



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.

- \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 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
- · 12V DC power output, max. current 165mA, easy for installation













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.

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.

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.



Technical Specification							ANPR	ANPR, track, priority, snapshot Vehicle attributes: license plate, vehicle type, vehicle color,vehicle brand
Camera								
Image Sensor		1/1.8" 4Megapixel progressive CMOS						Other attributes: sun visor, seat belt, smoking, phoning, in-car accessories, annual vehicle inspection
Max. Resolution		2688 (H) × 1520 (V)						mark
ROM		4 GB					Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes
RAM		2 GB						extraction.
Scanning Syste	em	Progressive					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
Electronic Shu	tter Speed	Auto/Manual 1/3 s–1/100000 s						
Min. Illumination		0.001 Lux@F1.2						counting in 4 areas, and 4 queue management functions
S/N Ratio		> 56 dB						Work together with Smart NVR to perform refine
Illumination Distance		40 m (131.23 ft)					Intelligent Search	intelligent search, event extraction and merging to event videos.
Illuminator On	/Off Control	Auto					Video	
Illuminator Number		3 (IR LED)					Video Compression	H.265, H.264, H.264H, H.264B, MJPEG(only supported by sub stream)
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°					Smart Codec	Smart H.265+/ Smart H.264+
Lens								Main Stream: 2688 × 1520 (1–50/60 fps)
Lens Type		Motorized vari-focal					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)
Mount Type		Module interface						Fifth stream: 704 × 576 (1–25fps);704 × 480 (1–30fps)
Focal Length		2.7mm-12mm					Stream Capability	5 streams
Max. Aperture		F1.2 Horizontal: 114°(W)–47°(T)					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)
Field of View		Vertical: 59°(W)–27°(T) Diagonal: 141° (W–55°(T)					Bit Rate Control	CBR/VBR
Iris Type		Auto;Precise	cise iris control				Video Bit Rate	H.264: 32 Kbps–10240 Kbps
Close Focus Distance		W: 1 m (W: 3.28 ft) T: 2.5 m (T: 8.20ft)						H.265: 12 Kbps–10240 Kbps
	Lens	Detect	Observe	Recognize	Identify		Day/Night BLC	Auto (ICR)/Color/B/W
DORI	W	60.1 m (197.18 ft)	24 m (78.74 ft)	12 m (39.37 ft)	6 m (19.69 ft)		HLC	Yes
Distance	T	128.6 m	51.4 m	25.7 m	12.8 m		WDR	140 dB
	Т	(421.92 ft)	(168.64 ft)	(84.31 ft)	(41.99 ft)		Scene Self-adaptation	Yes
Smart ever	nt						·	Auto/natural/street lamp/outdoor/manual/regional
IVS		Abandoned object, moving object					White Balance	custom
Professiona	al, intelligent						Gain Control	Auto/Manual
IVS (Perimeter	Protection)	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection					Noise Reduction	3D NR
		of vehicle and human); parking detection, loitering detection, and people gathering.					Motion Detection	OFF/ON (4 areas, rectangular)
		Face detection, track, priority, snapshot, Upload Optimized snapshot picture; face					Region of Interest(RoI)	Yes (4 areas)
			napsnot pictur nt, face exposi and 8 expressi	ure, face attrib			Electronic Image Stabilization(EIS)	Yes
Face Detection	n	expressions (anger, sadness, disgust, fear, surprise, calm, happiness and confusion), Mouth mask, beard; Face matting setting: face, single inch photo Three snapshot;					Smart Illumination	Yes
, ace Detection							Defog	Yes
		methods: real-time snapshot, priority snapshot, quality priority; Face angle filter Priority time setting; Support Duration Optimal,Non-living Filtering;					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
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; externalarm; face detection; 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
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: 80M)
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	
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	3 channel In: 5mA 5V DC
Alarm Output	2 channel Out: 1000mA 30V DC/500mA 50V AC
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
Storage 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") (L × W × H)

Net Weight	1500 g (3.31lb)
Gross Weight	1600 g (3.53 lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HDBW7442HP-Z	4MP IR Dome WizMind Network Camera,PAL			
4MP Camera	DH-IPC- HDBW7442HN-Z	4MP IR Dome WizMind Network Camera,NTSC			
4WII Camera	IPC- HDBW7442HP-Z	4MP IR Dome WizMind Network Camera,PAL			
	IPC- HDBW7442HN-Z	4MP 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:







PFA773

PFB210W

PFA152-E





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

Dimensions (mm[inch])



