



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.

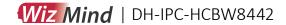
Cyber Security

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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification				Video		
Camera				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	
Image Sensor	1/1.8"4Megapixel progressive CMOS				Consent Control	
Max. Resolution	2688 (H) ×1520 (V)				Smart Codec	Smart H.265+/ Smart H.264+
ROM	128 MB					Main stream: 2688 × 1520 (1 fps–25/30 fps) Sub stream: D1 (1 fps–25/30 fps)
RAM	512 MB				Video Frame Rate	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.
Scanning System	Progressive					
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s				Stream Capability	3 streams
Min. Illumination	0.004 Lux@F2.0 (Color, 30IRE) 0.0004 Lux@F2.0 (B/W, 30IRE) 0 lux (Illuminator on)				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)
Illumination Distance	10 m (32.8 ft) (monitoring distance)				Bit Rate Control	CBR; VBR
Illuminator On/Off Control	Auto/Manual				Video Bit Rate	H.264: 32 Kbps-8192 Kbps
Illuminator Number	2	2				H.265: 19 Kbps-8192 Kbps
Pan/Tilt/Rotation Range	Vertical: -10 Rotation: 0°				Day/Night	Auto (ICR)/Color/B/W
Lens					BLC	Yes
Lens Type	Fixed				WDR	140 dB
Mount Type	M12				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Focal Length	2.1 mm				Gain Control	Manual/Auto
Max. Aperture	F2.0				Noise Reduction	3D NR
Field of View	Horizontal: 135°				Motion Detection	OFF/ON (4 areas, rectangular)
	Vertical: 90°				Region of Interest (RoI)	Yes (4 areas)
Iris Type	Fixed aperture				Electronic Image Stabilization (EIS)	Yes
Close Focus Distance	0.4 m (1.3 ft)				Smart Illumination	Yes (Adjust by user)
DORI Distance	Detect 34.5 m	Observe 13.8 m	Recognize 6.9 m	Identify 3.4 m	Defog	Yes
	(113.2 ft)	(45.3 ft)	(22.6 ft)	(11.2 ft)	Image Rotation	0°/90°/180°/270°
Smart event					Mirror	Yes
General IVS Analytics	Abandoned object; moving object				Privacy Masking	4 areas
Heat Map	Yes				Audio	
Professional, intelligent	ntelligent				Built-in MIC	Yes
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				Audio Compression	G.711; G.711a; G.711Mu; G726; AAC
refilleter Protection					Network	
	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				Network	RJ-45 (10/100 Base-T)
People Counting					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; IP Filter; Password protection
Intelligent Search	configuration. Count number of people or stay time and link alarm Work together with Smart NVR to perform refine intelligent search, event extraction and merging to			m refine	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; SSL
event videos.			5.0	Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec	

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Scene self-adaptation (SSA)	Yes
User/Host	20 (Total bandwidth: 80 M.)
Edge Storage	FTP; NAS; Micro SD card (support max. 256 G)
Browser	IE: Versions later than IE 8 Google Firefox Apple: versions later than Safari 12
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS, Android

Ordering Information Type Part Number Description DH-IPC-HCBW8442P 4MP WizMind Corner Network Camera,PAL 4MP Camera DH-IPC-HCBW8442N 4MP WizMind Corner Network Camera,NTSC IPC-HCBW8442P 4MP WizMind Corner Network Camera,PAL IPC-HCBW8442N 4MP WizMind Corner Network Camera,NTSC

Certification	
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)

Corner Mount	

Power

Alarm Input

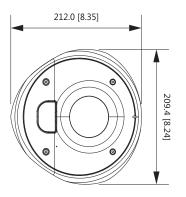
Alarm Output

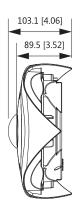
Power Supply	12V DC/PoE (802.3af) /ePOE
Power Consumption	Basic power consumption: 3W (12V DC); 3.6W (PoE) Max. power consumption (ICR + IR full intensity): 9.5W (12V DC); 11.5W (PoE)

1 channel in: 5mA 3V-5V DC

1 channel out: 300mA 12V DC

Dimensions (mm[inch])





Environment

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)