

DH-IPC-HFW3549E-AS-LED

5MP Full-color Fixed-focal Warm LED Bullet WizSense Network Camera



Wiz Sense

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 some 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 ultralow 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.

- 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 5MP (2592 \times 1944) @20 fps, and supports 4MP (2688 \times 1520) @25/30 fps
- H.265 codec, high compression rate, low bit rate
- Built-in warm light, max. illumination 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 supply, easy for installation
- 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.

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"5Megapixel progressive CMOS					BLC	Yes
Max. Resolution		2592 (H) × 1944 (V)				HLC	Yes	
ROM		128 MB					WDR	120 dB
RAM		512 MB				Scene Self-adaptation		
Scanning System		Progressive					(SSA)	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Min. Illumination		0.003 Lux@F1.0					Gain Control	Auto/Manual
S/N Ratio		> 56 dB					Noise Reduction	3D DNR
Illumination Dist	ance	30 m (98.4 ft) (Warm light)					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/0	Off Control	Auto/Manual					Region of Interest (RoI)	Yes (4 areas)
Illuminator Num	ber	1 (Warm light	:)				Smart Illumination	Yes
Pan/Tilt/Rotatio	n Range	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Lens						Mirror	Yes	
Lens Type		Fixed-focal				Privacy Masking	4 areas	
Mount Type		M12				Audio		
Focal Length		2.8 mm; 3.6 mm					Built-in MIC	Yes
Max. Aperture		F1.0				Audio Compression	G.711a; G.711Mu; G726	
Field of View		2.8 mm: Horizontal 98° × Vertical 71° × Diagonal 129° 3.6 mm: Horizontal 77° × Vertical 56° × Diagonal 101°				Alarm		
Iris Type		Fixed					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external alarm; SMD
Close Focus Dist		2.8 mm: 1.2 m (3.9 ft) 3.6 mm: 2.4 m (7.9 ft)						
	Lens	Detect	Observe	Recognize	Identify		Network	
DORI Distance	2.8 mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	5.6 m (18.4 ft)		Network	RJ-45 (10/100 Base-T)
	3.6 mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.3 ft)		SDK and API	Yes
Professional	, Intellige					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	
IVS (Perimeter P	rotection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)						
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.					Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509
Video								certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec
Smart Codec		Smart H.265+/ Smart H.264+					User/Host	20 (Total bandwidth: 64 M)
Video Frame Rate		Main stream: 2592 × 1944 @1–20 fps 2688 × 1520 @1–25/30 fps Sub stream: 704 × 576 @1–25 fps/704 × 480 @1–30 fps					Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS IE: IE8, IE9, IE11
Stream Capability		Third stream: 1280 × 720@1–25/30 fps 3 streams					Browser	Chrome Firefox
Stream Capability		5M (2592 × 1944); 4M (2688 × 1520); 3M (2304 × 1296);					Management Software	Smart PSS; DSS; DMSS
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF				Mobile Phone	IOS; Android	
		(352 × 288/352 × 240)						

Certification

Wiz Sense | DH-IPC-HFW3549E-AS-LED

Certification	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%
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)
Ingress Protection	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 Part Number Description Type 5MP Full-color Fixed-focal Warm LED DH-IPC-HFW3549EP-AS-LED Bullet WizSense Network Camera, 5MP Camera 5MP Full-color Fixed-focal Warm LED DH-IPC-HFW3549EN-AS-LED Bullet WizSense Network Camera, NTSC PFA130-E Junction Box PFA152-E Pole Mount PFM321D 12V DC 1A Power Adapter Accessories (optional) Single-port Long Reach Ethernet over LR1002-1ET/1EC 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])





