



DH-IPC-HFW3549E-AS-LED

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



Wiz Sense

Launched by Dahua Technology, WizSense is a series of Al 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.

- 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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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	1/2.7"5Megapixel progressive CMOS			BLC	Yes		
Max. Resolution		2592 (H) × 1944 (V)			HLC	Yes	
ROM		128 MB			WDR	120 dB	
RAM		512 MB			Scene Self-adaptation		
Scanning Syster	m	Progressive			(SSA)	Yes	
Electronic Shut	ter Speed	Auto/Manual 1/3 s=1/100,000 s			White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Min. Illuminatio	on	0.003 Lux@F1.0			Gain Control	Auto/Manual	
S/N Ratio		> 56 dB			Noise Reduction	3D DNR	
Illumination Dis	tance	30 m (98.4 ft) (Warm light)			Motion Detection	OFF/ON (4 areas, rectangular)	
Illuminator On/	Off Control	Auto/Manual				Region of Interest (RoI)	Yes (4 areas)
Illuminator Nun	nber	1 (Warm light)			Smart Illumination	Yes	
Pan/Tilt/Rotation	on Range	Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°			Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower.)	
Lens					Mirror	Yes	
Lens Type		Fixed-focal			Privacy Masking	4 areas	
Mount Type		M12			Audio		
Focal Length		2.8 mm; 3.6 mm			Built-in MIC	Yes	
Max. Aperture		F1.0			Audio Compression	G.711a; G.711Mu; G726	
Field of View		2.8 mm: Horizontal 98° × Vertical 71° × Diagonal 129° 3.6 mm: Horizontal 77° × Vertical 56° × Diagonal 101°		Alarm			
Iris Type Close Focus Distance		Fixed 2.8 mm: 1.2 m (3.9 ft) 3.6 mm: 2.4 m (7.9 ft)			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	
	Lens	Detect	Observe	Recognize	Identify		alarm; SMD
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)	Network	
	3.6 mm	80.0 m	32.0 m	16.0 m	8.0 m	Network	RJ-45 (10/100 Base-T)
	3.6 mm	(262.5 ft)	(105.0 ft)	(52.5 ft)	(26.3 ft)	SDK and API	Yes
Professiona IVS (Perimeter F		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)			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	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.			Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509	
Video						certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)			Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec	
Smart Codec		Smart H.265+/ Smart H.264+			User/Host	20 (Total bandwidth: 64 M)	
Video Frame Rate		Main stream: 2592 × 1944 @1–20 fps 2688 × 1520 @1–25/30 fps			Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
		Sub stream: 704 × 576 @1–25 fps/704 × 480 @1–30 fps Third stream: 1280 × 720@1–25/30 fps			Browser	IE: IE8, IE9, IE11 Chrome	
Stream Capability		3 streams 5M (2592 × 1944); 4M (2688 × 1520); 3M (2304 × 1296);			Management Software	Firefox Smart PSS; DSS; DMSS	
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			Mobile Phone	IOS; Android	
Bit Rate Control		CBR/VBR			Certification	cation	

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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
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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)

Ordering Information Part Number Description Type 5MP Full-color Fixed-focal Warm LED DH-IPC-HFW3549EP-AS-LED Bullet WizSense Network Camera, 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 TLC SD Card PFM114

Accessories

Optional:







PFA130-E Junction Box

Pole Mount

DC12V1A Power Adapter



Single-port Long Reach Ethernet over

Coax Extender

LR1002-1ET/1EC



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

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

Dimensions (mm[inch])





