



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) 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 S _I	pecificat	ion				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/Rotation	on Range	Pan: 0°-360°;	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 r	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 IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD
Max. Aperture		F1.0				Alarm Event	
Field of View		2.8 mm: Horizontal 103° × vertical 53° × diagonal 122° 3.6 mm: Horizontal 80° × vertical 43° × diagonal 95°					
Iris Type		Fixed	Fixed			Network	
Close Focus Distance		2.8 mm: 1.2 r 3.6 mm: 2.4 r				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; RTN 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)		Video encryption; firmware encryption; configuration
Professional, Intellige					and people)	Cyber Security	encryption; Digest; WSSE; account lockout; security log IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; truste execution; trusted upgrade
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone Genetec
		videos				Scene self-adaptation	Yes
Video		11.265 11.264				User/Host	20 (Total bandwidth: 64M.)
Video Compres	ssion	by the sub str		64B; MJPEG (on	ly supported	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
		4M (2688 × 1	4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 ×			Certification	
Resolution Rit Pate Control		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		Свк; vвк H.264: 3 kbps–8192 kbps				D 1	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Video Bit Rate		H.265: 3 kbps-8192 kbps				Port	

Audio Input

1 channel (RCA port)

Wiz Sense | DH-IPC-HFW3449E-AS-NI

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:







PFA130-E 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])





