



DH-IPC-HDBW7842H-Z4

8MP 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.

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

- 8MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP(3840 × 2160) @25/30 fps
- · H.264&H.265 coding, high compression ration
- · WDR, 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 detection, 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
- 12V DC power output, max. current 165mA, easy for installation













and H.264, provides high-quality video, and reduces the cost of storage and transmission

ePoF

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.

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.

Queue Management

With advanced image processing technology and deep leaning algorithm, Dahua Queue Management technology counts people quantity in selected area in real time to realize queue management. It supports multiple polygon areas. When No. in area/strand time is not smaller or not larger than the threshold, it triggers alarm.



Technical	Specification	on						Support tripwire number counting; people counting in
Camera							Decade Counting	area, and displaying and outputting yearly/monthly/daily reports.
Image Sensor		1/1.8"8Megapixel progressive CMOS					People Counting	Support queue management, and displaying and outputting yearly/monthly/daily reports. Support 4 tripwire rule configuration, people counting in
Max. Resolution		3840 (H) × 2160 (V)						4 areas, and 4 queue managements.
ROM		4 G					ANPR	ANPR, track, priority, snapshot Vehicle attributes: license plate, vehicle type, vehicle color, vehicle brand
RAM		2 G						Other attributes: sun visor, seat belt, smoking, phoning, in-car accessories, annual vehicle inspection mark
Scanning System		Progressive					Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle detection detection; track, priority, snapshot, Upload Optimized snapshot picture; Motor vehicle attributes: Plate Namember, Vehicle type,Vehicle color, Car Logo,Sunsheild,Seatbelt, Smoke, Ornament,Inspection Sticker;Calling; Non-motor vehicle
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.005 @F1.6						
S/N Ratio		>56 dB					Video Metadata	attributes:(Vehicle Type,Vehicle Color,Occupancy,Top,Top Color,Hat) Human body attributes:(Top,Bottom,Top Color,Bottom Co lor,Bag,Hat,Umbrella,Gender)
Illumination Distance		80 m (262.5 ft)						
Illuminator C	On/Off Control	Auto/Manual						Human face attributes:(Gender, age, glasses, expressions, Mouth mask, beard)
Illuminator Number		3 (IR LED)					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80°					Video	
Long		Rotation: 0°–355°					Video Compression	H.265; H.264; H.264H; H.264B;MJPEG (only supported by the sub stream)
Lens Type		Motorized vari-focal					Smart Codec	Smart H.265+/H.264+
Lens Type Mount Type		Module					Video Frame Rate	Main Stream: 3840 × 2160 (1-25/30 fps) Sub stream: 704 × 576 (1-25 fps)/704 × 480 (1–30 fps) Third stream: 1920 × 1080 (1-25/30 fps) Fourth stream: 1920 × 1080 (1-25/30 fps) Fifth stream: 704 × 576 (1-25)/704 × 480 (1–30 fps)
Focal Length		8 mm-32 mm						
Max. Aperture		F1.6(Constant F1.6 throughout the zoom range)					Stream Capability	5 streams
Field of View		Horizontal: 40° (W)–15° (T) Vertical: 23° (W)–9° (T) Diagonal: 45° (W)–17° (T)					Resolution	8M (3840 × 2160); 6M (3072 × 2048/3072 × 1728); 5M (2592 × 1944); 4M (2688 × 1520); CIF (352 × 288/352 × 240); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480)
Iris Type		Auto; Precise iris control						
Close Focus Distance		W: 2.5 m (8.20 ft) T: 6 m (19.68 ft)					Bit Rate Control	CBR/VBR
	Lens	Detect	Observe	Recognize	Identify		Video Bit Rate	H.264: 32 kbps-16384 kbps H.265: 12 kbps-16384 kbps
DORI	W	218.0 m (715.2 ft)	87.0 m (285.4 ft)	43.0 m (141.1 ft)	21.0 m (68.9 ft)		Day/Night	Auto (ICR)/Color/B/W
Distance	Т	580.0 m	232.0 m	116.0 m	58.0 m		BLC	Yes
Constant Free		(1902.9 ft)	(761.2 ft)	(380.6 ft)	(190.3 ft)		HLC	Yes
Smart Eve	ent						WDR	120dB
IVS :	1	Abandoned object; moving object					Scene Self-adaptation	Yes
Profession	nal, intellige						White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
IVS (Perimete	er Protection)	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection leitering					Gain Control	Auto/Manual
		of vehicle and human); parking detection, loitering detection, and people gathering.					Noise Reduction	3D NR
Face Detection		Face detection, track, priority, snapshot; Upload Optimized snapshot picture;					Motion Detection	OFF/ON (4 areas, rectangular)
		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,					Region of Interest (RoI)	Yes (4 areas)
							Electronic Image Stabilization (EIS)	Yes
		beard; Face matting setting: face, single inch photo;					Smart Illumination	Yes
		Three snapshot methods: real-time snapshot, priority snapshot, quality priority; Face angle filter Priority time setting; Support Duration Optimal, Non-living Filtering					Defog	Yes
							Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)

