

DH-IPC-HFW2841T-Z(A)S

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.
- · Support Triple Stream
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 60 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.













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 Specification							Stream Capability	3 streams
Camera							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 ×
Image Sensor		1/2.7" CMOS						
Max. Resolution		3840 (H) × 2160 (V)					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)	
ROM		128 MB					Bit Rate Control	CBR/VBR
RAM		256 MB					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
Scanning System		Progressive					Day/Night	Auto(ICR)/Color/B/W
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					BLC	Yes
Min. Illumination		0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)					HLC	Yes
S/N Ratio		>56 dB					WDR	120 dB
Illumination Distance		Up to 60 m (196.85 ft) (IR)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illuminator On/Off Control		Auto; Manual					Gain Control	Auto; Manual
Illuminator N	Illuminator Number		4 (IR LED)				Noise Reduction	3D NR
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°					Motion Detection	OFF/ON (4 areas, rectangular)
		Rotation: 0°–360°					Region of Interest (RoI)	Yes (4 areas)
Lens		Managing described					Smart Illumination	Yes
Lens Nount	Lens Type Lens Mount		Motorized vari-focal φ14				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Focal Length		2.7 mm-13.5 mm					Mirror	Yes
Max. Aperture		F1.5					Privacy Masking	4 areas
Field of View		H: 113°–31°; V: 58°–18°; D: 138°–36°					Audio	
Iris Control		Fixed					Built-in MIC	Yes
Close Focus	Distance	0.8 m (2.62 ft)					Audio Compression	G.711a; G.711Mu; PCM; G.726
	Lens	Detect	Observe	Recognize	Identify		Alarm	
DORI Distance	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)	Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio	
	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)			detection; voltage detection; defocus detection; external alarm (Only- ZAS supports); SMD; security exception
Intelligen	Intelligence						Network	
IVS (Perimet	IVS (Perimeter Protection)		wire (the two i and accurate d				Network Port	RJ-45 (10/100 Base-T)
		human) Work together with Smart NVR to perform refine					SDK and API	Yes
Smart Search Video		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
		H.265; H.264; H.264H; H.264B; MJPEG (Only supported					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI;
Video Compression		by the sub stream)					User/Host	20 (Total bandwidth: 48 M)
Smart Codec		Smart H.265+; Smart H.264+					Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Video Frame Rate		Main stream: $3840 \times 2160@(1-20 \text{ fps})/2688 \times 1520@(1-25/30 \text{ fps})$					Browser	IE; Chrome; Firefox
		sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) Third stream: CIF@1fp *The values above are the may frame rates of each					Management Software	SmartPSS Lite; DSS; DMSS
		*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.					Mobile Client	iOS; Android
		to the total encoding capacity.						

wiz sense	DH-IPC-HFW28411-Z(A)S				
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				
Product Dimensions	238.5 mm \times 90.7 mm \times 90.7 mm (9.39" \times 3.57" \times 3.57") (L \times W \times H)				
Net Weight	-ZS: 0.74 kg (1.63 lb) -ZAS: 0.77 kg (1.70 lb)				
Gross Weight	-ZS: 0.98 kg (2.16 lb) -ZAS: 1.01 kg (2.23 lb)				

Ordering Information							
Туре	Model	Description					
8MP Camera	DH-IPC-HFW2841T-ZAS	8MP IR Vari-focal Bullet WizSense Network Camera					
8IVIP 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



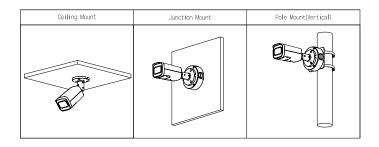
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

