

# 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) 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 card
- 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.

# **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 Sp	ecification	on					Stream Capability	3 streams
Camera							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
Image Sensor		1/3" 4Megapixel progressive CMOS						× 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	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. Illuminatio	Min. Illumination		0.005 Lux@F1.6 (Color, 30IRE) 0.0005 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)				WDR	120 dB
S/N Ratio		> 56 dB					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illumination Dis	tance	80 m (262.5 ft)					Gain Control	Auto/Manual
Illuminator On/0	Off Control						Noise Reduction	3D DNR
IR LEDs Number							Motion Detection	OFF/ON (4 areas, rectangular)
Lens		2 (IR LED)					Region of Interest(RoI)	Yes (4 areas)
Lens Type		Fixed-focal					Smart Illumination	Yes
Mount Type		M12					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1920 \times 1080$ resolution and lower.)
Focal Length		3.6 mm; 6 mm; 8 mm; 12 mm					Mirror	Yes
Max. Aperture		3.6 mm, 6 mm, 8 mm: F1.6 12 mm: F2.0					Privacy Masking	4 areas
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°					Audio	274 2744 274
		12 mm: Horiz	ontal: 24°; ver	tical: 14°; diago	onal: 29°		Audio Compression	G.711a; G.711Mu; G726
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 changing; input abnormal; intensity change; tripwire;
	Lens	Detect	Observe	Recognize	Identify			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	48.0 m	24.0 m	12.0 m		Network	RJ-45 (10/100 Base-T)
DOM Distance		(393.7 ft) 160.0 m	(157.5 ft) 64.0 m	(78.7 ft) 32.0 m	(39.4ft) 16.0 m		SDK and API	Yes
	8 mm	(524.9 ft) 240 m	(210.0 ft) 96 m	(105.0 ft)	(52.5 ft)		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMF SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;
		(787.4 ft)	(315.0 ft)	(157.5 ft)	(78.7 ft)			Multicast; ICMP; IGMP; NFS; PPPoE; SNMP
Professional Perimeter Prote	_	Tripwire; intrusion (Recognition of human and vehicle)					Cyber Security	Video encryption; firmware encryption; configuration 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						certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
,		videos					Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec
Video		H 265, H 264, H 264H, H 264B, MIDFO/anh, annuart					Scene Self-adaptation (SSA)	Yes
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					User/Host	20 (Total bandwidth: 64 M)
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

# Wiz Sense | DH-IPC-HFW3441M-AS-I2

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	
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		
Accessories (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])





