

DH-IPC-HFW3441M-AS-SFC-I2

4MP Anti-oil IR Fixed focal Bullet 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.

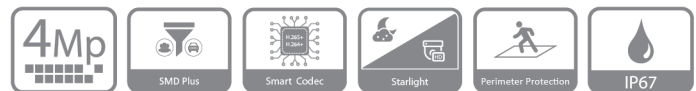
Smart H.265+ & Smart H.264+

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.

- 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
- Alarm: 2 in, 2 out; Audio: In, out; supports max. 256 G Micro SD card
- 12V DC/PoE power supply, 12V power output, max. current 165mA
- IP67 protection
- SMD Plus
- With anti-oil feature on front glass, it supports quick detachment for washing.



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

Camera

Image Sensor	1/3" 4Megapixel progressive CMOS
Max. Resolution	2688 (H) x1520 (V)
ROM	128 MB
RAM	512 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100000 s
Min. Illumination	0.005 Lux@F1.6 (Color, 30IRE) 0.0005 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	50m (164.0ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	2 (IR LED)

Lens

Lens Type	Fixed-focal				
Mount Type	M12				
Focal Length	3.6 mm; 6 mm; 8 mm				
Max. Aperture	F1.6				
Field of View	3.6 mm: Horizontal: 84°; vertical: 45°; diagonal: 100° 6 mm: Horizontal: 52°; vertical: 28°; diagonal: 61° 8 mm: Horizontal: 40°; vertical: 23°; diagonal: 45°				
Iris Type	Fixed				
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)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	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)
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4ft)
	8 mm	160.0 m (524.9 ft)	64.0 m (210.0 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)

Professional, Intelligent

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

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 (2688 x 1520@1-25/30 fps) sub stream (704 x 576@1-25 fps/704 x 480@1-30 fps) third stream (1280 x 720@1-25/30 fps)
Stream Capability	3 streams

Resolution	4M (2688 x 1520); 3M (2304 x 1296); 1080p (1920 x 1080); 1.3M (1280 x 960); 720p (1280 x 720); D1 (704 x 576/704 x 480); VGA (640 x 480); CIF (352 x 288/352 x 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(Rol)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 x 1080 resolution and lower.)
Mirror	Yes
Privacy Masking	4 areas

Audio

Audio Compression	G.711a; G.711Mu; G726
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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; input abnormal; intensity change; tripwire; intrusion; SMD
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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
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
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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

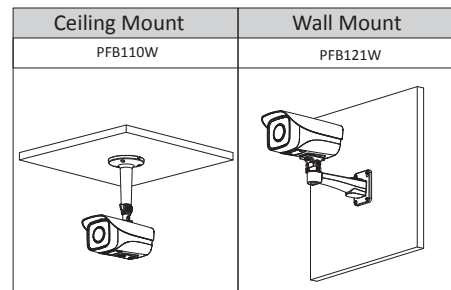
Casing	Metal + Plastic
Dimensions	194.4 mm × 96.6 mm × 89.5 mm (7.7" × 3.8" × 3.5") (L × W × H)
Net Weight	755g (1.7 lb)
Gross Weight	875g (1.9 lb)

Ordering Information

Type	Part Number	Description
4MP Camera	DH-IPC-HFW3441MP-AS-SFC-I2	4MP Anti-oil IR Fixed focal Bullet WizSense Network Camera, PAL
	DH-IPC-HFW3441MN-AS-SFC-I2	4MP Anti-oil IR Fixed focal Bullet WizSense Network Camera, NTSC
Accessories (optional)	PFB110W	Ceiling 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

Accessories

Optional:



Dimensions (mm[inch])

