Event	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
SDK and API Yes Protocol MTTP; Https; 802; 1x; TCP; ARP; RTSP; RTP; UPAV 66; SNDS; PFOPS; DVAV 66; SNDS; SPEDS; DPAV 66; SNDS; SPEDAV 66; SNDS; SNDS	Network	
Protocol HTTP; Https: 802.1x: TCP: ARP; RTSP: RTP; UDP; RTOP; Mutricast Protocol SMTP; FTP: DUCP; DMCP; DMS; DDMS; PPPAGE: IPv3/V6; SMMP; Mutricast Interoperability ONVEF (Profile S/Profile G/Profile T): CGI; Milestone; Genetec; P2P;RTMP User/Host 20 (Total bandwidth: 80 M.) Storage FTP; Micro SD card (256 G); NAS; SFTP;Dahua Cloud Browser E: E9 and later Chrome: Chrome 42 and later Firefox: Firefox 48.0.2 and later Management Software Smart PSS; DSS; DMSS Mobile Phone IoS, Android Certifications CE-LVD: EN62368-1 C: E-MC: Electromagnetic Compatibility Directive 2014/30/EU FC: 47 CFR FCC Part 15, Subpart B UU: UL UG0950-1 CAN/CSA C22.2 No.60950-1-07 Port E-MC: Electromagnetic Compatibility Directive 2014/30/EU FC: 47 CFR FCC Part 15, Subpart B UU: UL UC0950-1 CAN/CSA C22.2 No.60950-1-07 Adio Input Audio Interface: 1/1 channel In/Out Adarm Input 3 channel In: SmA SV DC 2 channel Out: 1000mA 30V DC/S00mA 50V AC Alarm Output 3 channel In: SmA SV DC 2 channel Out: 1000mA 30V DC/S00mA 50V AC Power Supply 12V DC/24V AC/PoE+ (802.3a1) Power Supply 12V DC/24V AC/PoE+ (802.3a1) Power Supply -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)/Less than 95% R	Network	RJ-45 (10/100/1000 Base-T)
Protocol SMTP; FTP; DHCP; DNS; DNS; PPPoE; IPAd/v6; SMMP; Genetec; P2P; RTMP; Genetec; Bonjour; Multicast Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P; RTMP User/Host 20 (Total bandwidth: 80 M.) Storage FTP; Micro SD card (256 G); NAS; SFTP; Dahua Cloud 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 CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU 2014/30/EU 2014/30/EU Fort Storage Rs-485 1 (baud rate range: 1200 bps-115200 bps) Audio Input Audio Output 3 channel In: SmA SV DC 2 channel Out: 1000mA 30V DC/S00mA 50V AC Alarm Input Alarm Output 16:7W Power Supply 12V DC/24V AC/POE+ (802.3at) Power Consumption 16:7W Environment -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, IKI0	SDK and API	Yes
InteroperabilityGenetec; P2P;RTMPUser/Host20 (Total bandwidth: 80 M.)StorageFTP; Micro SD card (256 G); NAS; SFTP;Dahua CloudBrowserIE: IE9 and later Chrome: Chrome 2 and later Firefox: Firefox 48.0.2 and laterManagement SoftwareSmart PSS; DSS; DMSSMobile PhoneIOS, AndroidCertificationCE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC 47 CFR FCC Part 15, Subpart B 2014/30/EU FCC 47 CFR FCC Part 15, Subpart B 2014/30/EUPortI(baud rate range: 1200 bps-115200 bps)Audio Input Audio Input Audio Interface: 1/1 channel In/Out 2 channel In: SmA SV DC 2 channel Out: 1000mA 30V DC/500mA 50V ACPowerI2V DC/24V AC/PoE+ (802.3at)Power Supply16.7WPower Consumption-16.7WStorage conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C t	Protocol	SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP; SFTP; RTMP; Genetec;Bonjour ;
StorageFTP; Micro SD card (256 G); NAS; SFTP; Dahua CloudBrowserE: E9 and later Chrome: Chrome 42 and later Firefox: Firefox 48.0.2 and laterManagement SoftwareSmart PSS; DSS; DMSSMobile PhoneIOS, AndroidCertificationCertificationsCE-LVD: EN62368-1 CE-ENC: Electromagnetic Compatibility Directive 2014/30/EUFortCertificationsPortStanagement SoftwareAudio Input Audio Input Audio Input Alarm Input Alarm OutputAudio Interface: 1/1 channel In/Out 2 channel Out: 1000mA 30V DC/S00mA 50V ACPowerI2V DC/24V AC/POE+ (802.3at)Power Supply12V DC/24V AC/POE+ (802.3at)Power Consumption-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to +60°C (-40°F to +140°F)Storage conditionsIF67, KLIOStructureInfo	Interoperability	
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BrowserChrome: Chrome 42 and later Firefox: Firefox 48.0.2 and laterManagement SoftwareSmart PSS; DSS; DMSSMobile PhoneIOS, AndroidCertificationE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CU: UL60950-1 CAN/CSA C22.2 No.60950-1-07FortFC-485Audio Input Audio Input Audio Interface: 1/1 channel In/OutAlarm Input Alarm OutputB Channel In: SmA SV DC 2 channel Out: 1000mA 30V DC/500mA 50V ACPower12V DC/24V AC/PoE+ (802.3at)Power Supply12V DC/24V AC/PoE+ (802.3at)Power Consumption-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHFortection GradeIP67, IK10	Storage	FTP; Micro SD card (256 G); NAS; SFTP;Dahua Cloud
