

## 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"4Mega	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)				
	Detect	Observe	Recognize	Identify	
	34.5 m (113.2 ft)	13.8 m (45.3 ft)	6.9 m (22.6 ft)	3.4 m (11.2 ft)	
DORI Distance	*DORI (Dete standard syst of a person v or objects wi table do not intelligent fu commissioni	g the ability sh persons nbers in this stances. For tallation and			
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				

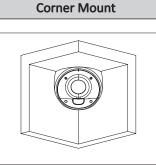
Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm

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		

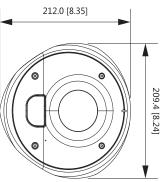
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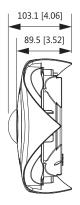
Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec; P2P	Orderi
Scene self-adaptation (SSA)	Yes	Туре
User/Host	20 (Total bandwidth: 80 M.)	
Edge Storage	FTP; NAS; Micro SD card (support max. 256 G)	4MP Carr
Browser	IE: Versions later than IE 8 Google Firefox Apple: versions later than Safari 12	
Management Software	Smart PSS; DSS; DMSS	
Mobile Phone	IOS, Android	
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)	
Alarm Input	1 channel in: 5mA 3V–5V DC	Dimen
Alarm Output	1 channel out: 300mA 12V DC	
Power		
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)	0
Environment		
Operating Temperature	-30°C to +60°C (-22°F to +140°F)	
Operating Humidity	≤95%	N.
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)	

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



#### Dimensions (mm[inch])





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