

DH-IPC-HCBW8442

4MP WDR IR Corner Network Camera



- 1/1.8" 4Megapixel progressive scan CMOS
- · H.265 & H.264 triple-stream encoding
- · 25/30 fps@2688 × 1520
- WDR (140 dB), Day/Night (ICR), 3D DNR, 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











System Overview

With advanced H.265 encoding technology, Dahua corner 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 water-proof 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.

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.

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 passes strict vandal-proof test, and it can stand the punch of 50J impact energy.

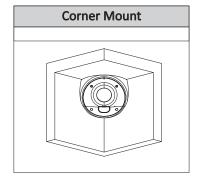
Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification						50 Hz: Main Stream: 2688 × 1520 @25 fps; sub stream: 704 ×
Camera					576 @25 fps; third stream: 704 × 576 @25 fps Main Stream: 2688 × 1520 @25 fps; sub stream: 704 ×	
Image Sensor	1/1.8"4Megapixel progressive CMOS				Video Frame Rate	576 @25 fps; third stream: 1920 × 1080 @11 fps 60 Hz: Main Stream: 2688 × 1520 @30 fps; sub stream: 704 × 480 @30 fps; third stream: 704 × 480 @12 fps Main Stream: 2688 × 1520 @30 fps; sub stream: 704 × 480 @30 fps; third stream: 1920 × 1080 @1 fps
Effective Pixels	2688 (H) ×1520 (V)					
ROM	128 MB					
RAM	512 MB				Stream Capability	3 streams
Scanning System	Progressive				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)
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s					
Min. Illumination	0.004 Lux@	F2.0 (Color, 1/	3 s, 30 IRE)		Bit Rate Control	CBR; VBR
IR Distance	10 m (32.8 f	t) (monitoring	distance)		Video Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
IR On/Off Control	Auto				Day/Night	ICR switch
IR LEDs Number	2				BLC	Yes
Pan/Tilt/Rotation Range	Vertical: -10° to +10° Rotation: 0° to 355°				WDR	140 dB
Lens				Auto/natural/street lamp/outdoor/manual/regional		
Lens Type	Fixed				White Balance	custom
Mount Type	M12				Gain Control	Manual/Auto
Focal Length	2.5 mm				Noise Reduction	3D DNR
-					Motion Detection	OFF/ON (4 areas, rectangular)
Max. Aperture	F2.0 Horizontal: 135°				Region of Interest(RoI)	Yes (4 areas)
Field of View	Vertical: 90°				Electronic Image Stabilization(EIS)	Yes
Iris Type	Fixed aperture				Smart IR	Yes (Adjust by user)
Close Focus Distance	0.4 m (1.3 ft)				Defog	Yes
DORI Distance	Detect	Observe	Recognize	Identify	Image Rotation	0°/90°/180°/270°
	34.5 m (113.2 ft)	13.8 m (45.3 ft)	6.9 m (22.6 ft)	3.4 m (11.2 ft)	Mirror	Yes
Smart event					Privacy Masking	4 areas
General IVS Analytics	Abandoned	object; movin	g object		Audio	
Heat Map	Yes				Built-in MIC	Yes
Professional, intelligent	Professional, intelligent				Audio Compression	G.711a; G.711Mu; G726; AAC
Perimeter Protection	Tripwire; intrusion; loitering detection; people gathering.			eople	Network	
	Entry numbe	er and exit nur	mber counting	: Support	Network	RJ-45 (10/100 Base-T)
People Counting	configuring monthly/and People coun	4 rules, and di nual report ting in area: S	splay and outp	ut daily/ Iring 4 rules	Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP
	Queue management: Support configuring 4 rules, and count the number of people and strand time, and link				Interoperability	ONVIF (Profile S/Profile G); CGI; Milstone; Genetec; P2F
alarm				Scene self-adaptation	Yes	
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.				User/Host	20 (Total bandwidth: 80 M.)
Video					Edge Storage	FTP; NAS; Micro SD card (support max. 256 G)
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG				Browser	IE: Versions later than IE 8 Google
Smart Codec	H.264: Yes H.265: Yes					Firefox Apple: versions later than Safari 12

Corner Network Camera Series | DH-IPC-HCBW8442

Management Software	Smart PSS; DSS; P2P	
Mobile Phone	IOS, Android	
Certification		
Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU CE-RED: Radio Equipment Directive 2014/53/EU FCC: 47 CFR FCC Part 15, Subpart B FCC ID: FCC PART 15C	



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

Power

Power Supply	12V DC/PoE
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)

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)

Ordering Information				
Туре	Part Number	Description		
2MP Camera	DH-IPC- HCBW8442P	4MP WDR IR Corner Network Camera, PAL		
	DH-IPC- HCBW8442N	4MP WDR IR Corner Network Camera,NTSC		
	IPC-HCBW8442P	4MP WDR IR Corner Network Camera,PAL		
	IPC-HCBW8442N	4MP WDR IR Corner Network Camera,NTSC		

Dimensions (mm[inch])

