



DH-IPC-HDBW5842H-ZHE

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 dustproof 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
- · Max outputs 8MP (3840 × 2160) @ 25 fps/30 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, built-in ports, without cables
- · 24V AC/12V DC/PoE power supply
- · Three streams for two-channel HD video
- · IP67, IK10 protection grade
- · 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.

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.

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.

Technical Specification						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
Camera							
Image Sensor		1/1.8" 8Megapixel progressive CMOS					
Max. Resolution		3840 (H) × 2160 (V)				Intelligent Search	functions Work together with Smart NVR to perform refine
ROM		4 GB					intelligent search, event extraction and merging to event videos.
RAM		2 GB				Video	
Scanning System		Progressive				Video Compression	H.265, H.264, H.264H, H.264B, MJPEG(only supported by sub stream)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				Smart Codec	Smart H.265+/ Smart H.264+
Min. Illumination		0.003 Lux@F1.2 (Color, 30IRE) 0.0003 Lux@F1.2 (B/W, 30IRE) 0 Lux (Illuminator on)				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)
S/N Ratio		> 56 dB				Stream Capability	3 streams
Illumination Distance Illuminator On/Off Control		40 m (131.23 ft) Auto/Manual				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)
Illuminator Number		3 (IR LED)				Bit Rate Control	CBR/VBR
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°				Video Bit Rate	H.264: 32 Kbps–16384 Kbps H.265: 12 Kbps–16384 Kbps
Lens						Day/Night	Auto (ICR)/Color/B/W
Lens Type		Motorized vari-focal				BLC	Yes
Mount Type		Module interface				HLC	Yes
Focal Length		2.7 mm-12 mm				WDR	120 dB
Max. Aperture		F1.2				Scene Self-adaptation (SSA)	Yes
Field of View		Horizontal: 114°(W)–47°(T) Vertical: 59°(W)–27°(T)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Iris Type		Diagonal: 141° (W–55°(T) Auto				Gain Control	Auto/Manual
		w: 1 m (W: 3.28 ft)				Noise Reduction	3D NR
Close Focus Distance		T: 2.5 m (T: 8.20 ft)				Motion Detection	OFF/ON (4 areas, rectangular)
	Lens	Detect	Observe	Recognize		Region of Interest(RoI)	Yes (4 areas)
DORI Distance	W	87.2 m (286.09 ft)	34.9 m (144.50 ft)	17.4 m (57.08 ft)	8.7 m (28.54 ft)	Electronic Image Stabilization(EIS)	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)	Smart Illumination	Yes
Smart event						Defog	Yes
IVS		Abandoned object, moving object				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution or below.)
Profession	Professional, intelligent				Mirror	Yes	
N/C /Designation	IVS (Perimeter Protection)			oving (the thre and accurate d		Privacy Masking	4 areas
ivs (Perimeter			d human); par nd people gath	king detectior nering.	n, loitering	Audio	
				rity, snapshot;		Audio Compression	G.711a; G.711Mu; G726; G.723
Face Detection		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.				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 counting exception detection; safety exception, Queue Management

Network	RJ-45 (10/100 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: HTTP5; 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; P2P;RTMP				
User/Host	20 (Total bandwidth: 160 M.)				
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,L 50E NEMA Type 4X (optional)				
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); 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				
Storage conditions	-40°C to +60°C (-40°F to +140°F)				
Protection Grade	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)				
Structure					
Structure					
Structure Casing	Metal + Plastic				
	Metal + Plastic 129.1 mm × Φ157.9 mm (5.08" × Φ6.22") (L × W × H)				
Casing					

Ordering Information							
Туре	Part Number	Description					
	DH-IPC- HDBW5842HP- ZHE-2712F- DC12AC24V	8MP IR Dome WizMind Network Camera,PAL					
8MP Camera	DH-IPC- HDBW5842HN- ZHE-2712F- DC12AC24V	8MP IR Dome WizMind Network Camera,NTSC					
	IPC-HDBW5842HP- ZHE-2712F- DC12AC24V	8MP IR Dome WizMind Network Camera,PAL					
	IPC-HDBW5842HN- ZHE-2712F- DC12AC24V	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	Wall Mount
Pole Mount(Vertical)	Ceiling Mount	

Dimensions (mm[inch])



