



DH-IPC-HDW3841EM-AS

8MP IR Fixed focal Eyeball WizSense Network Camera



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.

- 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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Sr	ocification	nn .						Main stream:	
Technical Specification Camera				Video Frame Rate	$3840 \times 2160 @ (1-20 \text{ fps by default})$ $3840 \times 2160 @ (1-25/30 \text{ fps when Al function disabled})$ sub stream:				
Image Sensor		1/2.8"8Megapixel progressive CMOS						704 × 576 @(1–25 fps)/704 × 480 @ (1–30 fps) third stream: 1920 × 1080 @(1–25/30 fps)	
Max. Resolution		3840 (H) × 2160 (V)					Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×	
ROM		128 MB						1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 ×	
RAM		512 MB						960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Scanning System		Progressive					Bit Rate Control	CBR/VBR	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Video Bit Rate	H.264: 3 kbps-8192 kbps		
Min. Illumination		0.007 Lux@F1.4 (Color, 30IRE) 0.0007 Lux@F1.4 (B/W, 30IRE) 0 Lux (Illuminator on)					Day/Night	H.265: 3 kbps-8192 kbps Auto (ICR)/Color/B/W	
S/N Ratio		> 56 dB					BLC	Yes	
Illumination Dis	tance	30 m (98.4 ft))				HLC	Yes	
Illuminator On/	Off Control	Auto/Manual				WDR	120 dB		
Illuminator Num	nber	2 (IR LED)					Scene Self-adaptation (SSA)	Yes	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°				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 2.8 mm: Horizontal 108° × Vertical 58° × Diagonal 127°				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)		
Field of View		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	
DORI Distance	2.8 mm	85.5 m	34.2 m	17.1 m	8.6 m		Alarm		
	3.6 mm	(280.5 ft) 110.3 m (361.9 ft)	(112.2 ft) 44.1 m (144.7 ft)	(56.1 ft) 22.1 m (72.5 ft)	(28.2 ft) 11.0 m (36.1 ft)		Alarm Event	No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene	
Professional	l, intellige	nt						changing; audio detection; voltage detection; SMD; safety exception	
Perimeter Protection		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)				Network			
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.					Network	RJ-45 (10/100 Base-T)	
							SDK and API	Yes	
Video						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		
Stream Capability		3 streams							



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		
Power			

Р	O	W	e	r
Ρ	O	W	e	r

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 $+60^{\circ}$ C (-40° F to $+140^{\circ}$ F)/Less than 95% RH
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67

Structure

Casing	Metal
Dimensions	93.6 mm × Φ106 mm (3.7" × Φ4.2")
Net Weight	530 g (1.1 lb)
Gross Weight	800 g (1.7 lb)

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

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







PFA106 Mount Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFB204W Wall Mount



PFB220C Celling Mount



PFM900-E Integrated Mount Tester



PFA152-E Pole Mount

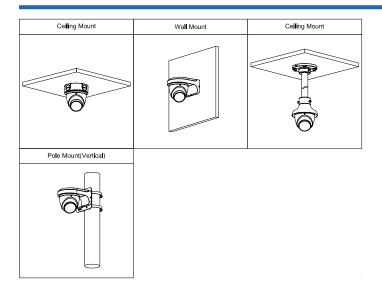


PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card

Wiz Sense | DH-IPC-HDW3841EM-AS



Dimensions (mm[inch])

