

# 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.



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Technical Specification				Video Bit Rate	H.264: 3 kbps-8192 kbps			
Camera				Day/Night	H.265: 3 kbps–8192 kbps 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					custom			
Scanning System	Progressive					Gain Control	Auto/Manual	
Electronic Shutter Sp	peed	Auto/Manual 1/3 s–1/100, 000 s					Noise Reduction	3D DNR
Min. Illumination		0.0015 Lux @ F1.0					Motion Detection	OFF/ON (4 areas, rectangular)
S/N Ratio		> 56 dB					Region of Interest (RoI)	Yes (4 areas)
Illumination Distance	e	30 m (98.4 ft)					Smart Illumination	Yes 0° /00° /190° /270° /5 upport 00° /270° with 1020 v 1000
Illuminator On/Off Co	Control	Auto/Manual					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1920 \times 1080$ resolution and lower.)
Illuminator Number		1 (warm LED)					Mirror	Yes
0 /7:1/0							Privacy Masking	4 areas
Pan/Tilt/Rotation Rar	ange	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						No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection;
Max. Aperture Field of View		F1.0  2.8 mm: Horizontal 107° × vertical 55° × diagonal 127°					Alarm Event	IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire;
		3.6 mm: Horizontal 84° × vertical 45° × diagonal 99°					Network	intrusion; SMD
Iris Type		Fixed					Network	RJ-45 (10/100 Base-T)
Close Focus Distance	2	2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.7 m (5.6 ft)					SDK and API	Yes
Le	ens	Detect	Observe	Recognize	Identify		SDK dilu API	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP;
DORI Distance 2.8	8mm	38.6 m (126.6 ft) 55.2 m	15.4 m (50.5 ft)	7.7 m (25.3 ft) 11.0 m	3.9 m (12.8 ft) 5.5 m		Protocol	RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; SNMP
3.6	6mm	(181.1 ft)	(72.5 ft)	(36.1 ft)	(18.0 ft)		Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Professional, Int	telliger	nt					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		H.265; H.264; H.264H; H.264B; MJPEG(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 Frame Rate		Main stream ( $1920 \times 1080 @ 1-25/30 \text{ fps}$ ) sub stream ( $704 \times 576 @ 1-25/704 \times 480 @ 1-30 \text{ fps}$ ) third stream ( $1280 \times 720 @ 1-25/30 \text{ fps}$ )					Certification  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
Bit Rate Control		CBR; VBR					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	< 8.1W

### 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 Box Pole Mount



Adapter

a



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])





