

DH-IPC-HDW3241EM-AS-B

2MP IR Fixed focal Eyeball 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) 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
- 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.



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Technical Specification

Camera					
Image Sensor		1/2.8" 2Megapixel progressive CMOS			
Max. Resolution		1920 (H) ×1080 (V)			
		128 MB			
ROM					
RAM		256 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s 0.002 Lux@F1.6 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)			
S/N Ratio		> 56 dB			
Illumination Distance		50 m (164.0 ft)			
Illuminator On/0	Off Control	Auto/Manual			
Illuminator Num	ıber	2 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–78°; 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			

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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+		
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 Control	CBR/VBR	
Video Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps	
Day/Night	Auto(ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	
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 1920 \times 1080 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; 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; intensity change; tripwire; intrusion; 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	
Scene Self-adaptation (SSA)	Yes	
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	

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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			
Power				
Power Supply	12V DC/PoE (802.3af)			
Power Consumption	<7.7W			
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	Inner core: Metal Cover: Metal Decoration ring: Metal			
Dimensions	99.1 mm × Φ121.9 mm (3.9" × Φ4.8")			
Net Weight	480 g (1.05 lb)			
Gross Weight	660 g (1.45 lb)			

Accessories

Optional:



PFA130-E

Junction Box

PFM321D

DC12V1A Power

Adapter

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PFM114 TLC SD card



PFB204W

Wall Mount

LR1002-1ET/1EC

Single-port long

reach ethernet over

coax extender



PFA152-E Pole Mount



PFM900-E Integrated Mount tester

Junction Mount	Wall Mount	Pole Mount
PFA130-E-B	PFB204W-B	PFB152-E-B+PFA204W-B

Ordering Information

Туре	Part Number	Description	
2MP Camera	DH-IPC-HDW3241EMP-AS-B	2MP IR Fixed focal Eyeball WizSense Network Camera,PAL	
	DH-IPC-HDW3241EMN-AS-B	2MP IR Fixed focal Eyeball WizSense Network Camera,NTSC	
Accessories (optional)	PFA130-E-B	Junction Box	
	PFB204W-B	Wall mount	
	PFA152-E-B	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	

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