

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, 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.



Max. Aperture F1.0 Alarm Event 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 Iris Type Fixed Network Close Focus Distance Lens Detect Detect Detect Descript Solution Solution Alarm Event Alarm Event Alarm Event Network Network Network RJ-45 (10/100 Base-T) SDK and API Yes DORI Distance 2.8 mm 1.2 m (3.9 ft) 3.6 mm: 2.4 m (7.9 ft) SDK and API Protocol									
Max. Resolution	Technical Sp	ecificatio	on					Day/Night	Color/B/W
Main	Camera							BLC	Yes
Mode	Image Sensor		1/2.7"4Megapixel progressive CMOS				WDR	120 dB	
RAM	Max. Resolution		2688 (H) ×1520 (V)				White Balance		
Motion Detection Software Section	ROM		128 MB					Gain Control	Auto/Manual
Electronic Shurter speed	RAM		512 MB					Noise Reduction	3D DNR
Min.	Scanning System	1	Progressive					Motion Detection	OFF/ON (4 areas, rectangular)
Since	Electronic Shutte	er Speed	Auto/Manual 1/3 s–1/100, 000 s					Region of Interest (RoI)	Yes (4 areas)
Minror M	Min. Illumination	n	0.003 Lux @ F1.0					Smart Illumination	Yes
Illumination Distance 30 m (98.4 ft) Milror Yes Illuminator On/Off Control Auro/Manual Jewam LED Pan/Till/Rotation Range Horizontal D3 ** Off. Yertical-0** 90*, Rotation 0** 360* Lens Lens Fixed focal Horizontal D3** Vertical-0** 90*, Rotation 0** 360* Lens William	S/N Ratio		> 56 dB					Image Rotation	
Illuminator On/Ort Control Auto/Manual	Illumination Dist	ance	30 m (98.4 ft)					_	·
Manual Front Manu	Illuminator On/C	Off Control	Auto/Manual						
	Illuminator Num	ber	1 (warm LED)						4 areas
Lens Type	Pan/Tilt/Rotatio	n Range	Horizontal:0°	-360°;Vertical:	0°-90°;Rotation	:0°-360°			v
Mount Type	Lens								
Focal Length 2.8 mm; 3.6 mm	Lens Type		Fixed-focal					G./11a; G./11Mu; G/26; AAC	
Max. Aperture								Alarm	
Field of View	Focal Length		2.8 mm; 3.6 mm				Alarm Event	exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire;	
Fixed			2.8 mm: Horizontal 103° × vertical 53° × diagonal 122°						
Lens	Iris Type							Network	
Lens	Close Focus Dist	ance						Network	RJ-45 (10/100 Base-T)
DORI Distance 2.8mm 56.0 m	0.000 . 0000 2.00				Recognize	Identify		SDK and API	Yes
Professional, Intelligent Perimeter Protection Tripwire, intrusion (Recognition of vehicle and people) Mork together with Smart NVR to perform refine intelligent Search Wideos Video Video Compression H.265; H.264; H.264B; MJPEG(only supported by the sub stream) Smart Codec Smart H.265+/ Smart H.264+ Video Frame Rate Main stream (2688 × 1520 @ 1–25/30 fps) sub stream (288 × 720 @ 1–25/30 fps) third stream (1280 × 720 @ 1–25/30 fps) third stream (1280 × 720 @ 1–25/30 fps) (200; 1.34 (2304 × 1296); 1080p (1920 × 1080); 1.34 (1280 × 960); 720p (1280 × 720); D1 (704 × 240); VGA (840 × 480); CIF (352 × 288/352 × 240) Notice Rate M.264: 3 kbps—8192 kbps Interoperability ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec Scene self-adaptation Yes User/Host 20 (Total bandwidth: 64M.) User/Host 20 (Total bandwidth: 64M.) IE: IE8; IE9; IE11 Chrome Firefox Management Software Smart PSS; DSS; DMSS Mobile Phone IOS; Android Certification Certification Certifications	DORI Distance	2.8mm	56.0 m (183.7 ft) 80.0 m	22.4 m (73.5 ft) 32.0 m	11.2 m (36.7 ft) 16.0 m	5.6 m (18.4 ft) 8.0 m		Protocol	RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x;
Perimeter Protection Tripwire, intrusion (Recognition of vehicle and people) Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video Video Video Compression H. 265; H. 264; H. 264H; H. 264B; MJPEG(only supported by the sub stream) Smart Codec Smart H. 265+/ Smart H. 264+ 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) Stream Capability 3 streams AM (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080p); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) Bit Rate Control Certification Scene self-adaptation Ves User/Host 20 (Total bandwidth: 64M.) Ils: IEB; IE9; IE11 Chrome Fire fox Management Software Management Software Mobile Phone IOS; Android Certification Certification Certification Certification Certifications Certifica	Duefessional						Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec	
