

# DH-IPC-HFW3241DF-AS-4G

2MP IR Fixed focal Bullet WizSense 4G 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**

#### 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.

### SMD

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.

### 4G

With a built-in high-performance 4G mobile network module, the camera can be directly registered to cloud platforms after a 4G SIM card has been inserted into it. It can be installed anywhere without the hassle of network cables. Users can perform real-time monitoring and remote control of the camera from a mobile client through 4G network.

- 2MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2MP (1920 × 1080)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 50 m.
- ROI, SMART H.264+/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, 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, privacy masking, no SD card,
   SD card full, SD card error, network disconnection, IP conflict, and illegal
   access
- Support low power push alarm function; support the intergration of solar energy.
- Support the camera to get the power information through 485 link, and OSD overlay display.
- Alarm: 2 in,2 out; audio: 1 in, 1 out; 1 RS-485; supports max. 256 G
   Micro SD card.
- 12 VDC power supply.
- IP67 protection.
- SMD 3.0.













#### WDF

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  $\pm 30\%$  (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

### **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.



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Technical	l Specification	on				Video	
Camera				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)		
Image Sensor		1/2.8" CMOS				Smart Codec	Smart H.265+; Smart H.264+
Effective Pixels		1920 (H) × 1080 (V)				Al Coding	Al Coding Al H.265; Al H.264
ROM		128 MB					Main stream: 1920 × 1080@(1 fps-30 fps)
RAM		512 MB					Sub stream: $704 \times 576@(1 \text{ fps}-25 \text{ fps})/704 \times 480@(1 \text{ fps}-30 \text{ fps})$ Third stream: $1920 \times 1080@(1 \text{ fps}-30 \text{ fps})$ *The values above are the max. frame rates of each stream; for
Scanning System		Progressive				Video Frame Rate	
Electronic Sh	nutter Speed	Auto/Manual 1/3 s–1/100,000 s					multiple streams, the values will be subjected to the total encoding capacity.
Min. Illumination		0.002 Lux@F1.6(Color,30IRE) 0.0002 Lux@F1.6(B/W,30IRE) 0 lux (Illuminator on)				Stream Capability	3 streams  1080p (1920 × 1080); 1.3M (1280 × 960); 720P (1280
S/N Ratio		> 56 dB				Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288)
Illumination	Distance	50 m (273 ft)	(IR)			Bit Rate Control	CBR; VBR
Illuminator On/Off Control		Auto; Manual				Video Bit Rate	H.264:512kbps-8192kbps H.265:256kbps-7424kbps
Illuminator Number		2 (IR LED)				Day/Night	Auto (ICR)/Color/B/W
Pan/Tilt/Rot	tation Range	Pan: 0°–360° Tilt: –60°–0°				BLC	Yes
, ,		Rotation: 0°–360°				HLC	Yes
Lens						WDR	120 dB
Lens Type		Fixed-focal				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Mount Type		M12				Gain Control	Auto; manual
Focal Length	1	2.8mm; 3.6mm; 6mm				Noise Reduction	3D NR
Max. Apertu	Max. Aperture		2.8mm:F1.6 3.6mm:F1.6 6mm:F1.6			Motion Detection	OFF/ON (4 areas, rectangular)
		2.8 mm: Horizontal 107° × Vertical 56° × Diagonal 127°			-	Region of Interest (RoI)	Yes (4 areas)
Field of View	V	3.6 mm: Horizontal 88° × Vertical 44° × Diagonal 105° 6 mm: Horizontal 54° × Vertical 29° × Diagonal 63°			-	Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower)
Iris Type		Fixed				Mirror	Yes
Close Focus	Distance	2.8 mm: 0.7 m (2.5 ft) 3.6 mm: 1.3 m (4.25 ft)				Privacy Masking	8 areas
		6 mm: 2.8 m				Audio	
	Lens	Detect 43.9 m	Observe 17.5 m	Recognize 8.8 m	Identify 4.4 m	Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
DORI	2.8 mm	(144 ft)	(57.4 ft)	(28.8 ft)	(14.4 ft)	Built-in MIC	Yes
Distance	3.6 mm	58.9 m (193 ft)	23.6 m (77.4 ft)	11.8 m (38.4 ft)	5.9 m (19.4 ft)	Alarm	
	6 mm	88.3 m (289.6 ft)	35.3 m (115.8 ft)	17.7 m (58 ft)	8.8 m (28.8 ft)	Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene
Professio	nal, Intellige				c.		changing; audio detection; voltage detection; external alarm; SMD; security exception
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Network	
SMD 3.0	SMD 3.0		Less false alarm, longer detection distance			Network	RJ-45 (10/100 Base-T)
		Intrusion, tripwire (the two functions support the				SDK and API	Yes
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)  Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event			refine	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



Smart Search

intelligent search, event extraction and merging to event

execution; trusted upgrade

# **Wiz Sense** | DH-IPC-HFW3241DF-AS-4G

Network 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	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone	
User/Host	20 (Total bandwidth: 64 M)	
Storage	FTP;SFTP; Micro SD card (support max. 256 GB); NAS	
Browser	IE: IE8/9/11 Chrome Firefox	
Management Software	Smart PSS;DSS;DMSS	
Mobile Client	iOS;Android	
4G	4G_LTE: B1/B3/B5/B7/B8/B20/B28/B38/B40/B41 3G_WCDMA : B1/B5/B8 2G_GSM :B3/B5/B8	

### Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
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### Port

RS-485	1 (baud rate range:1200 bps–115200 bps)
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	2 channels in: 5 mA 3 V–5 VDC
Alarm Output	2 channels out: 300 mA 12 VDC

# Power

Power Supply	12 VDC		
Power Consumption	Basic: 3.3 W (12 VDC); Max. (WDR+H.265+IR+4G): 5.9W (12 VDC)		

### Environment

Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Operating Humidity	≤ 95%
Storage Temperature	−30 °C to +70 °C (−22 °F to +163 °F)
Protection	IP67

### Structure

Casing	Metal + plastic
Dimensions	227.6 mm × 204.2mm × 87.2 mm (9.0" × 8.0" × 3.4")
Net Weight	945 g (2.1 lb)
Gross Weight	1440 g (3.1 lb)

Ordering Information			
Туре	Model	Description	
2MP Camera	DH-IPC-HFW3241F-AS-4G	2MP IR Fixed focal Bullet WizSense 4G Network Camera	
	PFB121W	Wall Mount Bracket	
	PFB121W+PFA121+PFA152-E	Pole Mount Bracket	
	PFB110W	Celling Mount Bracket	
Accessories	PFM321D	12 VDC1A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender	
	PFM900-E	Integrated Mount Tester	
	PFM114	TLC SD Card	

# Accessories

### Standard:



PFB121W Wall Mount Bracket

### Optional:









PFB121W+PFA121+PFA152-E Pole Mount Bracket

PFB110W Celling Mount Bracket

PFM321D 12V DC 1 A Power Adapter



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



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

Ceiling Mount	Wall Mount	Pole Mount(Vertical)	



# Dimensions (mm[inch])



