

# 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.



### 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  $\pm 30\%$  (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 Specification**

Camera					
Image Sensor		1/2.8" CMOS			
Effective Pixels		1920 (H) × 1080 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.002 Lux@F1.6(Color,30IRE) 0.0002 Lux@F1.6(B/W,30IRE) 0 lux (Illuminator on)			
S/N Ratio		> 56 dB			
Illumination Distance		50 m (273 ft) (IR)			
Illuminator On/Off Control		Auto; Manual			
Illuminator Number		2 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: –60°–0° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8mm; 3.6mm; 6mm			
Max. Aperture		2.8mm:F1.6 3.6mm:F1.6 6mm:F1.6			
Field of View		2.8 mm: Horizontal 107° × Vertical 56° × Diagonal 127° 3.6 mm: Horizontal 88° × Vertical 44° × Diagonal 105° 6 mm: Horizontal 54° × Vertical 29° × Diagonal 63°			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 0.7 m (2.5 ft) 3.6 mm: 1.3 m (4.25 ft) 6 mm: 2.8 m (9.15 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	43.9 m (144 ft)	17.5 m (57.4 ft)	8.8 m (28.8 ft)	4.4 m (14.4 ft)
	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)
	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)
Professional, Intelligent					

#### Professional, Intelligent

Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	
SMD 3.0	Less false alarm, longer detection distance	
IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)	
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to even videos	

#### Video H.265; H.264; H.264H; H.264B; MJPEG (Only supported Video Compression by the sub stream) Smart H.265+; Smart H.264+ Smart Codec AI Coding AI Coding AI H.265; AI H.264 Main stream: 1920 × 1080@(1 fps-30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps) Video Frame Rate Third stream: $1920 \times 1080@(1 \text{ fps}-30 \text{ fps})$ \*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. Stream Capability 3 streams 1080p (1920 × 1080); 1.3M (1280 × 960); 720P (1280 Resolution × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288) Bit Rate Control CBR; VBR H.264:512kbps-8192kbps Video Bit Rate H.265:256kbps-7424kbps Day/Night Auto (ICR)/Color/B/W BLC Yes HLC Yes WDR 120 dB Auto; natural; street lamp; outdoor; manual; regional White Balance custom Gain Control Auto; manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) 0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 Image Rotation resolution and lower) Mirror Yes Privacy Masking 8 areas Audio Audio Compression PCM; G.711a; G.711Mu; G.726; G.723 Built-in MIC Yes Alarm No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion Alarm Event detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external alarm; SMD; security exception Network Network RJ-45 (10/100 Base-T) SDK and API Yes Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; Cyber Security IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade

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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			
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		
Accessories	PFB121W	Wall Mount Bracket		
	PFB121W+PFA121+PFA152-E	Pole Mount Bracket		
	PFB110W	Celling Mount Bracket		
	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 Celli

PFB110W Celling Mount Bracket PFM321D 12V DC 1 A Power Adapter



Single-port Long Reach Ethernet over

Coax Extender





PFM900-E Integrated Mount Tester

PFM114 TLC SD Card



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### Dimensions (mm[inch])