Work together with Smart NVR to perform refine intelligent Search Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Storage FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS	•							Scene self-adaptation	Yes
Intelligent Search intelligent search, event extraction and merging to event videos Video Video Video Compression	Perimeter Protei	ction						User/Host	20 (Total bandwidth: 64M.)
Video Compression H.265; H.264; H.264B; MJPEG(only supported by the sub stream) Browser Chrome Firefox Smart Codec Smart H.265+/ Smart H.264+ Management Software Smart PSS; DSS; DMSS Video Frame Rate Main stream (2688 × 1520 @ 1–25/30 fps) sub stream (704 x 576 @ 1–25/704 x 480 @ 1-30 fps) third stream (1280 x 720 @ 1–25/30 fps) Mobile Phone IOS; Android Stream Capability 3 streams CE-LVD: EN62368-1 CE-EVD: EN62368-1 CE-EWC: 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 Bit Rate Control CBR; VBR POrt Video Rit Rate H.264: 3 kbps-8192 kbps Audio Input 1 chappel (8CA port)	Intelligent Searc	h	intelligent search, event extraction and merging to event					Storage	
Smart Codec Smart H.265+/ Smart H.264+ Management Software Smart PSS; DSS; DMSS 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) Certification Stream Capability 3 streams 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 Bit Rate Control CBR; VBR Port Video Bit Rate H.264: 3 kbps-8192 kbps Audio Input 1 chappel (RCA port)			H.265: H.264: H.264H: H.264B: MJPEG(only supported by					Browser	Chrome
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) Mobile Phone IOS; Android Stream Capability 3 streams Certification 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 × 240) Certifications Certifications Bit Rate Control CBR; VBR Port Video Bit Rate H.264: 3 kbps-8192 kbps Audio Input 1 chappel (RCA port)			the sub stream)					Management Software	
Video Frame Rate sub stream (704 × 576 @ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720 @ 1–25/30 fps) Certification Stream Capability 3 streams CE-LVD: EN62368-1	Smart Codec							Mobile Phone	IOS; Android
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 × 240) Certifications 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 Bit Rate Control CBR; VBR POrt Video Bit Rate H.264: 3 kbps-8192 kbps Audio Input 1 chappel (RCA port)	Video Frame Rate		sub stream (704 × 576 @ 1–25/704 × 480 @ 1-30 fps)					Certification	
Resolution 2014/30/EU 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) Bit Rate Control CBR; VBR Port Video Bit Rate	Stream Capability		3 streams					Certifications	
Video Rit Rate H.264: 3 kbps-8192 kbps Audio Input 1 chappel (RCA port)	Resolution		1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352				2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B		
Video Bit Rate 1 channel (PCA port)	Bit Rate Control		CBR; VBR					Port	
	Video Bit Rate		·				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	< 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 (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 Type Part Number Description 4MP Full-color Warm LED Fixed-DH-IPC-HFW3449EP-AS-LED focal Bullet WizSense Network Camera,PAL 4MP Camera 4MP Full-color Warm LED Fixed-DH-IPC-HFW3449EN-AS-LED focal Bullet WizSense Network Camera,NTSC PFA134 Junction Box PFA152-E Pole Mount PFM321D DC12V1A Power Adapter Accessories (optional) Single-port Long Reach Ethernet LR1002-1ET/1EC Over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

Accessories

Optional:







PFA134 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	Wall Mount
PFA134+PFA152-E	PFA134

Dimensions (mm[inch])





