

DH-IPC-HFW3449E-AS-NI

4MP Full-color Fixed-focal Bullet WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Dahua WizSense 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. In addition, with full-color technology, it provides a better image effect in the condition of low illuminance.

Functions

Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Smart H.265+ & Smart 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.

- 4MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520) @ 30 fps
- H.265 codec, high compression rate, low bit rate
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, built-in Mic
- 12V DC/PoE power supply
- IP67 protection
- · SMD Plus













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.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Protection (IP67, 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.

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							Day/Night	Color/B/W
Camera							BLC	Yes
Image Sensor		1/2.7"4Megapixel progressive CMOS					WDR	120 dB
Max. Resolution		2688 (H) × 1520 (V)					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
ROM		128 MB					Gain Control	Auto/Manual
RAM		512 MB					Noise Reduction	3D DNR
Scanning System		Progressive					Motion Detection	OFF/ON (4 areas, rectangular)
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100, 000 s					Region of Interest (RoI)	Yes (4 areas)
Min. Illumination		0.003 Lux @ F1.0					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
S/N Ratio		> 56 dB						resolution and lower.)
Pan/Tilt/Potatio	0 (7)		Til+- 0°_90°- P	otation: 0°=360	n°		Mirror	Yes
Pally Fill/Rotatio	Pan/Tilt/Rotation Range		TIIL: 0 –90 ; K	otation: 0°–360)		Privacy Masking	4 areas
Lens							Audio	
Lens Type		Fixed-focal					Audio Compression	G.711a; G.711Mu; G726; AAC
Mount Type		M12					Alarm	
Focal Length Max. Aperture		2.8 mm; 3.6 mm F1.0					Alarm Event	No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD
Field of View		2.8 mm: Horizontal 103° × vertical 53° × diagonal 122° 3.6 mm: Horizontal 80° × vertical 43° × diagonal 95°						
Iris Type		Fixed					Network	
Close Focus Distance		2.8 mm: 1.2 m (3.9 ft)					Network	RJ-45 (10/100 Base-T)
		3.6 mm: 2.4 n		Di	lalamete.		SDK and API	Yes
DORI Distance	Lens 2.8mm	56.0 m (183.7 ft)	Observe 22.4 m (73.5 ft)	11.2 m (36.7 ft)	5.6 m (18.4 ft)		Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPP0E; 802.1x; SNMP
	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.3 ft)		Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Professional, Intelligent							Scene self-adaptation	Yes
Perimeter Prote	ction	Tripwire, intrusion (Recognition of vehicle and people)					User/Host	20 (Total bandwidth: 64M.)
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
Video		videos					Browser	IE: IE8; IE9; IE11 Chrome Firefox
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Management Software	Smart PSS; DSS; DMSS
Smart Codec		Smart H.265+/ Smart H.264+					Mobile Phone	IOS; Android
		Main stream (2688 × 1520@ 1–25/30 fps)					Certification	
Video Frame Rate		sub stream (704 × 576@ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720@ 1–25/30 fps)					Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Stream Capability		3 streams						
Resolution		4M (2688 × 1520); 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					Port	
		× 240)					Audio Input	1 channel (RCA port)
Bit Rate Control		CBR; VBR					Audio Output	1 channel (RCA port)
Video Bit Rate		H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps					Alarm Input	1 channel in: 5mA 3V–5V DC

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Alarm Output	1 channel out: 300mA 12V DC		
Power			
Power Supply	12V DC/PoE		
Power Consumption	< 4.4W		
Environment			
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than 95%		
Storage Conditions	-40°C to +60°C (-40°F to +140°F)		
Protection Grade	IP67		
Structure			

Structure

Casing	Metal
Dimensions	192.7 mm × 70.5 mm × 66.4 mm (632.2" × 231.3" × 217.8") (L × W × H)
Net Weight	590 g (1.3 lb)
Gross Weight	780 g (1.7 lb)

Ordering Information						
Туре	Part Number	Description				
4MP Camera	DH-IPC-HFW3449EP-AS-NI	4MP Full-color Fixed-focal Bullet WizSense Network Camera, PAL				
	DH-IPC-HFW3449EN-AS-NI	4MP Full-color Fixed-focal Bullet WizSense Network Camera, NTSC				
	PFA134	Junction Box				
	PFA152-E	Pole Mount				
Accessories	PFM321D	DC12V1A Power Adapter				
(optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender				
	PFM900-E	Integrated Mount Tester				
	PFM114	TLC SD Card				

Accessories

Optional:







LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFA152-E Pole Mount



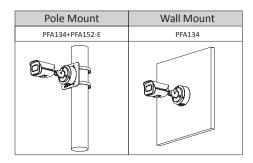
PFM900-E Integrated Mount tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD card



Dimensions (mm[inch])

