

DH-IPC-HFW3441M-AS-I2

4MP IR Fixed focal Bullet 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, fast moving, parking detection, loitering detection and gathering detection) 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: 80 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
- Alarm: 2 in, 2 out; Audio: In, out; supports max. 256 G Micro SD
- 12V DC/PoE power supply, 12V power output, max. current 165mA
- 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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification							Stream Capability	3 streams
Camera								4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704
Image Sensor		1/3" 4Megapixel progressive CMOS					Resolution	× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Resolution		2688 (H) ×1520 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB					Video Bit Rate	H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps
RAM		512 MB					Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive					BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					HLC	Yes
Min. Illumination		0.005 Lux@F1.6					WDR	120 dB
S/N Ratio	S/N Ratio		> 56 dB				White Balance	Auto/natural/street lamp/outdoor/manual/regional
Illumination Dist	Illumination Distance		80 m (262.5 ft)				Gain Control	custom Auto/Manual
Illuminator On/C	Off Control	Auto/Manual					Noise Reduction	3D DNR
IR LEDs Number	IR LEDs Number		2 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
Lens							Region of Interest(RoI)	Yes (4 areas)
Lens Type		Fixed-focal					Smart Illumination	Yes
Mount Type		M12						0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
Focal Length		3.6 mm; 6 mm; 8 mm; 12 mm					Image Rotation	resolution and lower.)
Max. Aperture		3.6 mm, 6 mm, 8 mm: F1.6 12 mm: F2.0					Mirror	Yes
Field of View				tical: 45°; diag			Privacy Masking	4 areas
		6 mm: Horizontal: 52°; vertical: 28°; diagonal: 61° 8 mm: Horizontal: 40°; vertical: 23°; diagonal: 45° 12 mm: Horizontal: 24°; vertical: 14°; diagonal: 29°					Audio	
			ontai. 24 , vei	tical. 14 , diag	onai. 23		Audio Compression	G.711a; G.711Mu; G726; AAC
Iris Type		Fixed					Alarm	
Close Focus Distance		3.6 mm: 1.6 m (5.2 ft) 6 mm: 3.2 m (10.5 ft) 8 mm: 4.5 m (14.8 ft) 12 mm: 10.3 m (33.8 ft)					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
	Lens	Detect	Observe	Recognize	Identify		changing; input abnormal; intensity change; tripwir intrusion; SMD	changing; input abnormal; intensity change; tripwire; intrusion; SMD
	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)		Network	
DORI Distance	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4ft)		Network	RJ-45 (10/100 Base-T)
	8 mm	160.0 m	64.0 m	32.0 m	16.0 m		SDK and API	Yes
	12 mm	(524.9 ft) 240 m (787.4 ft)	(210.0 ft) 96 m (315.0 ft)	(105.0 ft) 48 m (157.5 ft)	(52.5 ft) 24 m (78.7 ft)		Protocol	IPv4;IPv6;HTTP;HTTPs;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;Qo5;UPnP;NTP; Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP
Professional, Intellige							Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Perimeter Protec	ction	Tripwire; intrusion (Recognition of human and vehicle)					Scene Self-adaptation	Yes
			r with Smart N	IVR to perform	refine		User/Host	20 (Total bandwidth: 64 M)
Intelligent Search		intelligent search, event extraction and merging to event videos					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
Video							Barrier	IE: IE8, IE9, IE11
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					Browser	Chrome Firefox
Smart Codec		Smart H.265+	Smart H.265+/ Smart H.264+				Management Software	Smart PSS, DSS, DMSS
Video Frame Rate		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps)					Mobile Phone	IOS; Android
video i i dille nate		third stream (1280 × 720@1–25/30 fps)					Certification	

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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	
Port		
Audio Input	1-channel (RCA port)	
Audio Output	1-channel (RCA port)	
Alarm Input	2 channels in: 5mA 3V–5V DC	
Alarm Output	2 channels out: 300mA 12V DC	
Power		
Power Supply	12V DC/PoE (802.3af)	
Power Consumption	<11.6W	
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 + Plastic	
Dimensions	194.4 mm × 96.6 mm × 89.5 mm (7.7" × 3.8" × 3.5") (L × W × H)	
Net Weight	755g (1.7 lb)	
Gross Weight	875g (1.9 lb)	

Ordering Information					
Туре	Part Number	Description			
4MP Camera	DH-IPC-HFW3441MP-AS-I2	4MP IR Fixed focal Bullet WizSense Network Camera, PAL			
	DH-IPC-HFW3441MN-AS-I2	4MP IR Fixed focal Bullet WizSense Network Camera, NTSC			
	PFB110W	Celling Mount			
	PFB121W	Wall Mount			
Accessories	PFM321D	DC12V1A Power adapter			
(optional)	LR1002-1ET/1EC	Single-port long reach ethernet over coax extender			
	PFM907	Integrated mount tester			
	PFM114	TLC SD card			

Accessories

Optional:







PFB110W Celling Mount

PFB121W Wall Mount

PFM321D DC12V1A Power Adapter



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



PFM907 Integrated Mount tester



PFM114 TLC SD card

Ceiling Mount	Wall Mount	
PFB110W	PFB121W	

Dimensions (mm[inch])





