



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.

- · 8MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- · Max outputs 8MP (3840×2160) @25fps/30fps
- · 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
- · 24V AC/PoE/12V DC power support
- · Five streams for three-channel HD video
- · IP67, IK10 protection grade
- \cdot 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.

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				video ivictadata	extraction.
RAM		2 GB				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
Scanning System		Progressive					
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				, copie odanano	
Min. Illumination		0.003 Lux@F1.2					
S/N Ratio	S/N Ratio					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to
Illumination Distance		40 m (131.23 ft)				memgent search	event videos.
Illuminator Or	n/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°				Smart Codec	Smart H.265+/ Smart H.264+
Lens Lens Type		Rotation: 0°–355° Motorized vari-focal				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)
Mount Type		Module interface				Character Council like	Fifth stream: 704 × 576 (1–25fps);704 × 480 (1–30fps)
						Stream Capability	5 streams
Focal Length Max. Aperture		2.7mm-12mm F1.2 Horizontal: 114°(W)–47°(T)				Resolution	8M (3840 × 2160)/6M (3072 × 2048/3072 × 1728)/5M (2592 × 1944)/4M (2688 × 1520)/3M (2048 × 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)
Field of View		Vertical: 59°(W)–27°(T) Diagonal: 141° (W–55°(T)				Bit Rate Control	CBR/VBR
Iris Type		Auto;Precise iris control				Video Bit Rate	H.264: 32 Kbps–16384 Kbps
Close Focus Distance		w: 1 m (W: 3.28 ft) T: 2.5 m (T: 8.20 ft)				Day/Night	H.265: 12 Kbps–16384 Kbps Auto (ICR)/Color/B/W
	Lens	Detect	Observe	Recognize	Identify	BLC	Yes
DORI	W	87 m (285.43 ft)	34.9 m (144.50 ft)	17.4 m (57.08 ft)	8.7 m (28.54 ft)	HLC	Yes
Distance	т.	186.7 m	74.7 m	37.3 m	18.6 m	WDR	120 dB
	T	(612.53 ft)	(245.08 ft)	(122.37 ft)	(61.02 ft)	Scene Self-adaptation	Yes
Smart ever	Smart event			ohiect		White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
	al, intelligent	Abandoned object, moving object				Gain Control	Auto/Manual
11010331011	ai, intelligent	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering				Noise Reduction	3D NR
IVS (Perimeter	r Protection)					Motion Detection	OFF/ON (4 areas, rectangular)
		detection, and people gathering.				Region of Interest(RoI)	Yes (4 areas)
Face Detection		Face detection, track, priority, snapshot, Upload Optimized snapshot picture; face enhancement, face exposure, face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses,				Electronic Image Stabilization(EIS)	Yes
		expressions	(anger, sadnes	s, disgust, fear	r, surprise,	Smart Illumination	Yes
			ness and confu g setting: face,			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; 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	
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; 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 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)	
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		
טוווופווטוטווט	129.1 mm × Φ157.9 mm (5.08" × Φ6.22") (L × W × H)	

Net Weight	1500g(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	Wall Mount			
	PFB210W	Wall Mount			
Accessories (Optional)	PFA152-E	Pole Mount			
	PFA101	Wall Mount			
	PFB300C	Ceiling Mount			

Accessories

Optional:





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

PFA152-E

Dimensions (mm[inch])



