

DH-IPC-HFW3449E-AS-LED

4MP Full-color Warm LED 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
- · Built-in Warm LED, max. LED distance: 30 m
- 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 support
- 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.



Bit Rate Control

CBR; VBR

Technical Specification						Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps	
Camera							Day/Night	Color/B/W
Image Sensor		1/2.7"4Megapixel progressive CMOS					BLC	Yes
Max. Resolution		2688 (H) ×1520 (V)				WDR	120 dB	
ROM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
RAM		512 MB					Gain Control	Auto/Manual
Scanning System		Progressive					Noise Reduction	3D DNR
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100, 000 s					Motion Detection	OFF/ON (4 areas, rectangular)
Min. Illuminatio	n	0.003 Lux@F1.0					Region of Interest (RoI)	Yes (4 areas)
S/N Ratio		> 56 dB						
Illumination Dis	tance	30 m (98.4 ft))				Smart Illumination	Yes
Illuminator On/	Off Control	Auto/Manual					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 1920×1080 resolution and lower.)
Illuminator Nun	nber	1 (warm LED)					Mirror	Yes
Pan/Tilt/Rotation	on Range	Horizontal:0°	-360°;Vertical:	0°-90°;Rotation	:0°-360°		Privacy Masking	4 areas
Lens							Audio	
Lens Type		Fixed-focal				Built-in MIC	Yes	
Mount Type		M12					Audio Compression	G.711a; G.711Mu; G726
Focal Length		2.8 mm; 3.6 mm				Alarm		
Max. Aperture		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		2.8 mm; 1.2 m /2.0 ft)						
Close Focus Dis	tance	2.8 mm: 1.2 m (3.9 ft) 3.6 mm: 2.4 m (7.9 ft)					Network	
	Lens	Detect	Observe	Recognize	Identify		Network	RJ-45 (10/100 Base-T)
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)		SDK and API	Yes
	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)		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP SMTP; FTP; SFTP; DHCP; DNS; DDNS; QOS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP
Professiona	l, Intellige	nt						
Perimeter Prote	ection	Tripwire, intrusion (Recognition of vehicle and people)						Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Video							Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by the sub stream)					Scene self-adaptation (SSA)	Yes
Smart Codec		Smart H.265+/ Smart H.264+					User/Host	20 (Total bandwidth: 64M.)
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)				Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS	
Stream Capability		3 streams					Browser	IE: IE8; IE9; IE11 Chrome Firefox
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				Management Software	Smart PSS; DSS; DMSS	
		× 240)				Mobile Phone	IOS; Android	

Certification

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

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

Port

Audio Input	1 channel (RCA port)
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	< 8.4W

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-LED	4MP Full-color Warm LED Fixed-focal Bullet WizSense Network Camera,PAL		
	DH-IPC-HFW3449EN-AS-LED	4MP Full-color Warm LED 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

BO-E PFA15

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])





