

DH-IPC-HFW2841T-ZAS

8MP IR Vari-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) 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 35 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 (Only ZAS supports); audio: 1 in, 1 out (Only ZAS supports); 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 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 Specification								Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@(1–25/30 fps)
Camera							Video Frame Rate	sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)
Image Sensor		1/2.7" CMOS					video Frame Rate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Max. Resolution		3840 (H) × 2160 (V)					Characan Completition	to the total encoding capacity.
ROM		128 MB					Stream Capability	2 streams
RAM	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						
Min. Illumination		0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE)					Bit Rate Control	CBR/VBR
		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 35 m (114,82 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							Gain Control	Auto; Manual
Lens Type		Motorized vari-focal					Noise Reduction	3D NR
Lens Mount		ф14					Motion Detection	OFF/ON (4 areas, rectangular)
Focal Length		2.7 mm-13.5	mm				Region of Interest (RoI)	Yes (4 areas)
Max. Aperture		F1.5					Smart Illumination	Yes
Field of View		H: 113°–31°; V: 58°–18°; D: 138°–36°					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Iris Control		Fixed					Mirror	Yes
Close Focus Distance		0.8 m (2.62 ft)					Privacy Masking	4 areas
	Lens	Detect	Observe	Recognize	Identify		Audio	
	W	85.3 m (279.86 ft)	34.1 m (111.88 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)		Built-in MIC	Yes
DORI	Т	280.0 m (918.64 ft)	112.0 m (367.45 ft)	56.0 m (183.73 ft)	28.0 m (97.86 ft)		Audio Compression	G.711a; G.711Mu; PCM; G.726
Distance		*DORI (Detect, Observe, Recognize, Identify) is a standard system					Alarm	
	(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/project design tool.						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; defocus detection; external alarm (Only- ZAS supports); SMD; security exception
Intelligend	ce	Intrusion trin	laboration delivering fals and for all an arrangement also				Network	
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)					Network Port	RJ-45 (10/100 Base-T)
Smart Sparch		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					SDK and API	Yes
Smart Search Video		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 Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI;
Smart Codec		Smart H.265+; Smart H.264+					User/Host	20 (Total bandwidth: 48 M)
S.Mart Coace		Sind CTIZOOT, Sind CTIZOTT						

Storage

FTP; SFTP; Micro SD card (support max. 256 GB); NAS

WIZ Selise	DH-IPC-HFW 28411-ZAS					
Browser	IE; Chrome; Firefox					
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) (Only- ZAS supports)					
Audio Output	1 channel (RCA port) (Only- ZAS supports)					
Alarm Input	1 channel in: 5mA 3V–5 VDC (Only- ZAS supports)					
Alarm Output	1 channel out: 300mA 12 VDC (Only- ZAS supports)					
Power						
Power Supply	12 VDC/PoE (802.3af)					
Power Consumption	-ZS: Basic: 2.7 W (12 VDC); 3.6 W (PoE); Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 8.3 W (12 VDC); 9.6 W (PoE) -ZAS: Basic: 2.7 W (12 VDC); 3.6 W (PoE); Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 8.4 W (12 VDC); 9.7 W (PoE)					
Environment						
Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)					
Operating Humidity	≤95%					
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)					
Storage Humidity	≤95%					
Protection	IP67; IK10 (optional)					
Structure						
Casing Material	Metal					

238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57")

 $(L \times W \times H)$

-ZS: 0.74 kg (1.63 lb) -ZAS: 0.77 kg (1.70 lb)

-ZS: 0.98 kg (2.16 lb) -ZAS: 1.01 kg (2.23 lb)

Product Dimensions

Net Weight

Gross Weight

Ordering Information							
Туре	Model	Description					
CNAD Come are	DH-IPC-HFW2841T-ZAS	8MP IR Vari-focal Bullet WizSense Network Camera					
8MP Camera	DH-IPC-HFW2841T-ZS	8MP IR Vari-focal Bullet WizSense Network Camera					
	PFA130-E	Water-proof Junction Box					
	PFA152-E	Pole Mount Bracket					
Accessories (Optional)	PFM321D	12 VDC 1A Power Adapter					
, ,	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					

Accessories

Optional:







PFA152-E Pole Mount Bracket



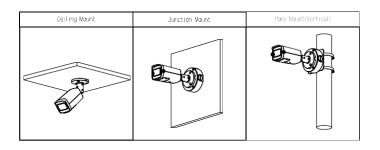
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

