



DH-IPC-HFW2841T-AS

8MP 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.

Series 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) are largely reduced.

- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160) @20 fps, and supports 2688 × 1520 (2688 × 1520) @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.

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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical	l Specification	on						Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@
Camera					(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30			
Image Sensor		1/2.7" CMOS					Video Frame Rate	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.
Max. Resolution		3840 (H) × 2160 (V)						
ROM		128 MB					Stream Capability	2 streams
RAM		256 MB					Resolution	3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 × 1728 (3072 × 1728); 2880 × 1620 (2880 × 1620); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s						
opeca		0.009 lux@F 2.0 (Color, 30 IRE)					Bit Rate Control	CBR/VBR
Min. Illumination		0.0009 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
S/N Ratio		>56 dB					Day/Night	Auto(ICR)/Color/B/W
Illumination Distance		Up to 80 m (262.47 ft) (IR)					BLC	Yes
Illuminator On/Off Control		Auto; Manual					HLC	Yes
Illuminator Number		4 (IR LED)					WDR	120 dB
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens		Notation. 0 300					Gain Control	Auto; Manual
Lens Type		Fixed-focal					Noise Reduction	3D NR
Lens Mount		M12					Motion Detection	OFF/ON (4 areas, rectangular)
Focal Length		3.6 mm; 6 mm					Region of Interest (RoI)	Yes (4 areas)
Max. Aperture		F2.0					Smart Illumination	Yes
Field of View		3.6 mm: H: 88°; V: 46°; D: 104° 6 mm: H: 55°; V: 31°; D: 62°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Iris Control		Fixed					Mirror	Yes
Close Focus Distance		3.6 mm: 1.9 m (6.23 ft)					Privacy Masking	4 areas
ciose i ocus		6 mm: 3.5 m					Audio	
	Lens	Detect 106.7 m	Observe 42.7 m	Recognize 21.3 m	Identify 10.7 m		Built-in MIC	Yes
	3.6 mm	(350.07 ft)	(140.09 ft)	(69.88 ft)	(35.10 ft)		Audio Compression	G.711a; G.711Mu; PCM; G.726
DORI	6 mm	154.7 m (507.55 ft)	61.9 m (203.08 ft)	30.9 m (101.38 ft)	15.5 m (50.85 ft)		Alarm	
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/						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; external alarm
project design tool.				Network				
Intelligence		Intrusion, tripwire (the two functions support the					Network Port	RJ-45 (10/100 Base-T)
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)					SDK and API	Yes
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event 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; PPPoE; Boujour; P2P
Video							Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				User/Host	20 (Total bandwidth: 48 M)	
Smart Code	С	Smart H.265+; Smart H.264+					Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
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Browser

ΙE

Chrome

Wiz Sense | DH-IPC-HFW2841T-AS

Management Software	SmartPSS Lite; DSS; DMSS
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; firmware encryption; generation and importing of X.509 certification
Certification	
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14
Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC
Power	
Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.4 W (12 VDC); 3.3 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 7.5 W (12 VDC); 8.9 W (PoE)
Environment	

Protection Structure

Operating Temperature

Operating Humidity

Storage Temperature

Storage Humidity

Casing Material	Metal
Product Dimensions	238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57") (L × W × H)
Net Weight	0.72 kg (1.90 lb)
Gross Weight	0.95 kg (1.52 lb)

IP67; IK10 (optional)

-40 °C to +60 °C (-40 °F to +140 °F)

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≤95%

≤95%

Ordering Information				
Туре	Model	Description		
8MP Camera	DH-IPC-HFW2841T-AS	8MP IR Fixed-focal Bullet WizSense Network Camera		
	PFA130-E	Water-proof 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 Water-proof Junction Box

PFA152-E Pole Mount Bracket

PFM321D 12 VDC 1A Power Adapter





PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

