

DH-IPC-HFW2441T-AS

4MP IR Fixed-focal Bullet WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688×1520)@20 fps and supports 2560×1440 (2560×1440)@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.
- IIntelligent 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.

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 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.

Technical	Specificati	on					Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@
Camera					Wide Space Date	(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30	
Image Sensor		1/2.9" CMOS				Video Frame Rate	fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Max. Resolution		2688 (H) × 1520 (V)					to the total encoding capacity.
ROM		128 MB				Stream Capability	2 streams
RAM		128 MB				Danalistica.	4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Scanning System		Progressive				Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Bit Rate Control	CBR/VBR
Min. Illumination		0.008 lux@F1.6 (Color,30 IRE) 0.0008 lux@F1.6 (B/W,30 IRE)				Video Bit Rate	H.264: 32 kbps-6144 kbps; H.265: 12 kbps-6144 kbps
S/N Ratio		0 lux (Illuminator on) >56 dB				Day/Night	Auto(ICR)/Color/B/W
2,	3/IN NAUU					BLC	Yes
Illumination	Distance	3.6 mm: 30 m (98.43 ft) (IR IED) 6 mm: 50 m (164.04 ft) (IR IED) 8 mm: 80 m (262.47 ft) (IR IED)				HLC	Yes
Illuminator C	n/Off Control	Auto; Manua	I			WDR	120 dB
Illuminator Number		4 (IR LED)				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Gain Control	Auto; Manual
Lens		Notation. 0 –500				Noise Reduction	3D NR
Lens Type		Fixed-focal				Motion Detection	OFF/ON (4 areas, rectangular)
Lens Mount		M12				Region of Interest (RoI)	Yes (4 areas)
		8 mm; 6 mm; 3.6 mm				Smart Illumination	Yes
Focal Length Max. Aperture		F1.6				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Field of View		3.6 mm: H: 84°; V: 42°; D: 101°				Mirror	Yes
rield of view		6 mm: H: 52°; V: 28°; D: 61° 8 mm: H: 40°; V: 23°; D: 46°				Privacy Masking	4 areas
Iris Control		Fixed				Audio	
Close Focus	Distance	3.6 mm: 1.7 m (5.58 ft) 6 mm: 3.2 m (10.50 ft)				Built-in MIC	Yes
		8 mm: 4.6 m (15.09 ft)				Audio Compression	G.711a; G.711Mu; G.726; PCM
	Lens	Detect	Observe	Recognize	Identify	Alarm	
DORI Distance	3.6 mm 6 mm	85.4 m (280.18 ft) 124.0 m	34.2 m (112.20 ft) 49.6 m	17.1 m (56.10 ft) 24.8 m	8.5 m (27.89 ft) 12.4 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
	9 mm	(406.82 ft) 150.4 m	(162.73 ft) 60.2 m	(81.36 ft) 30.1 m	(40.68 ft) 15.0 m	Network	detection; voltage detection; SMD; security exception
8 mm		(493.44 ft)	(197.51 ft)	(98.75 ft)	(49.21 ft)	Network Port	RJ-45 (10/100 Base-T)
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;
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Interoperability	ICMP; IGMP ONVIF (Profile S/Profile T); CGI; P2P
Video		VIUCOS				User/Host	6 (Total bandwidth: 36 M)
		H.265; H.264; H.264H; H.264B; MJPEG (Only supported			ly supported	·	FTP;SFTP; Micro SD card (support max. 256 GB)
	Video Compression		by the sub stream)			Storage Browser	IE; Chrome; Firefox
Smart Codec		Smart H.265+; Smart H.264+				Management Software	Des. Divise

Management Software

DSS; DMSS

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Mobile Client	iOS; Android
Cyber Security	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

	CE-LVD: EN62368-1;
Certifications	CE-EMC: Electromagnetic Compatibility Directive 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 12 VDC

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.3 W (12 VDC); 3 W (PoE) Max. (H.265+intelligence on +WDR + max. illumination): 7 W (12 VDC); 8.3 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	
4MP Camera	DH-IPC-HFW2441T-AS	4MP 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])

mm [inch]





