

DH-IPC-HFW2241T-AS

2MP IR Fixed-focal Bullet WizSense Network Camera





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.

System Overview

With advanced deep learning algorithm, Dahua WizSense 2 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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@25/30 fps.
- Support Triple Stream
- · H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 80 m.
- ROI, SMART 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 monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 (optional) protection.
- SMD Plus.













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.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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 work normally after soaking in $1\,\mathrm{m}$ 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.

Technica	l Specificati	on						Main stream: 1920 × 1080@(1–25/30 fps)
Camera							Video Frame Rate	Sub stream: 704 × 576 @ (1–25 fps)/704 × 480@(1–30 fps), Third stream: CIF@1fps *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Image Sensor		1/2.8" CMOS						
Max. Resolu	Max. Resolution		080 (V)				Stream Capability	3 streams
ROM		128 MB						1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
RAM		128 MB					Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning System		Progressive					Bit Rate Control	CBR/VBR
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps	
Min. Illumin	Min. Illumination		1.6(Color,30 IR -1.6(B/W,30 IR ator on)				Day/Night	Auto(ICR)/Color/B/W
S/N Ratio		0 lux (Illuminator on) >56 dB				BLC	Yes	
		3.6 mm: 30 m (98.43 ft) (IR IED)				HLC	Yes	
Illumination	Distance	6 mm: 50 m (164.04 ft) (IR IED) 8 mm: 80 m (262.47 ft) (IR IED)				WDR	120 dB	
Illuminator (On/Off Control	Auto; Manua	I				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illuminator Number		4 (IR LED)				Gain Control	Auto; Manual	
Pan/Tilt/Rot	Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Noise Reduction	3D NR
Lens		Notation. U =300				Motion Detection	OFF/ON (4 areas, rectangular)	
Lens Type		Fixed-focal				Region of Interest (RoI)	Yes (4 areas)	
Lens Mount		M12				Smart Illumination	Yes	
Focal Length		3.6 mm 6 mm				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)	
NAOV Amountu		8 mm				Mirror	Yes	
Max. Apertu	ire	F1.6				Privacy Masking	4 areas	
Field of Viev	V	3.6 mm: H: 88°; V: 44°; D: 105° 6 mm: H: 54°; V: 29°; D: 63° 8 mm: H: 42°; V: 23°; D: 47°				Audio		
Iris Control		Fixed				Built-in MIC	Yes	
Class Farms	Distance	3.6 mm: 1.3 m (4.27 ft) 6 mm: 2.6 m (8.53 ft)				Audio Compression	G.711a; G.711Mu; G.726; PCM	
Close Focus	Distance	8 mm: 4 m (1	. ,				Alarm	
	Lens 3.6 mm	Detect 58.9 m	Observe	Recognize	Identify 5.9 m		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception
DORI Distance		(193.24 ft) 85.5 m	(77.43 ft) 34.2 m	(38.71 ft) 17.1 m	(19.37 ft) 8.6 m		Network	, , , , , ,
	6 mm	(280.51 ft)	(112.20 ft)	(56.10 ft)	(28.22 ft)		Network Port	RJ-45 (10/100 Base-T)
8 mm		121.3 m (397.97 ft)	48.5 m (159.12 ft)	24.3 m (79.72 ft)	12.1 m (39.70 ft)		SDK and API	Yes
Intelligence		Intrusion, tripwire (the two functions support the				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP	
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)				Interoperability	ONVIF (Profile S/Profile T); CGI; P2P	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				User/Host	6 (Total bandwidth: 36 M)	
Video	Video		viucus				Storage	FTP;SFTP; Micro SD card (support max. 256 GB)
			H.265; H.264; H.264H; H.264B; MJPEG (Only supported				Browser	IE; Chrome; Firefox
Video Comp		by the sub stream)				Management Software	DSS; DMSS	
Smart Codec		Smart H.265+; Smart H.264+				Mobile Client	iOS; Android	

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Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; generation and importing of X.509 certification

Certification

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

Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5 mA 3–5VDC
Alarm Output	1 channel out: 300 mA 12VDC

Power

Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 1.9 W (12 VDC); 2.6 W (PoE) Max. (H.265+intelligence on +WDR + max. illumination): 6.6 W (12 VDC): 7.9 W (PoF)		

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Protection	IP67, IK10 (optional)		

Structure

Casing Material	Metal
Product Dimensions	238.5 mm × Φ90.7 mm (9.39" × Φ3.57")
Net Weight	0.72 kg (1.90 lb)
Gross Weight	0.95 kg (1.52 lb)

Ordering Information			
Туре	Model	Description	
2MP Camera	DH-IPC-HFW2241T-AS	2MP IR Fixed-focal Bullet WizSense Network Camera	
	PFA130-E	Junction Box	
	PFA152-E	Pole Mount Bracket	
Accessories (Optional)	PFM321D	12 VDC 1 A Power Adapter	
(-,,	PFM900-E	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	

Accessories

Optional:







PFA130-E Junction Box

PFA152-E Pole Mount Bracket

 2-E
 PFM321D

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 12 VDC 1A

 set
 Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

