



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.

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, 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.



Day/Night

Color/B/W

Technical Specification						BLC	Yes
Camera						WDR	120 dB
Image Sensor		1/2.7"4Megapixel progressive CMOS				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Max. Resolution		2688 (H) × 1520 (V)				Gain Control	Auto/Manual
ROM		128 MB				Noise Reduction	3D DNR
RAM		512 MB				Motion Detection	OFF/ON (4 areas, rectangular)
Scanning System		Progressive				Region of Interest (RoI)	Yes (4 areas)
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100, 000 s				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
Min. Illumination		0.003 Lux@F1.0					resolution and lower.)
S/N Ratio		> 56 dB				Mirror	Yes
Pan/Tilt/Rotatio	n Range	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°)°	Privacy Masking	4 areas
Lens						Audio	
Lens Type		Fixed-focal				Audio Compression	G.711a; G.711Mu; G726
Mount Type		M12				Alarm	
Focal Length		2.8 mm; 3.6 mm					No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection;
Max. Aperture		F1.0				Alarm Event	IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene
Field of View		2.8 mm: Horizontal 103° × vertical 53° × diagonal 122° 3.6 mm: Horizontal 80° × vertical 43° × diagonal 95°					changing; input abnormal; intensity change; tripwire; intrusion; SMD
Iris Type		Fixed				Network	
Close Focus Distance		2.8 mm: 1.2 m (3.9 ft) 3.6 mm: 2.4 m (7.9 ft)				Network	RJ-45 (10/100 Base-T)
	Lens	Detect	Observe	Recognize	Identify	SDK and API	Yes
DORI Distance	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	5.6 m (18.4 ft)	Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMF SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 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)		
Professional, Intellige						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; truste execution; trusted upgrade
		Work together with Smart NVR to perform refine			refine	Laborator and Million	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone;
Intelligent Searc	h	intelligent sea videos	arch, event ext	raction and me	rging to event	Interoperability	Genetec
Video						Scene self-adaptation	Yes
Video Compress	ion	H.265; H.264; H.264H; H.264B; MJPEG (only supported				User/Host	20 (Total bandwidth: 64M.)
Viaco compression		by the sub str	,			Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Smart Codec		Smart H.265+/ Smart H.264+				Browser	IE: IE8; IE9; IE11 Chrome Firefox
Video Frame Rate		Main stream (2688 × 1520@ 1–25/30 fps) sub stream (704 × 576@ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720@ 1–25/30 fps)				Management Software	Smart PSS; DSS; DMSS
Stream Capability		3 streams				Mobile Phone	IOS; Android
2300000		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 ×			Op (1920 ×	Certification	
Resolution		1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Bit Rate Control		CBR; VBR H.264: 3 kbps–8192 kbps					UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Video Bit Rate		H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps				Port	

Audio Input

1 channel (RCA port)

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Audio Output	1 channel (RCA port)
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	< 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

Casing	Metal
Dimensions	192.7 mm × 70.5 mm × 66.4 mm (7.6"×2.8"×2.6") (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		
	PFA130-E	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:



Junction Box





PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



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



PFM900-E Integrated Mount tester



PFM114 TLC SD card

Pole Mount	Junction Mount
PFA130-E+PFA152-E	PFA130-E

Dimensions (mm[inch])