Nobile PhoneIOS, AndroidCertificationCE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B 	Browser	Chrome: Chrome 42 and later
Certification CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU EC: 47 CFR FCC Part 15, Subpart B U/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07 Fort RS-485 1 (baud rate range: 1200 bps-115200 bps) Audio Input Addio Interface: 1/1 channel In/Out Audio Output Addio Interface: 1/1 channel In/Out Alarm Input Achannel In: SmA SV DC 2 channel Out: 1000mA 30V DC/500mA 50V AC Power 3channel In: SmA SV DC 2 channel Out: 1000mA 30V DC/500mA 50V AC Power 12V DC/24V AC/PoE+ (802.3at) Power Supply 16.7W Power Consumption 4.04°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)/Less than 95% RH Storage conditions IP67, K10 Structure IP67, K10	Management Software	Smart PSS; DSS; DMSS
Certifications CE-LVD: EN62368-1 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 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 2 channel Out: 1000mA 30V DC/500mA 50V AC Power 12V DC/24V AC/PoE+ (802.3at) Power Consumption <16.7W	Mobile Phone	IOS, Android
CertificationsCE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FC: 47 CFR FCC Part 15, Subpart B UL/CUI: UL60950-1 CAN/CSA C22.2 No.60950-1-07PortRS-4851 (baud rate range: 1200 bps-115200 bps)Audio Input Audio OutputAudio Interface: 1/1 channel In/OutAudio OutputAudio Interface: 1/1 channel In/OutAlarm Input Alarm Output3 channel In: SmA SV DC 2 channel Out: 1000mA 30V DC/500mA 50V ACPower12V DC/24V AC/PoE+ (802.3at)Power Supply12V DC/24V AC/PoE+ (802.3at)Power Consumption-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to 50°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to 50°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to 50°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to 50°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to 50°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to 50°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to 50°C (-40°F to +140°F)/Less than 95% RHCerton GradeIP67, IK10Certon Grade-40°C to 50°C (-40°F to +140°F)Certon Grade	Certification	
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Audio OutputAudio OutputAlarm Input3 channel In: 5mA 5V DC 2 channel Out: 1000mA 30V DC/500mA 50V ACAlarm Output2 channel Out: 1000mA 30V DC/500mA 50V ACPower12V DC/24V AC/PoE+ (802.3at)Power Consumption<16.7W	Audio Input	Audio Interface: 1/1 channel In/Out
Alarm Output2 channel Out: 1000mA 30V DC/500mA 50V ACPower2 channel Out: 1000mA 30V DC/500mA 50V ACPower Supply12V DC/24V AC/PoE+ (802.3at)Power Consumption<16.7WEnvironmentOperating Conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to +60°C (-40°F to +140°F)Protection GradeIP67, IK10Structure		
Power Power Supply 12V DC/24V AC/PoE+ (802.3at) Power Consumption <16.7W		
Power Consumption <16.7W		
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 Structure -40°C to +60°C (-40°F to +140°F)	Power Supply	12V DC/24V AC/PoE+ (802.3at)
Operating Conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage conditions-40°C to +60°C (-40°F to +140°F)Protection GradeIP67, IK10Structure	Power Consumption	<16.7W
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Protection Grade IP67, IK10 Structure	Operating Conditions	-40°C to +60°C (-40°F to +140°F)/Less than 95% RH
Structure	Storage conditions	-40°C to +60°C (-40°F to +140°F)
	Protection Grade	IP67, IK10
	Structure	
Casing Metal + Plastic	Casing	Metal + Plastic
Dimensions 129.1 mm × Φ157.9 mm (5.08" × Φ6.22") (L × W × H)	Dimensions	129.1 mm × Φ157.9 mm (5.08" × Φ6.22") (L × W × H)
Net Weight 1500g(3.31lb)	Net Weight	1500g(3.31lb)
Gross Weight 1600 g (3.53 lb)	Gross Weight	1600 g (3.53 lb)

Ordering Information		
Туре	Part Number	Description
4MP Camera	DH-IPC- HDBW7442HP-ZFR	4MP IR Dome WizMind Network Camera, PAL
	DH-IPC- HDBW7442HN-ZFR	4MP IR Dome WizMind Network Camera,NTSC
	IPC- HDBW7442HP-ZFR	4MP IR Dome WizMind Network Camera,PAL
	IPC- HDBW7442HN-ZFR	4MP IR Dome WizMind Network Camera,NTSC
	PFA773	Wall Mount
Accessories (Optional)	PFB210W	Wall Mount
	PFA152-E	Pole Mount
	PFA101	Wall Mount
	PFB300C	Ceiling Mount

Accessories









PFB210W

PFA152-E







Ceiling Mount	Wall Mount	Wall Mount	
	PFA773	PFB210W	
Wall Mount	Pole Mount	Hang Mount	
PFB210W	PFB210W+PFA152-E	PFB300C+PFA101	

Wiz Mind | DH-IPC-HDBW7442H-ZFR

Dimensions (mm[inch])



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