



DH-IPC-HDW3441EM-AS

4MP 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.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520) @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.



Technical Specification							Resolution	4M (2688 × 1520); 3M (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		1/3" 4Megapixel progressive CMOS					Bit Rate Control	CBR/VBR
Max. Resolution		2688 (H) ×1520 (V)					Video Bit Rate	H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps
ROM		128 MB					Day/Night	Auto(ICR)/Color/B/W
RAM		512 MB					BLC	Yes
Scanning System		Progressive					HLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s					WDR	120 dB
Min. Illumination		0.005 Lux@F1.6 (Color, 30IRE) 0.0005 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/	Illuminator On/Off Control						Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator Nun	nber	2 (IR LED)					Region of Interest(RoI)	Yes (4 areas)
Pan/Tilt/Rotation Range		Pan: 0°–360°; Tilt: 0°–78°; Rotation: 0°–360°					Smart Illumination	Yes
Lens		, , , , , , , , , , , , , , , , , , , ,					Image Rotation	0°/90°/180°/270° (Support 90°/270° 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
Field of View		2.8 mm: Horizontal:103°; vertical: 55°; diagonal: 122° 3.6 mm: Horizontal:84°; vertical: 45°; diagonal: 100°					Audio Compression	G.711a; G.711Mu; G726
				cal: 28°; diagor			Alarm	, ,
Iris Type		Fixed					Aldilli	No SD card; SD card full; SD card error; less service time
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.3 ft) 6 mm: 3.2 m (10.5 ft)					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
	Lens	Detect	Observe		Identify		Network	
	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.8 ft)	5.6 m (18.4 ft)		Network	RJ-45 (10/100 Base-T)
DORI Distance	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.3 ft)		SDK and API	Yes
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4 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
Professiona	l, Intellige	ent						Video encryption; firmware encryption; configuration
Perimeter Prote	ection	Tripwire; intrusion (Recognition of human and vehicle)					Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos						certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade ONVIF(Profile S/Profile G/ProfileT); CGI; P2P; Milestone;
Video							Interoperability	Genetec
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported					Scene Self-adaptation (SSA)	Yes
		by sub stream)					User/Host	20 (Total bandwidth: 64M)
Smart Codec		Smart H.265+/ Smart H.264+					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Video Frame Rate		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)					Browser	IE: IE8, IE9, IE11 Chrome Firefox
Stream Capability		3 streams					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)	

Ordering Information						
Туре	Part Number	Description				
4MP Camera	DH-IPC-HDW3441EMP-AS	4MP IR Fixed focal Eyeball WizSense Network Camera,PAL				
	DH-IPC-HDW3441EMN-AS	4MP IR Fixed focal Eyeball WizSense Network Camera,NTSC				
	PFA130-E	Junction Box				
	PFB203W	Wall mount				
	PFA152-E	Pole mount				
Accessories	PFM321D	DC12V1A Power adapter				
(optional)	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

D-E PFE Box Wal

PFB203W Wall Mount

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

Junction Mount	Wall Mount	Pole Mount
PFA130-E	PFB203W	PFA152-E+PFB203W