

DH-IPC-HDBW7842H-Z

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.

- \cdot 8MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- · Max outputs 8MP (3840×2160) @25fps/30fps
- \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
- \cdot 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 grade
- · Anti-corrosion coating(optional)
- · 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.

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.

Technical Specification							ANPR, track, priority, snapshot Vehicle attributes: license plate, vehicle type, vehicle
Camera						ANPR	color, vehicle brand Other attributes: sun visor, seat belt, smoking,
Image Sensor		1/1.8" 8Megapixel progressive CMOS					phoning, in-car accessories, annual vehicle inspection mark
Max. Resolution		3840 (H) × 2160 (V)				Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes
ROM		4 GB					extraction.
RAM	RAM						Support tripwire number counting, people counting in area, and displaying and outputting yearly/monthly/daily reports. Support queue management, and
Scanning Syste	em	Progressive				People Counting	displaying and outputting monthly/daily reports. Support 4 tripwire rules configuration, people
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					counting in 4 areas, and 4 queue management functions
Min. Illumination		0.003 Lux@F1.2 (Color, 30IRE) 0.0003 Lux@F1.2 (B/W, 30IRE) 0 Lux (Illuminator on)				Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to
S/N Ratio		> 56 dB					event videos.
Illumination D	istance	40 m (131.23 ft)				Video	
Illuminator Or	n/Off Control	Auto				Video Compression	H.265, H.264, H.264H, H.264B, MJPEG
Illuminator Nu	umber	3 (IR LED)				Smart Codec	Smart H.265+/ Smart H.264+
Pan/Tilt/Rotation Range Lens		Pan: 0°–355 Tilt: 0°–80° Rotation: 0°-				Video Frame Rate	Main Stream: 3840 × 2160 (1–25/30 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)
Lens Type		Motorized v	ari-focal			Stream Capability	5 streams
Mount Type		Module interface				Stream capasinty	8M (3840 × 2160)/6M (3072 × 2048/3072 × 1728)/5M (2592 × 1944)/4M (2688 × 1520)/3M (2048 ×
Focal Length	Focal Length		nm			Resolution	1536/2304 × 1296//1080p(1920 × 1080)/1.3M (1280 × 960)/720p(1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)
Max. Aperture	Max. Aperture		14.49(\4) 479(T	-1		Bit Rate Control	CBR/VBR
Field of View	Field of View		114°(W)–47°(T (W)–27°(T) 1° (W–55°(T))		Video Bit Rate	H.264: 32 Kbps–16384 Kbps H.265: 12 Kbps–16384 Kbps
Iris Type		Auto;Precise iris control				Day/Night	Auto (ICR)/Color/B/W
Close Focus D	istance	w: 1 m (W: 3 T: 2.5 m (T: 8				BLC	Yes
	Lens	Detect	Observe	Recognize	Identify	HLC	Yes
DORI	W	87 m	34.9 m	17.4 m	8.7 m	WDR	120 dB
Distance	VV	(285.43 ft)	(144.50 ft)	(57.08 ft)	(28.54 ft)	Scene Self-adaptation (SSA)	Yes
	Т	186.7 m (612.53 ft)	74.7 m (245.08 ft)	37.3 m (122.37 ft)	18.6 m (61.02 ft)	White Balance	Auto/natural/street lamp/outdoor/manual/regional
Smart ever	nt					Write Balarice	custom
IVS		Abandoned	object, moving	g object		Gain Control	Auto/Manual
Profession					Noise Reduction	3D NR	
			,	oving (the thre		Motion Detection	OFF/ON (4 areas, rectangular)
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.				Region of Interest(RoI)	Yes (4 areas)
Face Detection		Face detecti	on, track, prio	rity, snapshot,	Upload	Electronic Image Stabilization(EIS)	Yes
		enhanceme		ure, face attrib		Smart Illumination	Yes
		expressions	(anger, sadnes	ions: Gender, a ss, disgust, fear usion). Mouth r	r, surprise,	Defog	Yes
		calm, happiness and confusion), Mouth mask, beard; Face matting setting: face, single inch photo Three snapshot;				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution or below.)
		priority;	·		apshot, quality	Mirror	Yes
		Face angle filter Priority time setting; Support Duration Optimal, Non-living Filtering;					

Privacy Masking	20 areas
Audio	
Audio Compression	G.711a; G.711Mu; G726; 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; externa alarm; 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
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; ISAPI; RTMP
User/Host	20(Total bandwidth: 160M)
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	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	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)

Structure

Casing	Metal+Plastic
Dimensions	129.1 mm \times Φ 157.9 mm (5.08" \times Φ 6.22") (L \times W \times H)
Net Weight	1500 g (3.31lb)
Gross Weight	1600 g (3.53 lb)
Installation	Ceiling Mount; side Mount; pole Mount

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HDBW7842HP-Z	8MP IR Dome WizMind Network Camera,PAL			
8MP Camera	DH-IPC- HDBW7842HN-Z	8MP IR Dome WizMind Network Camera, NTSC			
own Camera	IPC- HDBW7842HP-Z	8MP IR Dome WizMind Network Camera,PAL			
	IPC- HDBW7842HN-Z	8MP IR Dome WizMind Network Camera, NTSC			
	PFA773	Sun Shade			
	PFB211W	Wall Mount			
Accessories (Optional)	PFA152-E	Pole Mount			
	PFA101	Mount Adapter			
	PFB300C	Ceiling Mount			

Accessories

Optional:







PFA773

PFB211W

PFA152-E





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

Dimensions (mm[inch])



