

# DH-IPC-HFW3549E-AS-LED

5MP Full-color Fixed-focal Warm LED Bullet WizSense Network Camera



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 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.

- $\cdot$  5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 5MP (2592 × 1944) @20 fps, and supports 4MP (2688 × 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) 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.

## Wiz Sense | DH-IPC-HFW3549E-AS-LED

### **Technical Specification**

Bit Rate Control

CBR/VBR

-					
Camera					
Image Sensor		1/2.7"5Megapixel progressive CMOS			
Max. Resolution		2592 (H) × 1944 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.003 Lux@F1.0			
S/N Ratio		> 56 dB			
Illumination Distance		30 m (98.4 ft) (Warm light)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		1 (Warm light)			
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 98° × Vertical 71° × Diagonal 129° 3.6 mm: Horizontal 77° × Vertical 56° × Diagonal 101°			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 1.2 m (3.9 ft) 3.6 mm: 2.4 m (7.9 ft)			
	Lens	Detect	Observe	Recognize	Identify
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)
	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)
Professional	, Intellige	ent			
IVS (Perimeter P	Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)			
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: 2592 × 1944 @1–20 fps 2688 × 1520 @1–25/30 fps Sub stream: 704 × 576 @1–25 fps/704 × 480 @1–30 fps Third stream: 1280 × 720@1–25/30 fps			
Stream Capability		3 streams			
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)			

Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps			
Day/Night	Color/B/W			
BLC	Yes			
HLC	Yes			
WDR	120 dB			
Scene Self-adaptation (SSA)	Yes			
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 1080p 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; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external alarm; 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			
User/Host	20 (Total bandwidth: 64 M)			
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				

### Wiz Sense | DH-IPC-HFW3549E-AS-LED

Certification	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	< 8.4W			
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)			

#### Accessories

#### **Optional:**



PFA130-E

Junction Box

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PFA152-E

Pole Mount



PFM321D DC12V1A Power Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet over In Coax Extender

PFM900-E Integrated Mount Tester





#### Dimensions (mm[inch])

#### **Ordering Information** Part Number Description Туре 5MP Full-color Fixed-focal Warm LED DH-IPC-HFW3549EP-AS-LED Bullet WizSense Network Camera, PAL 5MP Camera 5MP Full-color Fixed-focal Warm LED DH-IPC-HFW3549EN-AS-LED Bullet WizSense Network Camera, NTSC PFA130-E Junction Box PFA152-E Pole Mount PFM321D 12V DC 1A Power Adapter Accessories (optional) Single-port Long Reach Ethernet over LR1002-1ET/1EC Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card





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