

DH-IPC-HFW3241E-AS

2MP 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.

- 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 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.



Technical Specification	n			Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Camera				Resolution	(352 × 288/352 × 240)
Image Sensor	1/2.8"2Megapixel progressive CMOS			Bit Rate Control	CBR/VBR
Max. Resolution	1920 (H) ×1080 (V)			Video Bit Rate	H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps
ROM	128 MB			Day/Night	ICR auto switch
RAM	256 MB			BLC	Yes
Scanning System	Progressive			HLC	Yes
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100	000 s		WDR	120 dB
Min. Illumination	0.002 Lux@F1.6 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)			White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
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)			Region of Interest(RoI)	Yes (4 areas)
Pan/Tilt/Rotation Range	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°			Smart Illumination	Yes
Lens				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 1920×1080 resolution and lower.)
Lens Type	Fixed-focal			Mirror	Yes
Mount Type	M12			Privacy Masking	4 areas
Focal Length	2.8 mm; 3.6 mm; 6 mm			Audio	
Max. Aperture	F1.6			Built-in MIC	Yes
2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126° 3.6 mm: Horizontal:87°; vertical: 46°; diagonal: 104° 6 mm: Horizontal:54°; vertical: 29°; diagonal: 63°			gonal: 104°	Audio Compression	G.711a; G.711Mu; G726
	Fixed			Alarm	
2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft) 6 mm: 2.5 m (8.2 ft)				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;
Lens	Detect Observe	Recognize	Identify 3.9 m		intrusion; SMD
2.8mm	38.6 m 15.4 m (126.6 ft) (50.5 ft)	7.7 m (25.3 ft)	(12.8 ft)	Network	
DORI Distance 3.6mm	55.2 m 22.1 m (181.1 ft) (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)	Network	RJ-45 (10/100 Base-T)
6mm	82.8 m 33.1 m	16.6 m	8.3 m	SDK and API	Yes
Professional, Intelligen	(271.7 ft) (108.6 ft)	(54.5 ft)	(27.2 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
Perimeter Protection	Tripwire; intrusion (Recog	nition of human	and vehicle)		Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;
Work together with Smart NVR to perform refine intelligent Search intelligent search, event extraction and merging to event videos			Cyber Security	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
Video Compression H.265; H.264; H.264H; H.264B; MJPEG(only supported			y supported	Scene Self-adaptation (SSA)	Yes
by sub stream)			User/Host	20 (Total bandwidth: 64 M)	
Smart Codec Smart H.265+/ Smart H.264+				Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
$\label{eq:Walls} \begin{tabular}{lll} Main stream & (1920 \times 1080@1-25/30 fps) \\ Video Frame Rate & sub stream & (704 \times 576@1-25 fps/704 \times 480@1-30 fps) \\ third stream & (1280 \times 720@1-25/30 fps) \\ \end{tabular}$		30@1–30 fps)	Browser	IE: IE8, IE9, IE11 Chrome Firefox	
Stream Capability 3 streams				Management Software	Smart PSS, DSS, DMSS

Wiz Sense | DH-IPC-HFW3241E-AS

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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	< 5.2W		
Environment			

Structure

Operating Conditions

Storage Conditions

Protection Grade

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)

-40°C to +60°C (-40°F to +140°F)/less than 95%

-40°C to +60°C (-40°F to +140°F)

Ordering Information					
Туре	Part Number	Description			
2MP Camera	DH-IPC-HFW3241EP-AS	2MP IR Fixed focal Bullet WizSense Network Camera,PAL			
	DH-IPC-HFW3241EN-AS	2MP IR Fixed focal 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 Box	
PFA130-E+PFA152-E	PFA130-E	

Dimensions (mm[inch])





