



DH-IPC-HDBW5842H-Z4HE

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 starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera 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.

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.

- 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
- · Three streams for two-channel HD video
- IP67, IK10 protection
- Anti-corrosion coating(optional)
- 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.

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.

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.

Tochmical	Cussification							Support tripwire number counting; people counting in
Technical Specification						area, and displaying and outputting yearly/monthly/daily reports. Support queue management, and displaying and outputting yearly/monthly/daily reports. Support 4 tripwire rule configuration, people counting in		
Camera							People Counting	
Image Sensor		1/1.8″8Megapixel progressive CMOS						
Max. Resolution		3840 (H) × 2160 (V)						4 areas, and 4 queue managements. Work together with Smart NVR to perform refine
ROM		4 G					Intelligent Search	intelligent search, event extraction and merging to event videos.
RAM		2 G					Video	
Scanning System		Progressive					Video Compression	H.265; H.264; H.264H; H.264B;MJPEG (only
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Smart Codec	supported by the sub stream) Smart H.265+/H.264+
Min. Illumination		0.005 Lux@F1.6 (Color, 30IRE) 0.0005 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)					Video Frame Rate	Main Stream: 3840 × 2160 (1-25/30 fps) Sub stream: 704 × 576 (1-25 fps)/704 × 480 (1–30 fps)
S/N Ratio		> 56 dB					Stroom Canability	Third stream: 1920 × 1080 (1-25/30 fps)
Illumination	Distance	80 m (262.5 ft)					Stream Capability	3 streams 8M (3840 × 2160); 6M (3072 × 2048/3072 × 1728);
Illuminator On/Off Control Illuminator Number		Auto/Manual 3 (IR LED)					Resolution	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
		Pan: 0°-355°					Bit Rate Control	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480) CBR/VBR
Pan/Tilt/Rotation Range		Tilt: 0°–80° Rotation: 0°–	355°					H.264: 32 kbps–16384 kbps
Lens							Video Bit Rate	H.265: 12 kbps–16384 kbps
Lens Type		Motorized vari-focal					Day/Night	Auto (ICR)/Color/B/W
Mount Type		Module					BLC	Yes
Focal Length		8 mm-32 mm					HLC WDR	Yes 120 dB
Max. Aperture		F1.6 (Constant)					Scene Self-adaptation (SSA)	Yes
Field of View		Horizontal: 40° (W)–15° (T) Vertical: 23° (W)–9° (T)					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Iris Type		Diagonal: 45° (W)–17° (T) Auto					Gain Control	Auto/Manual
		W: 2.5 m (8.20 ft)					Noise Reduction	3D NR
Close Focus Distance		T: 6 m (19.68 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
	Lens	Detect	Observe	Recognize	Identify		Region of Interest (RoI)	Yes (4 areas)
DORI Distance	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)		Electronic Image Stabilization (EIS)	Yes
	Т	580.0 m (1902.9 ft)	232.0 m (761.2 ft)	116.0 m (380.6 ft)	58.0 m (190.3 ft)		Smart Illumination	Yes
Smart Eve	ent	(1302.3 II) (701.2 II) (380.6 II) (130.3 II)				Defog	Yes	
IVS			bject; moving	object			Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)
Professio	Professional, intelligent						Mirror	Yes
		Tripwire, intrusion, fast moving (the three functions					Privacy Masking	4 areas
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); parking detection, loitering					Audio	
Face Detection		detection, and people gathering.					Audio Compression	G.711a; G.711Mu; G726; G.723
		Face detection, track, priority, snapshot; Upload Optimized snapshot picture; 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, beard; Face matting setting: face, single inch photo; Three snapshot methods: real-time snapshot, priority snapshot, quality priority; Face angle filter Priority time setting; Support Duration Optimal,Non-living Filtering;					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
		Support Suration Optimal, Non-living Littering,						exception,queue management

Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
Cyber Security	Video encryption; firmware encryption; configuratio 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; RTSP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMB PPPoE; 802.1x; SNMP; Bonjour		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P; RTMP		
User/Host	20 (Total bandwidth: 160 M)		
Storage	FTP; SFTP; Micro SD card (support max. 256 G); 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,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	1 channel (3-pin terminal with 2.54mm clearance; with audio cable)		
Audio Output	1 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); ePoE		
Power Consumption	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)		
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, Anti-Corrosion Protection: NEMA 4X (optional)		
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-HDBW5842HP-Z4HE	8MP IR Dome WizMind Network Camera, PAL			
8M	DH-IPC-HDBW5842HN-Z4HE	8MP IR Dome WizMind Network Camera, NTSC			
Camera	IPC-HDBW5842HP-Z4HE	8MP IR Dome WizMind Network Camera, PAL			
	IPC-HDBW5842HN-Z4HE	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



Junction Mount	Wa ll Mount	Wa ll Mount
Pole Mount(Vertical)	Cei l ing Mount	



Dimensions (mm[inch])



