

DH-IPC-HFW8841X-E3

8MP WizMind Triple-Lens 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

Equipped with advanced AI chip and advanced deep learning algorithm, Dahua WizMind Triple-Lens series network camera supports various intelligent functions, such as stereo analysis, people counting and IVS, which provides better intelligent application solutions based on scenes.

Functions

Stand Detection

With deep learning algorithm, the network camera can recognize the target urately, and detect standing actions in the detection area. Under certain conditions, the standing target can be magnified.

In Area No.

With advanced stereo image technology and deep leaning algorithm, Dahua In Area No. technology recognizes human targets urately to count people in area in real-time. You can set people quantity threshold, when the number larger or smaller than the threshold, it triggers linkage. It is applicable in the scene that has limit on people quantity.

Protection (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.

- \cdot 8MP 1/1.8" CMOS and 2MP 1/2.8" CMOS image sensors, low luminance, high definition image.
- · Outputs max. 8MP (3840 × 2160@30 fps).
- · H.265 codec, high compression ratio, and ultra-low bit rate.
- · Built-in IR light, and the max. illumination distance is 30 m.
- · ROI, SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- · WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- · Three intelligent resources switchable: IVS, people counting, and stereo analysis.
- · Tripwire, intrusion, abandoned object, missing object, loitering detection, and people gathering.
- · Stereo analysis: Stand detection.
- · Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; max. 256 G Micro SD card; built-in MIC.
- \cdot Supports HDCVI output, and outputs detail and panoramic image, and stand detection alarm.
- \cdot 12V DC/PoE power supply, 12V power output and max. current of 0.165A, facilitate installation.
- · IP67 protection.









Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, ess control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from comprising the device.

Technical Specification							Video	
Camera							Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Image Sensor		Channel 1: 1/1.8" CMOS Channel 2: 1/2.8" CMOS					Smart Codec	Smart H.265+/Smart H.264+
Max. Resolution		Channel 1: 3840 (H) × 2160 (V) Channel 2: 1920 (H) × 1080 (V)						Channel 1: Main stream: 3840 × 2160@25/30 fps Sub stream: 1920 × 1080@25/30 fps Third stream: 1280 × 720@25/30 fps Fourth stream: 1920 × 1080@25/30 fps
ROM		4 GB						
RAM		4 GB					Video Frame Rate Channel 2: Main stream: 1920 × Sub stream: 1280 × 7 Third stream: 1920 ×	
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						Fourth stream: 1280 × 720@25/30 fps
Min. Illumination		Channel 1: 0.0015 Lux@F1.6 (Color, 30 IRE) 0.0002 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on) Channel 2: 0.002 Lux@F1.6 (Color, 30 IRE) 0.0002 Lux@F1.6 (B/W, 30 IRE)					Stream Capability Resolution	4 streams 3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 × 1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1280 × 960 (1.3M); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
		0 lux (Illuminator on)					Bit Rate Control	CBR/VBR
S/N Ratio Illumination Distance		> 56 dB 30 m (98.4 ft) (IR LED)					Video Bit Rate	Channel 1: H.264: 32 kbps–16,384 kbps H.265: 12 kbps–16,384 kbps
Illuminator On/Off Control		Auto/Manual						Channel 2: H.264: 32 kbps-12,032 kbps
Illuminator Number		2 (IR LED)					Day/Night	H.265: 12 kbps-7,424 kbps Auto (ICR)/Color/B/W
Pan/Tilt/Rotation Range		Pan: 0°-360° Tilt: 0°-90°					BLC	Yes
Lens				HLC	Yes			
Lens Type		Fixed-focal					WDR	120 dB
Lens Mount		M12					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Focal Length		2.8 mm					Gain Control	Auto; manual
Max. Apertu	Max. Aperture		F1.6				Noise Reduction	3D NR
Field of View	Field of View		Channel 1: Horizontal: 110.8°; Vertical: 59°; Diagonal: 131° Channel 2: Horizontal: 106°; Vertical: 57°; Diagonal: 126°				Motion Detection	OFF/ON (4 areas, rectangular)
							Region of Interest (RoI)	Yes (4 areas)
Iris Control Close Focus Distance		Fixed Channel 1: 1.8 m (5.9 ft)					Image Stabilization	Channel 1: Electronic Image Stabilization (EIS) Channel 2: NA
0.000 1 0000		Channel 2: 0.					Smart Illumination	Yes
	Channel	Detect	Observe	Recognize	Identify		Privacy Masking	4 areas
DORI Distance	Channel 1	84 m (275.6 ft)	33.6 m (110.2 ft)	16.8 m (55.1 ft)	8.4 m (27.6 ft)		Audio	
	Channel 2	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)		Built-in MIC	Yes
Smart Event							Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
IVS Tripwire; intrusion; loitering detection; people gathering;				Alarm				
abandoned object; missing object Professional, intelligent					No SD card; SD card no space; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; abandoned object;			
People Counting		Support people counting in 4 areas					Alarm Event	missing object; scene changing; audio detection; sound intensity changing; people gathering; loitering detection;
Stereo Analysis		Classroom: Support stand detection						stand detection; people counting; illegal ess; voltage detection; security exception
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					Network	
		videos					Network Port	RJ-45 (10/100/1,000 Base-T)

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SDK and API	Yes	
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; ount lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
Network 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/Profile T); CGI; Milestone; Genetec; P2P; RTMP	
User/Host	20 (Total bandwidth: 320 M)	
Storage	FTP; SFTP; Micro SD card (Support max. 256 G); NAS	
Browser	IE: IE11 and earlier Chrome: 76 and earlier Firefox: 68 and earlier	
Mobile Client	IOS; Android	
Port		
RS-485	1 (Baud rate range: 1,200 bps–115,200 bps)	
Audio Input	1 channel (3.5 mm JACK port)	
Audio Output	1 channel (3.5 mm JACK port)	
Alarm Input	3 channels in: 5mA 3V–5V DC	
Alarm Output	2 channels out: 1,000mA 30V DC/500mA 50V DC	
Power		
Power Supply	12V DC/PoE (802.3at)	
Power Consumption	Basic: 7.54W (12V DC); 9W (PoE) Max. (WDR + stereo analysis + IR LED intensity): 10.32W (12V DC); 12.94W (PoE)	
Environment		
Operating Temperature	-40°C to +60°C (-40°F to +140°F)	
Operating Humidity	≤ 95%	
Protection	IP67	
Structure		
Casing	Metal + plastic	

Ordering Information							
Туре	Model	Description					
OMD Comerce	DH-IPC- HFW8841X-E3	8MP WizMind Triple-Lens Network Camera					
8MP Camera	IPC-HFW8841X-E3	8MP WizMind Triple-Lens Network Camera					
Accessories (Optional)	PFA154	Pole Mount					

essories

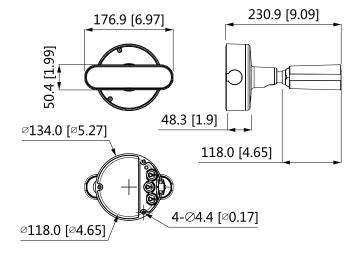
Optional:



PFA154 Pole Mount

Junction Mount	Junction Mount	Pole Mount(Vertical)
	3)	

Dimensions (mm[inch])



Product Dimensions

Net Weight

Gross Weight

 \times W \times H)

1.87 kg (4.1 lb)

2.37 kg (5.2 lb)

176.9 mm \times 230.9 mm \times 50.4 mm (7.0" \times 9.1" \times 2.0") (L