

DH-IPC-HFW3249E-AS-LED

2MP Full-color Warm LED Bullet WizSense Network Camera



WizSense

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.

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) 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 work normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification					
Camera					
Image Sensor		1/2.8"2Megapixel progressive CMOS			
Max. Resolution		1920 (H) × 1080 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s~1/100, 000 s			
Min. Illumination		0.0015 Lux@F1.0			
S/N Ratio		> 56 dB			
Illumination Distance		30 m (98.4 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		1 (warm LED)			
Pan/Tilt/Rotation Range		Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°			
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Aperture		F1.0			
Field of View		2.8 mm: Horizontal 107°; vertical 55°; diagonal 127° 3.6 mm: Horizontal 84°; vertical 45°; diagonal 99°			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.7 m (5.6 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	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)
	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)
Professional, Intelligent					
Perimeter Protection		Tripwire, intrusion (Recognition of vehicle and people)			
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos			
Video					
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by the sub stream)			
Smart Codec		Smart H.265+ / Smart H.264+			
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)			
Stream Capability		3 streams			
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			
Bit Rate Control		CBR; VBR			

Video Bit Rate	H.264: 3 kbps~8192 kbps H.265: 3 kbps~8192 kbps
Day/Night	Color/B/W
BLC	Yes
WDR	120 dB
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270°(Support 90°/270°with 1920 × 1080 resolution and lower.)
Mirror	Yes
Privacy Masking	4 areas

Audio	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; G726

Alarm	
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

Network	
Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
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
Cyber Security	Video encryption; firmware encryption; configuration 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
Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec
Scene self-adaptation	Yes
User/Host	20 (Total bandwidth: 64M.)
Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Browser	IE: IE8; IE9; IE11 Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android

Certification

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 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)

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



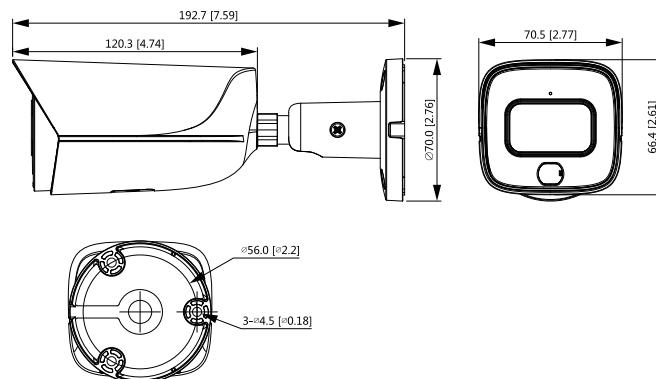
PFM900-E
Integrated Mount
tester



PFM114
TLC SD card

Pole Mount	Junction Mount
PFA130-E+PFA152-E	PFA130-E

Dimensions (mm[inch])



Ordering Information

Type	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