

DH-IPC-HCBW8442

4MP WizMind Corner 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 H.265 encoding technology, Dahua WizMind corner series network camera has efficient encoding capacity, which helps to save bandwidth and storage space. The camera adopts starlight technology, intelligent IR technology, and intelligent image analysis technology; and has waterproof function, dust-proof function and vandal-proof function, complying to the standards of IP67 and IK10+(50J).

Functions

Smart (H.265+ & 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.

Starlight

Dahua Starlight technology mainly applies to the environment of low illuminance, and it can provide clear colorful video. Even in the environment of ultra-low illuminance, the technology can guarantee the good image effect.

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.

- 1/1.8" 4Megapixel progressive scan CMOS
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- 25/30 fps@2688 × 1520
- WDR (140 dB), Day/Night (ICR), 3D NR, AWB, AGC, BLC
- 2.5 mm fixed lens, distortion correction
- 1/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 10 m
- IP67 and IK10+ (50J) protection



Distortion Correction

With advanced distortion correction algorithm, Dahua Distortion Correction corrects the image distortion in both horizontal and vertical directions to be consistent with the actual situation.

Invisible IR LED Illuminator (940 nm)

With 940 nm IR LED, the IR LED Illuminator of the camera is invisible to naked eyes.

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.

Protection (IP67, IK10+, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10+: The enclosure can stand the punch more than 3 times from a 5 kg hammer falling from a height of 100 cm (Impact energy is 50J). Wide voltage: The camera allows \pm 30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification

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Camera							
Image Sensor	1/1.8"4Megapixel progressive CMOS						
Max. Resolution	2688 (H) ×1520 (V)						
ROM	128 MB						
RAM	512 MB						
Scanning System	Progressive						
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100000 s						
Min. Illumination	0.004 Lux@F2.0 (Color, 30IRE) 0.0004 Lux@F2.0 (B/W, 30IRE) 0 lux (Illuminator on)						
Illumination Distance	10 m (32.8 ft) (monitoring distance)						
Illuminator On/Off Control	Auto/Manual						
Illuminator Number	2						
Pan/Tilt/Rotation Range	Vertical: -10° to +10° Rotation: 0° to 355°						
Lens							
Lens Type	Fixed						
Mount Type	M12						
Focal Length	2.5 mm						
Max. Aperture	F2.0						
Field of View	Horizontal: 135° Vertical: 90°						
Iris Type	Fixed aperture						
Close Focus Distance	0.4 m (1.3 ft)						
DORI Distance	Detect	Observe	Recognize	Identify			
DORI Distance	34.5 m (113.2 ft)	13.8 m (45.3 ft)	6.9 m (22.6 ft)	3.4 m (11.2 ft)			
Smart event							
General IVS Analytics	Abandoned object; moving object						
Heat Map	Yes						
Professional, intelligent							
Perimeter Protection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection						
People Counting	Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/monthly/daily reports Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm						
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.						

Video			
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)		
Smart Codec	Smart H.265+/ Smart H.264+		
Video Frame Rate	Main stream: 2688 × 1520 (1 fps–25/30 fps) Sub stream: D1 (1 fps–25/30 fps) Third stream: 1080p (1 fps–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.		
Stream Capability	3 streams		
Resolution	2688 × 1520; 2560 × 1440; 2304 × 1296; 2016 × 1512; 1080p (1920 × 1080); UXGA(1600 × 1200); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF(352 × 288/352 × 240)		
Bit Rate Control	CBR; VBR		
Video Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps		
Day/Night	Auto (ICR)/Color/B/W		
BLC	Yes		
WDR	140 dB		
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Gain Control	Manual/Auto		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	Yes (4 areas)		
Electronic Image Stabilization (EIS)	Yes		
Smart Illumination	Yes (Adjust by user)		
Defog	Yes		
Image Rotation	0°/90°/180°/270°		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Built-in MIC	Yes		
Audio Compression	G.711a; G.711Mu; G726;		
Network			
Network	RJ-45 (10/100 Base-T)		
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; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS;UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP		
Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec; P2P		

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Scene self-adaptation (SSA)	Yes	Ordering Information		
User/Host	20 (Total bandwidth: 80 M.)	Туре	Part Number	Description
Edge Storage	FTP; NAS; Micro SD card (support max. 256 G)		DH-IPC- HCBW8442P	4MP WizMind Corner Network Camera, PAL
Browser	IE: Versions later than IE 8 Google Firefox	4MP Camera	DH-IPC- HCBW8442N	4MP WizMind Corner Network Camera,NTSC
	Apple: versions later than Safari 12		IPC-HCBW8442P	4MP WizMind Corner Network Camera, PAL
Management Software	Smart PSS; DSS; DMSS		IPC-HCBW8442N	4MP WizMind Corner Network Camera,NTSC
Mobile Phone	IOS, Android			
Certification		Cor	ner Mount	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B			
Port				
RS-485	1 (Baud rate range: 1200 bps-115200 bps)			
Audio Input	1 channel (Terminal)			
Audio Output	1 channel (Terminal)			
Alarm Input	1 channel in: 5mA 3V–5V DC			
Alarm Output	1 channel out: 300mA 12V DC	Dimensior	ns (mm[inch])	
Power				
Power Supply	12V DC/PoE (802.3af) /ePOE	212.0	0 [8.35]	
Power Consumption	Basic power consumption: 3W (12V DC); 3.6W (PoE) Max. power consumption (ICR + IR full intensity): 9.5W (12V DC); 11.5W (PoE)		89.5 [3.52]	
Environment		0		
Operating Temperature	-30°C to +60°C (-22°F to +140°F)			
Operating Humidity	≤95%			
Storage Temperature	-30°C to +60°C (-22°F to +140°F)			
Ingress Protection	IP67; IK10+(50J)			
Structure				
Casing	Metal			
Dimensions	209.4 mm × 212.0 mm × 103.1 mm (8.2" × 8.3" × 4.1") (L × W × H)			
Net Weight	1365 g (3.0 lb)			
Gross Weight	1465 g (3.2 lb)			

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