

# 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.

#### **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 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		1/2.8"2Mega	pixel progressi	ve CMOS		BLC	Yes
Max. Resolution		1920 (H) × 10	80 (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	1	Progressive					
Electronic Shutter Speed		Auto/Manual	1/3 s-1/100, 0	000 s		Noise Reduction	3D DNR
Min. Illuminatio	n	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 Dist	tance	30 m (98.4 ft)				Smart Illumination	Yes
Illuminator On/0	Off Control	Auto/Manual				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)
Illuminator Num	ber	1 (warm LED)				Mirror	Yes
Pan/Tilt/Rotation Range		Pan: 0°-360°;	Tilt: 0°–90°; R	otation: 0°–360	)°	Privacy Masking	4 areas
Lens						Audio	
Lens Type		Fixed-focal				Built-in MIC	Yes
Mount Type		M12				Audio Compression	G.711a; G.711Mu; G726
Focal Length		2.8 mm; 3.6 n	nm			Alarm	
Max. Aperture		F1.0					No SD card; SD card full; SD card error; less service time
Field of View		2.8 mm: Horizontal 107° × vertical 55° × diagonal 127° 3.6 mm: Horizontal 84° × vertical 45° × diagonal 99°				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				NI a traversila	mudalon, and
Close Focus Dist	ance	2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.7 m (5.6 ft)				Network	
	Lens	Detect	Observe	Recognize	Identify	Network	RJ-45 (10/100 Base-T)
DORI Distance	2.8mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)	SDK and API	Yes
	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)	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
Professional	, Intellige	nt					Video encryption; firmware encryption; configuration
Perimeter Protection		Tripwire, intrusion (Recognition of vehicle and people)				Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Video						Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by the sub stream)				Scene self-adaptation	Yes
Smart Codec		Smart H.265+/ Smart H.264+				User/Host	20 (Total bandwidth: 64M.)
Smart Codec						Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Video Frame Rate		Main stream (1920 × 1080 @ 1–25/30 fps) sub stream (704 × 576 @ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720 @ 1–25/30 fps)				Browser	IE: IE8; IE9; IE11 Chrome Firefox
Stream Capabilit	Stream Capability		1000)	/1206	120 /1222	Management Software	Smart PSS; DSS; DMSS
Resolution	Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480);			Mobile Phone	IOS; Android
		CIF (352 × 288/352 × 240)				Certification	

Certification

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

Certifications	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 Consumption < 8.1W	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 (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				
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		
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		

# 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])





