

DH-IPC-HFW3241E-SA

2MP IR Fixed focal Bullet WizSense Network Camera



Wiz Sense

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. 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 detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 G Micro SD card, built-in Mic
- \cdot 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.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

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.



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Technical Specification

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Camera					
Image Sensor		1/2.8"2Megapixel progressive CMOS			
Max. Resolution		1920 (H) ×1080 (V)			
ROM		128 MB			
RAM		256 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.002 Lux@F1.6			
S/N Ratio		> 56 dB			
Illumination Distance		50 m (164.0 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		1 (IR 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; 6 mm			
Max. Aperture		F1.6			
Field of View		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°			
Iris Type		Fixed			
Close Focus Distance		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)			
	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)
DORI Distance	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)
	6mm	82.8 m (271.7 ft)	33.1 m (108.6 ft)	16.6 m (54.5 ft)	8.3 m (27.2 ft)
Professional, Intellige		ent			
Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)			
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 sub stream)			
Smart Codec		Smart H.265+/ Smart H.264+			
		Main stream (1920 × 1080@1-25/30 fps)			

Smart codec	Smarth.2037 Smarth.2041
Video Frame Rate	Main stream (1920 × 1080@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	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 ControlCBR/VBRVideo Bit RateH.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 KbpsDay/NightAuto(ICR)/Color/B/WBLCYesHLCYesWDR120 dBWhite BalanceAuto/natural/street lamp/outdoor/manual/regional customGain ControlAuto/ManualNoise Reduction3D DNRMotion DetectionOFF/ON (4 areas, rectangular)Region of Interest(Rol)YesImage RotationYesImage RotationYesPrivacy Masking4 areasAudioYesAudio CompressionG.711a; G.711Mu; G726; AACAlarm EventNo SD Card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnector priconj; network disconnector grigorit meterstry, service time of SD card (smart card supports); network disconnector grigorit meterstry, service time of SD card (smart card supports); network disconnector grigorit meterstry, intrusion; SMDNetworkKetwork
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Alarm Event of SD card (smart card supports); network disconnection IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; intensity change; tripwire; intrusion; SMD Network
Network RJ-45 (10/100 Base-T)
SDK and API Yes
IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP; Protocol RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP; Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP
Interoperability ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Scene Self-adaptation Yes
User/Host 20 (Total bandwidth: 64 M)
Storage FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
IE: IE8, IE9, IE11 Browser Chrome Firefox
Management Software Smart PSS, DSS, DMSS
Mobile Phone IOS; Android
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

Wiz Sense | DH-IPC-HFW3241E-SA

Power

Power Supply	12V DC/PoE (802.3af)	
Power Consumption	< 5.2W	
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 (632.2" × 231.3" × 217.8") (L × W × H)	
Net Weight	590 g (1.3lb)	
Gross Weight	780 g (1.7lb)	

Ordering Information

Туре	Part Number	Description	
2MP Camera	DH-IPC-HFW3241EP-SA	2MP IR Fixed focal Bullet WizSense Network Camera,PAL	
	DH-IPC-HFW3241EN-SA	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



LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFA152-E Pole Mount



PFM900-E Integrated Mount tester

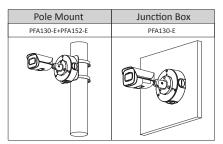


PFM321D DC12V1A Power Adapter

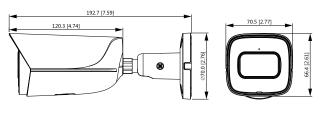


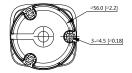
PFM114 TLC SD card

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Dimensions (mm[inch])











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