



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 AI products and solutions that adopt independent AI 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.

System 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.

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.



Technical Sp	ecificatio	on					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	Yes
Scanning System		Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						custom
Min. Illumination		0.003 Lux @F1.0					Gain Control	Auto/Manual
S/N Ratio		>56 dB					Noise Reduction	3D DNR
Illumination Dist	tance	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 0°/00°/190°/270° (Support 00°/270° with 1000°
Pan/Tilt/Rotatio	n Range	Pan: 0°-360°	; Tilt: 0°–90°; R	otation: 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; AAC	
Field of View		2.8 mm: Horizontal 98° × Vertical 71° × Diagonal 129° 3.6 mm: Horizontal 77° × Vertical 56° × Diagonal 101°				Alarm	N 60 160 161160 1 1 1	
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
Close Focus Distance		2.8 mm: 1.2 m (3.9 ft) 3.6 mm: 2.4 m (7.9 ft)						changing; audio detection; voltage detection; external alarm; SMD
	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		ent				Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; 802.1x; SNMP	
IVS (Perimeter P	rotection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human) Work together with Smart NVR to perform refine				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec	
Intelligent Searc	Intelligent Search		intelligent search, event extraction and merging to event videos.				User/Host	20 (Total bandwidth: 64 M)
Video							Storage	FTP; SFTP; Micro SD card (support max. 256 G); Dahua Cloud; NAS
Video Compression			H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					IE: IE8, IE9, IE11
Smart Codec		Smart H.265+/ Smart H.264+					Browser	Chrome Firefox
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				Management Software	Smart PSS; DSS; DMSS	
		Third stream: 1280 × 720@1–25/30 fps				Mobile Phone	IOS; Android	
Stream Capability		3 streams				Certification		
Resolution		5M (2592 × 1944); 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)				Certification	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	
Bit Rate Control		CBR/VBR						UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

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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 Type Part Number Description 5MP Full-color Fixed-focal Warm DH-IPC-HFW3549EP-AS-LED LED Bullet WizSense Network Camera, PAL 5MP Camera 5MP Full-color Fixed-focal Warm DH-IPC-HFW3549EN-AS-LED LED Bullet WizSense Network Camera, NTSC PFA134 Junction Box PFA152-E Pole Mount PFM321D 12V DC 1A Power Adapter Accessories Single-port Long Reach Ethernet (optional) LR1002-1ET/1EC over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

Accessories

Optional:







PFA134 Junction Box

PFM321D PFA152-E DC12V1A Power Pole Mount Adapter



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])



