

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.



Stream Capability

3 streams

Technical Specification					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 × 240)			
Camera				Resolution				
Image Sensor	Image Sensor 1/2.7"4Megapixel progressive CMOS			Bit Rate Control	CBR; VBR			
Max. Resolution 2688 (H) ×1520 (V)			Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps				
ROM 128 MB					Day/Night	Color/B/W		
RAM 512 MB				BLC	Yes			
Scanning System Progressive				WDR	120 dB			
Electronic Shutter Speed Auto/Manual 1/3 s=1/100, 000 s						Auto/natural/street lamp/outdoor/manual/regional		
Min. Illumination 0.003 Lux@F1.0				White Balance	custom			
S/N Ratio		> 56 dB					Gain Control	Auto/Manual
Illumination Dist	ance	30 m (98.4 ft)					Noise Reduction	3D DNR
Illuminator On/C	Off Control	Auto/Manual					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator Num	ber	1 (warm LED)				Region of Interest (RoI)	Yes (4 areas)	
Pan/Tilt/Rotatio	Pan/Tilt/Rotation Range Horizontal:0°-360°; Vertical:0°-90°; Rotation:0°-360°			Smart Illumination	Yes			
Lens		5. 16. 1				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 1920×1080 resolution and lower.)	
Lens Type Fixed-focal				Mirror	Yes			
Mount Type		M12				Privacy Masking	4 areas	
Focal Length		2.8 mm; 3.6 mm				Audio		
Max. Aperture		F1.0				Built-in MIC	Yes	
Field of View		2.8 mm: Horizontal 103° × vertical 53° × diagonal 122° 3.6 mm: Horizontal 80° × vertical 43° × diagonal 95°				Audio Compression	G.711a; G.711Mu; G726	
Iris Type		Fixed				Alarm		
Close Focus Dist		2.8 mm: 1.2 m (3.9 ft) 3.6 mm: 2.4 m (7.9 ft)					No SD card; SD card full; SD card error; less service time	
	Lens	Detect	Observe	Recognize	Identify		of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security	
	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)		exception; motion detection; vic changing; input abnormal; inten	exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD
DORI Distance	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)		Network	
DORI DISTAILCE		tect, Observe, F					Network	RJ-45 (10/100 Base-T)
	video to d	76-4) for defining the ability of a person viewing the distinguish persons or objects within a covered area. bers in this table do not reflect intelligent function s. For intelligent function distances, refer to installation missioning manual/project design tool.					SDK and API	Yes
	distances.							IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP;
Professional, Intelliger						Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPOE; SNMP	
			usion (Recogni	ecognition of vehicle and people)				Video encryption; firmware encryption; configuration
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Cyber Security	encryption; Digest; WSSE; account lockout; security logs; 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;			
Video Compression		$\label{eq:h.265} \mbox{H.264; H.264H; H.264B; MJPEG} (\mbox{only supported by the sub stream})$				Scene self-adaptation	Genetec Yes	
Smart Codec		Smart H.265+/ Smart H.264+				(SSA)		
		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)				User/Host	20 (Total bandwidth: 64M.)	
Video Frame Rate						Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS	

Browser

IE: IE8; IE9; IE11 Chrome Firefox

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Management Software	Smart PSS; DSS; DMSS	
Mobile Phone	IOS; Android	
Certification		
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

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

PFA152-E Pole Mount

PFM321D DC12V1A Power Adapter



reach ethernet over

coax extender

LR1002-1ET/1EC Single-port long



PFM900-E Integrated Mount tester



PFM114 TLC SD card

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

Dimensions (mm[inch])



