

DH-IPC-HFW3249E-AS-LED

2MP Full-color Warm LED 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.

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080) @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 supply
- 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.





Wiz Sense | DH-IPC-HFW3249E-AS-LED

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		1/2.8"2Megapixel progressive CMOS				BLC	Yes	
Max. Resolution		1920 (H) × 1080 (V)				WDR	120 dB	
ROM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional
RAM		512 MB					Gain Control	custom Auto/Manual
Scanning System	n	Progressive					Noise Reduction	3D DNR
Electronic Shutt	er Speed	Auto/Manual 1/3 s–1/100, 000 s					Motion Detection	OFF/ON (4 areas, rectangular)
Min. Illuminatio	n	0.0015 Lux @	F1.0				Region of Interest (RoI)	Yes (4 areas)
S/N Ratio		> 56 dB					Smart Illumination	Yes
Illumination Dis	tance	30 m (98.4 ft)						0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
Illuminator On/	Off Control	Auto/Manual					Image Rotation	resolution and lower.)
Illuminator Num	nber	1 (warm LED)					Mirror	Yes
Pan/Tilt/Rotation Range		Pan: 0°=360°:	Tilt: 0°-90°: R	otation: 0°=36	n°		Privacy Masking	4 areas
rany mity Notation Range		Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°				Audio		
Lens						Built-in MIC	Yes	
Lens Type		Fixed-focal					Audio Compression	G.711a; G.711Mu; G726; AAC
Mount Type		M12					Alarm	
Focal Length		2.8 mm; 3.6 mm					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
Max. Aperture Field of View		F1.0 2.8 mm: Horizontal 107° × vertical 55° × diagonal 127° 3.6 mm: Horizontal 84° × vertical 45° × diagonal 99°						
Iris Type		Fixed					Network	,
Close Focus Dist	tance	2.8 mm: 0.8 m (2.6 ft)					Network	RJ-45 (10/100 Base-T)
Close i ocus bist		3.6 mm: 1.7 n		Di	ld-set.		SDK and API	Yes
DORI Distance	Lens 2.8mm	38.6 m (126.6 ft)	Observe 15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)		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; PPPoE; 802.1x; SNMP
	3.6mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)		Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Professional	l, Intellige	ent				Scene self-adaptation	Yes	
Perimeter Protection		Tripwire, intrusion (Recognition of vehicle and people)					User/Host	20 (Total bandwidth: 64M.)
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
Video				Browser	IE: IE8; IE9; IE11 Chrome Firefox			
Video Compression		$\mbox{H.265; H.264; H.264H; H.264B; MJPEG} \mbox{(only supported by the sub stream)}$					Management Software	Smart PSS; DSS; DMSS
Smart Codec		Smart H.265+/ Smart H.264+					Mobile Phone	IOS; Android
Video France Del		Main stream (1920 × 1080 @ 1–25/30 fps)					Certification	
Video Frame Rate		sub stream (704 × 576 @ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720 @ 1–25/30 fps)					Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive
Stream Capability		3 streams						2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				Port	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
		CII (332 ^ 200) 332 ^ 240)						



Bit Rate Control

CBR; VBR

Audio Input

1 channel (RCA port)

Wiz Sense | DH-IPC-HFW3249E-AS-LED

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	< 8.1W

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			
Туре	Part Number	Description	
2MP Camera	DH-IPC-HFW3249EP-AS-LED	2MP Full-color Warm LED Bullet WizSense Network Camera, PAL	
	DH-IPC-HFW3249EN-AS-LED	2MP Full-color Warm LED Bullet WizSense Network Camera, NTSC	
	PFA134	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:







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])







