

DH-IPC-HDW3841EM-AS-B

8MP IR Fixed focal Eyeball 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) are largely reduced.

- 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (3840×2160) @20 fps (Al function enabled by default) and supports 8MP (3840×2160) @25/30 fps (when Al function disabled)
- H.265 codec, high compression rate, low bit rate
- · Built-in IR LED, max. IR 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, and 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.



Stream Capability

3 streams

Technical Specification						Video Frame Rate Resolution	Main stream: 3840 × 2160 @(1–20 fps by default) 3840 × 2160 @(1–25/30 fps when AI function disabled) sub stream: 704 × 576 @(1–25 fps)/704 × 480 @ (1–30 fps) third stream: 1920 × 1080 @(1–25/30 fps) 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Camera								
Image Sensor		1/2.8"8Megapixel progressive CMOS						
Max. Resolution		3840 (H) × 2160 (V)						
ROM		128 MB						
RAM		512 MB						
Scanning System		Progressive				Bit Rate Control	CBR/VBR	
Electronic Shutter Speed		Auto/Manual	1/3 s-1/100,0	00 s			Video Bit Rate	H.264: 3 kbps–8192 kbps
Min. Illuminatio	on		1.4 (Color, 30IR F1.4 (B/W, 30IR ator on)				Day/Night	H.265: 3 kbps-8192 kbps Auto (ICR)/Color/B/W
S/N Ratio		> 56 dB	,				BLC	Yes
							HLC	Yes
Illumination Dis		30 m (98.4 ft)						
Illuminator On/	Off Control	Auto/Manual					WDR	120 dB
Illuminator Nun	nber	2 (IR LED)					Scene Self-adaptation (SSA)	Yes
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
		Rotation: 0 –360				Gain Control	Auto/Manual	
Lens						Noise Reduction	3D DNR	
Lens Type		Fixed-focal				Motion Detection	OFF/ON (4 areas, rectangular)	
Mount Type		M12				Region of Interest (RoI)	Yes (4 areas)	
Focal Length		2.8 mm; 3.6 mm				Smart Illumination	Yes	
Max. Aperture		F1.4				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)	
Field of View		2.8 mm: Horizontal 108° × Vertical 58° × Diagonal 127° 3.6 mm: Horizontal 85° × Vertical 45° × Diagonal 100°				Mirror	Yes	
Iris Type		Fixed				Privacy Masking	4 areas	
Close Focus Distance		2.8 mm: 1.4 m (4.6 ft) 3.6 mm: 2.4 m (7.9 ft)				Audio		
Electronic Shutt	er Speed	Auto/Manual 1/3 s–1/100,000 s				Built-in MIC	Yes	
	Lens	Detect	Observe	Recognize	Identify		Audio Compression	G.711a; G.711Mu; G726
	2.0	85.5 m	34.2 m	17.1 m	8.6 m		Alarm	
DORI Distance	2.8 mm	(280.5 ft)	(112.2 ft)	(56.1 ft)	(28.2 ft)			No SD card; SD card full; SD card error; service life
	3.6 mm	110.3 m (361.9 ft)	44.1 m (144.7 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)		Alarm Event	warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion
Professional, intelligent		nt				Aldrii Evelit	detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; SMD; safety exception	
Perimeter Protection		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)				Network		
		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.				Network	RJ-45 (10/100 Base-T)	
Intelligent Search						SDK and API	Yes	
Video		waters.				Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509	
Smart Codec		Smart H.265+/ Smart H.264+					certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	



Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec			
User/Host	20 (Total bandwidth: 72 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			
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			
Devices				

Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic power consumption: 2.6W (12V DC); 3.3W (PoE) Max. power consumption (WDR + H.265 + IR LED intensity): 6.9W (12V DC); 7.9W (PoE)

Environment

Operating Conditions	-40° C to +60°C (-40° F to +140°F)/Less than 95% RH
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67

Structure

Casing	Metal
Dimensions	02.6 01.06 (2.71 04.211)
Dimensions	93.6 mm × Φ106 mm (3.7" × Φ4.2")
Not Moinh	530 g (1.1 lb)
Net Weight	330 g (1.1 lb)
Cuasa Maiaht	800 g (1.7 lb)
Gross Weight	800 g (1.7 lb)

Ordering Information			
Туре	Model	Description	
	DH-IPC-HDW3841EMP-AS-B	8MP IR Fixed focal Eyeball WizSense Network Camera, PAL	
8MP	DH-IPC-HDW3841EMN-AS-B	8MP IR Fixed focal Eyeball WizSense Network Camera, NTSC	
Camera	IPC-HDW3841EMP-AS-B	8MP IR Fixed focal Eyeball WizSense Network Camera, PAL	
	IPC-HDW3841EMN-AS-B	8MP IR Fixed focal Eyeball WizSense Network Camera, NTSC	

	PFA130-E	Junction Box
	PFB204W	Wall Mount
	PFA152-E	Pole Mount
	PFA106	Mount Adapter
Accessories	PFB220C	Celling Mount
(optional)	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



PFA106 PFE Mount Adapter Cellin



PFB220C Celling Mount



PFM900-E Integrated Mount Tester



PFA152-E Pole Mount

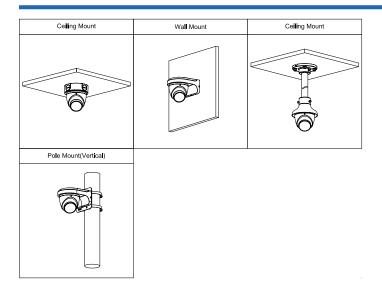


PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card

Wiz Sense | DH-IPC-HDW3841EM-AS



Dimensions (mm[inch])

