

DH-IPC-HFW5449J-ZYH-IL4-ZQJ

4MP Vari-focal Self-Cleaning Bullet WizMind Network Camera



Functions

AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

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.

Protection (Wide Voltage)

IK10: The enclosure can withstand up to 5 punches from a 5 kg hammer falling from a height of 40 cm (impact energy is 20 J). Wide voltage: The camera has $\pm 30\%$ input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4MP (2688×1520) @25/30 fps.
- Built-in multi-core light, and the max. illumination distance is 60 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports:IVS, face detection.
- Alarm: 2 in, 2 out; audio: 1 in, 1 out; RS-485; power output; supports max. 1 TB Micro SD card, built-in dual Mic.
- With Compound Eye illumination technology, the device minimizes light pollution and provides uniform lighting for enhanced night-time image clarity.
- Includes a built-in 2.6 L water tank with a capacity to hold up to 4 years worth of cleaning solution.
- Equipped with double-blade wipers that keep the device clean and
- Monitors water tank levels, triggering alarms and event linkage when the water is low or empty, or when it has been refilled.
- The built-in gradienter provides a visual display of the horizontal gradient, making installation simpler and more precise.
- Supports sound and light alarms, triggering a sound and flashing light when an alarm is triggered.
- 12 VDC/PoE power supply; PoE.
- IP66 protection.









Technical Specification							Smart Codec	Smart H.265+; Smart H.264+
Camera					Al Coding	AI H.265; AI H.264		
Image Sensor		1/1.8" CMOS						Main stream: 2688 × 1520 (1 fps–25/30 fps)
Max. Resolution		2688 (H) × 1520 (V)				Video Franco Data	Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps)	
ROM		4 GB					Video Frame Rate	The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
RAM		1 GB						
Scanning System		Progressive					Stream Capability	3 streams
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 ×
S/N Ratio		>56 dB					Resolution	1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Illumination Distance		Up to 60 m (196.85 ft) (IR)						
Illuminator On/Off Control		Auto;Zoomprio;Manual					Bit Rate Control	CBR/VBR
Illuminator Number		4 (Multi-core (IR + warm) light)					Video Bit Rate	H.264: 3 kbps-16384 kbps H.265: 3 kbps-16384 kbps
Angle Adjustment		Pan: -5° to +5°					Day/Night	Auto(ICR)/Color/B/W
Lens		Tilt: -70° to +5°					BLC	Yes
Lens Type		Motorized vari-focal					HLC	Yes
Lens Nount		ф16					WDR	140 dB
Focal Length		2.7 mm–12 mm					Scene Self-adaptation (SSA)	Yes
Max. Aperture		F1.2					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Field of View		H: 93°-48°; V: 50°-27°; D: 110°-56°					Gain Control	Auto
Iris Control		Auto					Noise Reduction	3D NR
	Lens	Detect	Observe	Recognize	Identify		Motion Detection	OFF/ON (4 areas, rectangular)
	W	70.9 m (232.61 ft)	28.4 m (93.18 ft)	14.2m (46.59 ft)	7.1m (23.29 ft)		Region of Interest (RoI)	Yes (4 areas)
DORI	Т	128.7m (422.24 ft)	51.5m (168.96 ft)	25.7m (84.32 ft)	12.9m (42.32 ft)		Image Stabilization	Electronic Image Stabilization (EIS)
Distance	*DORI (Detect	et, Observe, Recognize, Identify) is a standard system					Smart Illumination	Yes
	'	-62676-4) for defining the ability of a person viewing the to distinguish persons or objects within a covered area. The others in this table do not reflect intelligent function distances. intelligent function distances, refer to installation and omissioning manual/project design tool.					Defog	Yes
	For intelligent						Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M (2688 \times 1520) resolution and lower)
Intelligenc							Mirror	Yes
		Intrusion, tripwire, fast moving (the three functions					Privacy Masking	8 areas
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle; loitering detection, people gathering, parking					LDC	Yes
		detection.					Audio	
		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement;					Built-in MIC	Yes, built-in dual Mic
Face Detection	Face Detection		e; face attribute d 8 expression:				Built-in Speaker	Yes
		one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot);					Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
		face angle filter; optimization time setting					Alarm	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos						No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast
Video							Alarm Event	moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)						changing; audio detection; voltage detection; external alarm; face detection; security exception; defocus detection

Network			
Network Port	RJ-45 (10/100/1000 Base-T)		
SDK and API	Yes		
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; P2P; Auto Register		
Interoperability	ONVIF (Profile S/Profile G/Profile T/Profile M); CGI		
User/Host	20 (Total bandwidth: 80 M)		
Storage	FTP; SFTP; Micro SD card (support max. 1 TB); NAS		
Browser	IE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and later		
Management Software	SmartPSS Lite; DSS; DMSS		
Mobile Client	iOS; Android		
Security	Trusted execution; Digest; Security logs; WSSE; Account lockout; Syslog; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Generation and importing of X.509 certification		
Port			
RS-485	1 (baud rate range:1200 bps–115200 bps)		
Power Output	12 VDC power output, max. current 165 mA, peak current 700 mA		
Audio Input	1 channel (RCA port)		
Audio Output	1 channel (RCA port)		
Alarm Input	2 channels in: wet contact, 5mA 3V–5V DC		
Alarm Output	2 channel out: wet contact, 300mA 12V DC		
Power			
Power Supply	12 VDC/PoE (802.3at)/PoE		
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.		
Power Consumption	Basic: 3.4 W (12 VDC); 4.9 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 16.3 W (12 VDC); 17.2 W (PoE)		
Environment			
Operating Temperature	-30 °C to +60 °C (−22 °F to +140 °F)		
Operating Humidity	≤95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Storage Humidity	10%–95% (RH), non-condensing		
Protection	IP66		
Structure			
Casing Material	Metal + plastic		
Product Dimensions	274.9 mm × 217.1 mm × 254.8 mm (10.82" × 8.55" × 10.03") (L × W × H)		

3.86 kg (8.51 lb)

Net Weight

Ordering Information						
Туре	Model	Description				
4MP Camera	DH-IPC-HFW5449J-ZYH- IL4-ZQJ	4MP IR Vari-focal Bullet WizMind Network Camera				
	PFA162-SG	Universal Joint				
	PFB606W-SG	Wall Mount Bracket				
Accessories	PFA150-SG	Pole Mount Bracket				
(Optional)	PFM320D	12 VDC 2 A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100	MicroSD Memory Card				

Accessories

Optional:







PFA162-SG Universal Joint

PFB606W-SG Wall Mount Bracket

PFA150-SG Pole mount Bracket



PFM320D 12 VDC 2 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Wall Mount	Pole Mount(Horizontal)	

Dimensions (mm[inch])