Mirror	Yes
Privacy Masking	4 areas
Audio	
Audio Compression	G.711a; G.711Mu; G726; AAC; 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; scene changing; audio detection; defocus detection; external alarm; face detection; people counting in area; stay alarm; people counting; people No. exception detectiong exception detection; safety exception, queue management
Network	
Network	RJ-45 (10/100/1000 Base-T)
SDK and API	Yes
Protocol	HTTP; HTTPS; 802.1x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP; SFTP; RTMP; Genetec; Bonjour; Multicast
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P; RTMP
User/Host	20 (Total bandwidth: 160M)
Storage	FTP; SFTP; Micro SD card (support max. 256 G); Dahua Cloud; NAS
Browser	IE: IE9 and earlier Chrome: Chrome 42 and earlier Firefox: Firefox 48.0.2 and earlier
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android
Certification	
Certification	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	1 channel (3-pin terminal with 2.54mm clearance; with audio cable)
Audio Output	$1\ \mbox{channel}$ (3-pin terminal with 2.54mm clearance; with audio cable)
Alarm Input	3 channels in: 5mA 3V–5V DC
Alarm Output	2 channels out: 1,000mA 30V DC/500mA 50V DC
Power	
Power Supply	12V DC/24V AC/PoE+ (802.3at)
Power Consumption	<16.7W
Environment	
Operating Conditions	-40°C to +60°C (-40°F to 140°F)/Less than 95% RH
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67; IK10

Structure

Casing	Metal + plastic
Dimensions	129.1 mm × Φ157.9 mm (5.08" × Φ6.22")
Net Weight	1500 g (3.31 lb)
Gross Weight	1600 g (3.53 lb)

Ordering Information						
Туре	Model	Description				
	DH-IPC-HDBW7842HP-Z4	8MP IR Dome WizMind Network Camera, PAL				
8M	DH-IPC-HDBW7842HN-Z4	8MP IR Dome WizMind Network Camera, NTSC				
Camera	IPC-HDBW7842HP-Z4	8MP IR Dome WizMind Network Camera, PAL				
	IPC-HDBW7842HN-Z4	8MP IR Dome WizMind Network Camera, NTSC				
	PFA773	Wall Mount				
	PFB210W	Wall Mount				
Accessories (Optional)	PFA152-E	Pole Mount				
	PFA101	Wall Mount				
	PFB300C	Ceiling Mount				

Accessories

Optional







PFB210W Wall Mount



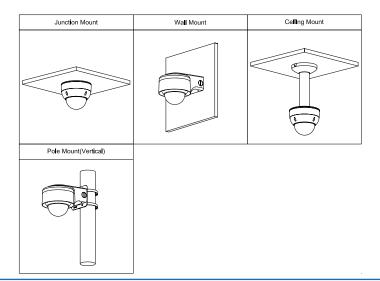
PFA152-E Pole Mount



PFA101 Wall Mount



PFB300C Ceiling Mount



Dimensions (mm[inch])

