



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.













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% (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.

Technical	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)				AI Coding	Al Coding Al H.265; Al H.264	
ROM		128 MB					Main stream: 1920 × 1080@(1 fps-30 fps)	
RAM		512 MB				Video Frame Rate	Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps) Third stream:1920 × 1080@(1 fps-30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding	
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					capacity.	
Min. Illumination		0.002 Lux@F1.6(Color,30IRE) 0.0002 Lux@F1.6(B/W,30IRE) 0 lux (Illuminator on)				Stream Capability Resolution	3 streams 1080p (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF	
S/N Ratio		> 56 dB				Resolution	(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/Rotation 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		2.8mm; 3.6mm; 6mm				Noise Reduction	3D NR	
Max. Apertu	re	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	1	3.6 mm: Horizontal 88° × Vertical 44° × Diagonal 105° 6 mm: Horizontal 54° × Vertical 29° × Diagonal 63°				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ 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) 6 mm: 2.8 m (9.15 ft)				Privacy Masking	8 areas	
	Lens	Detect	Observe	Recognize	Identify		Audio	
		43.9 m	17.5 m	8.8 m	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
Professional, Intelligent				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		Less false alarm, longer detection distance				Network	RJ-45 (10/100 Base-T)	
IVS (Davissatos Duatantias)		Intrusion, tripwire (the two functions support the				SDK and API	Yes	
IVS (Perimeter Protection) Smart Search		classification and accurate detection of vehicle and human) Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				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	
		videos						

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		
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Port

1 (baud rate range:1200 bps–115200 bps)		
1 channel (RCA port)		
1 channel (RCA port)		
2 channels in: 5 mA 3 V–5 VDC		
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])

