



DH-IPC-HDW2841TM-S

8MP IR Fixed-focal Eyeball 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 30 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.
- · Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply.
- · IP67 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	2 streams	
Camera							3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048);	
Image Sensor		1/2.7" CMOS					Resolution	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)
Max. Resolution		3840 (H) × 2160 (V)						
ROM		128 MB					Bit Rate Control	CBR/VBR
RAM		256 MB					Video Bit Rate	H.264: 32 kbps–8192 kbps
Scanning Sys	tem	Progressive						H.265: 12 kbps–8192 kbps
Electronic Sh	utter Speed	Auto/Manua	l 1/3 s-1/100,0	000 s			Day/Night	Auto(ICR)/Color/B/W
Min. Illumina	ation	0.009 lux@F2.0 (Color, 30 IRE) 0.0009 lux@F2.0 (B/W, 30 IRE)					BLC HLC	Yes
S/N Ratio		0 lux (Illuminator on) >56 dB					WDR	120 dB
Illumination	Distance	30 m (98.43	ft) (IR)					Auto; natural; street lamp; outdoor; manual; regional
	On/Off Control						White Balance	custom
							Gain Control	Auto; Manual
Illuminator N	lumber	1 (IR LED) Pan: 0°-360°					Noise Reduction	3D NR
Pan/Tilt/Rot	ation Range	Tilt: 0°-78°					Motion Detection	OFF/ON (4 areas, rectangular)
Lens		Rotation: 0°–360°					Region of Interest (RoI)	Yes (4 areas)
Lens Type		Fixed-focal					Smart Illumination	Yes
Lens Mount		M12					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Focal Length		2.8 mm;3.6 mm					Mirror	Yes
Max. Apertu	re	F2.0					Privacy Masking	4 areas
Field of View	1	2.8 mm: H: 106°; V: 56°; D: 125° 3.6 mm: H: 88°; V: 46°; D: 104°					Audio	
Iris Control		Fixed					Built-in MIC	Yes
Close Focus	Distance	2.8 mm: 1.3 m (4.27 ft)					Audio Compression	G.711a; G.711Mu; PCM; G.726
0.000 1 0000		3.6 mm: 1.9 m (6.23 ft)				Alarm		
	Lens	Detect		Recognize	Identify		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion
DORI Distance	2.8 mm	88.0 m (288.71 ft) 106.7 m	35.2 m (115.49 ft) 42.7 m	17.6 m (57.74 ft) 21.3 m	8.8 m (28.87 ft) 10.7 m			detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception
	3.6 mm	(350.07 ft)	(140.09 ft)	(69.88 ft)	(35.10 ft)		Network	
Intelligence						Network Port	RJ-45 (10/100 Base-T)	
IVS (Perimet	er Protection)	Intrusion, tripwire (the two functions support the 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
Video				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone			
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 Codec		Smart H.265+; Smart H.264+					Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Video Frame Rate		Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30					Browser	IE Chrome Firefox
		fps) *The values above are the max. frame rates of each					Management Software	Smart PSS; DSS; DMSS
		stream; for multiple streams, the values will be subjected to the total encoding capacity.					Mobile Client	iOS; Android

Certification

	CE-LVD: EN62368-1;		
	CE-EMC: Electromagnetic Compatibility Directive		
Certifications	2014/30/EU;		
	FCC: 47 CFR FCC Part 15, Subpart B;		
	UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14		

Power

Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 2.7 W (12 VDC); 3.4 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 4.5 W (12 VDC); 5.4 W (PoE)		

Environment

Operating Temperature	-40 °C to +55 °C (-40 °F to +131 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95%
Protection	IP67

Structure

Casing Material	Inner core: Metal Cover: Metal Decoration ring: Plastic Quick install mounting plate: Metal		
Product Dimensions	99.1 mm × Φ121.9 mm (3.90"× Φ4.80")		
Net Weight	0.48 kg (1.06 lb)		
Gross Weight	0.68 kg (1.50 lb)		

Ordering Information				
Туре	Model	Description		
8MP Camera	DH-IPC-HDW2841TM-S	8MP IR Fixed-focal Eyeball WizSense Network Camera		
	PFA130-E	Water-proof Junction Box		
	PFB205W-E	Wall Mount Bracket		
	PFA152-E	Pole Mount Bracket		
Accessories	PFA109	Mount Adapter		
(Optional)	PFB220C	Ceiling Mount Bracket		
	PFM321D	12 VDC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:



PFA130-E Water-proof Junction Box

PFA109

Mount Adapter



PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFB220C Ceiling Mount Bracket



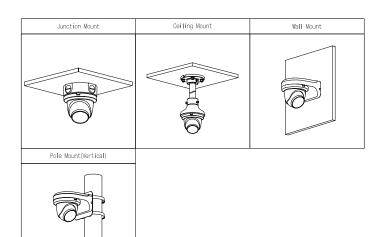
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

