

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.
- 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.













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 work normally 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.

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+	
Max. Resolution		1920 (H) × 1080 (V)				Video Frame Rate	Main stream: 1920 × 1080@(1–25/30 fps) Sub stream: 704 × 576 @ (1–25 fps)/704 × 480@(1–30 fps)	
ROM		128 MB						
RAM	RAM		128 MB				video i i dine nate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Scanning Sys	Scanning System		Progressive				Stream Capability	to the total encoding capacity. 2 streams
Electronic Sh	utter Speed	Auto/Manual	1/3 s-1/100,0	000 s			Stream capability	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Min. Illumina	ation	0.002 lux@F1.6(Color,30 IRE) 0.0002 lux@F1.6(B/W,30 IRE) 0 lux (Illuminator on)				Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
S/N Ratio		>56 dB				Bit Rate Control	CBR/VBR	
Illumination	Distance	up to 80 m (262.47 ft) (IR LED)				Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps	
Illuminator C	n/Off Control	Auto; Manual				Day/Night	Auto(ICR)/Color/B/W	
Illuminator N	lumber	4 (IR LED)				BLC	Yes	
Pan/Tilt/Rota	ation Range	Pan: 0°–360° Tilt: 0°–90°				HLC	Yes	
, ,		Rotation: 0°–360°				WDR	120 dB	
Lens Type		Fixed-focal				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Lens Mount			M12				Gain Control	Auto; Manual
Focal Length			3.6 mm				Noise Reduction	3D NR
Tocal Length		6 mm 8 mm				Motion Detection	OFF/ON (4 areas, rectangular)	
Max. Apertu	re	F1.6				Region of Interest (RoI)	Yes (4 areas)	
Field of View	,	3.6 mm: H: 88°; V: 44°; D: 105° 6 mm: H: 54°; V: 29°; D: 63°				Smart Illumination	Yes	
Iris Control		8 mm: H: 42°; V: 23°; D: 47° Fixed				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)	
Close Focus I	Distance	3.6 mm: 1.3 m (4.27 ft) 6 mm: 2.6 m (8.53 ft)				Mirror	Yes	
Close i deus i	5.5.400	8 mm: 4 m (1					Privacy Masking	4 areas
	Lens	Detect	Observe	Recognize	Identify		Audio	
	3.6 mm	58.9 m (193.24 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)	5.9 m (19.37 ft)		Built-in MIC	Yes
	6 mm	85.5 m (280.51 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.6 m (28.22 ft)		Audio Compression	G.711a; G.711Mu; G.726; PCM
DORI Distance	8 mm	110.3 m	44.1 m	22.1 m	11.0 m		Alarm	
	(EN-62676-4)	(361.88 ft) (144.69 ft) (72.51 ft) (36.09 ft) ORI (Detect, Observe, Recognize, Identify) is a standard system 62676-4) for defining the ability of a person viewing the video to inguish persons or objects within a covered area. The numbers in				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	
this table do		not reflect intelligent function distances. For intelligent nces, refer to installation and commissioning manual/				Network		
project design						Network Port	RJ-45 (10/100 Base-T)	
Intelligend	Intelligence						SDK and API	Yes
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P	
Smart Search	ı	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI	
						lloom/llook	6 (T-+-1	

User/Host

6 (Total bandwidth: 36 M)

Wiz Sense | DH-IPC-HFW2241T-AS

Storage	FTP;SFTP; Micro SD card (support max. 256 GB)		
Browser	IE; Chrome; Firefox		
Management Software	DSS; DMSS		
Mobile Client	iOS; Android		
Security	Trusted execution; Digest; Security logs; WSSE; Account lockout; Syslog; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Generation and importing of X.509 certification		

Certification

	CE-LVD: EN62368-1;
Certifications	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 (PoE)		

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

PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Celling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

