

DH-IPC-HFW3541E-AS

5MP IR Fixed focal 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. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

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.

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.

- 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 5MP (2592 \times 1944) @20 fps, and supports 4MP (2688 \times 1520) @25/30 fps
- · H.265 codec, high compression rate, low bit rate
- Built-in IR LED, max. IR distance: 50 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 abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Alarm: In, out; Audio: In, out; Supports max. 256 G Micro SD card, built-in Mic
- 12V DC/POE power supply
- IP67 protection
- · SMD Plus













Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

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.

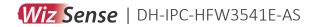
Protection (IP67, wide voltage)

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.







Resolution 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (12 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480) (352 × 288/352 × 240)	
Max. Resolution 2592 (H) ×1944 (V) ROM 128 MB RAM 512 MB Day/Night Auto(ICR)/Color/B/W BLC Yes	
ROM 128 MB RAM 512 MB Scanning System Progressive Video Bit Rate H.265: 3 Kbps-8192 Kbps BLC Yes	
ROM 128 MB RAM 512 MB Scanning System Progressive Day/Night Auto(ICR)/Color/B/W BLC Yes	
RAM 512 MB Scanning System Progressive BLC Yes	
Scanning System Progressive	
Electronic Shutter Speed Auto/Manual 1/3 s-1/100000 s HLC Yes	
Min. Illumination 0.005 Lux@F1.6 (Color, 30IRE) 0.0005 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on) White Balance Auto/natural/street lamp/outdoor/manual/regions	nal
S/N Ratio > 56 dB	
Gain Control Auto/Manual Illumination Distance 50 m (164.0 ft)	
Noise Reduction 3D DNR Illuminator On/Off Control Auto/Manual	
Motion Detection OFF/ON (4 areas, rectangular) Illuminator Number 1 (IR LED)	
Pan/Tilt/Rotation Range Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360° Pan: 0°–360° Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°	
Lens Smart Illumination Yes	
Lens Type Fixed-focal Image Rotation 0°/90°/180°/270° (Support 90°/270° with 1920 × 1 resolution and lower.)	1080
Mount Type M12 Mirror Yes	
Focal Length 2.8 mm; 3.6 mm; 6 mm Privacy Masking 4 areas	
Max. Aperture F1.6 Audio	
2.8 mm: Horizontal: 98°; vertical: 72°; diagonal: 130° Field of View 2.8 mm: Horizontal: 98°; vertical: 72°; diagonal: 130° 3.6 mm: Horizontal: 80°; vertical: 59°; diagonal: 106° Built-in MIC Yes	
6 mm: Horizontal: 50°; vertical: 36°; diagonal: 64° Audio Compression G.711a; G.711Mu; G726	
Iris Type Fixed Alarm	
2.8 mm: 0.9 m (3.0 ft) No SD card; SD card full; SD card error; less service of SD card (smart card supports); network disconners. Alarm Event Alarm Event	nnection; rity
Lens Detect Observe Recognize Identify exception; motion detection; video tampering; see changing; input abnormal; intensity change; tripwi	
2.8mm 56.0 m (22.4 m 11.2 m 5.6 m (183.7 ft) (73.5 ft) (36.8 ft) (18.4 ft) Network	
DORI Distance 80.0 m 32.0 m 16.0 m 8.0 m (262.5 ft) (105.0 ft) (52.5 ft) (26.3 ft) Network RJ-45 (10/100 Base-T)	
6mm 120.0 m 48.0 m 24.0 m 12.0 m SDK and API Yes	
(393./ π) (157.5 π) (78./ π) (39.4π)	P; RTMP
Professional, Intelligent Protocol SMTP; FTP; STP; DHCP; DNS; DDNS; QoS; UPnP; N Multicast; ICMP; IGMP; NFS; PPPOE; SNMP	NTP;
Perimeter Protection Tripwire; intrusion (Recognition of human and vehicle) Work together with Smart NVR to perform refine Video encryption; firmware encryption; configurat	
Intelligent Search intelligent search, event extraction and merging to event videos Cyber Security Cyber Security Cyber Security Cyber Security P/MAC filtering; generation and importing of X.50 certification; syslog; HTTPS; 802.1x; trusted boot; texecution; trusted upgrade	509
ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milest	stone;
Video Compression by sub stream) Scene Self-adaptation Yes	
Smart Codec Smart H.265+/ Smart H.264+ (SSA)	
Main stream (2592 × 1944@1–20 fps) (2688 × 1520@1–25/30 fps) 20 (Total bandwidth: 64 M)	
video Frame Rate sub stream(704 × 576@1–25 fps/704 × 480@1–30 fps) Storage FTP; SFTP; Micro SD Card (support max. 256 G); N.	NAS
Stream Capability Streams 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 (802.3af)	
Power Consumption	< 5.4W	

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 (1.3lb)
Gross Weight	780 g (1.7lb)

Ordering Information		
Туре	Part Number	Description
5MP Camera	DH-IPC-HFW3541EP-AS	5MP IR Fixed focal Bullet WizSense Network Camera,PAL
	DH-IPC-HFW3541EN-AS	5MP IR Fixed focal Bullet WizSense Network Camera,NTSC
	PFA130-E	Junction Box
Accessories (optional)	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



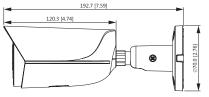
PFM900-E Integrated Mount tester



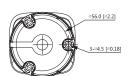
PFM114 TLC SD card

Pole Mount	Junction Box
PFA130-E+PFA152-E	PFA130-E
	033

Dimensions (mm[inch])







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