

DH-IPC-HDW2841T-S

8MP IR Fixed-focal Eyeball WizSense Network Camera



Wiz Sense

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

Wiz Sense | DH-IPC-HDW2841T-S

Technical Specification								Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@ (1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 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.
Camera								
Image Sensor		1/2.7" CMOS					Video Frame Rate	
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						
Min. Illumination		0.009 lux@F2.0 (Color, 30 IRE) 0.0009 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Bit Rate Control	CBR/VBR
C/N Datia							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		30 m (98.43 ft) (IR)					BLC	Yes
Illuminator On/Off Control		Auto;Manual					HLC	Yes
Illuminator Number		1 (IR LED) Pan: 0°-360°					WDR	120 dB
Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens							Gain Control	Auto; Manual
Lens Type		Fixed-focal					Noise Reduction	3D NR
Lens Mount		M12					Motion Detection	OFF/ON (4 areas, rectangular)
Focal Length		2.8 mm; 3.6 mm					Region of Interest (RoI)	Yes (4 areas)
Max. Aperture		F2.0					Smart Illumination	Yes
Field of View		2.8 mm: H: 106°; V: 56°; D: 125° 3.6 mm: H: 88°; V: 46°; D: 104°					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Iris Control		Fixed					Mirror	Yes
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 1.9 m (6.23 ft)					Privacy Masking	4 areas
	Lens	Detect	Observe	Recognize	Identify		Audio	
	2.8 mm	88.0 m (288.71 ft)	35.2 m (115.49 ft)	17.6 m	8.8 m		Built-in MIC	Yes
		(288.71 IL) 106.7 m	(115.49 ft) 42.7 m	(57.74 ft) 21.3 m	(28.87 ft) 10.7 m		Audio Compression	G.711a; G.711Mu; PCM; G.726
DORI	3.6 mm	(350.07 ft) (140.09 ft) (69.88 ft) (35.10 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
	project desigr	tool.					Network	
Intelligenc	ce						Network Port	RJ-45 (10/100 Base-T)
IVS (Perimeter 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

Wiz Sense | DH-IPC-HDW2841T-S

Browser	lE Chrome Firefox					
Management Software	Smart PSS; 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					
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: Plastic					
Product Dimensions	100.9 mm × Φ109.9 mm (3.97"× Φ4.33")					
Net Weight	0.37 kg (0.82 lb)					
Gross Weight	0.56 kg (1.23 lb)					

Ordering Information

Туре	Model	Description	
8MP Camera	DH-IPC-HDW2841T-S	8MP IR Fixed-focal Eyeball WizSense Network Camera	
	PFA13G	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

Junction Box

PFA109 Mount Adapter

Optional:



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PFB205W-E

Wall Mount Bracket



PFA152-E Pole Mount Bracket



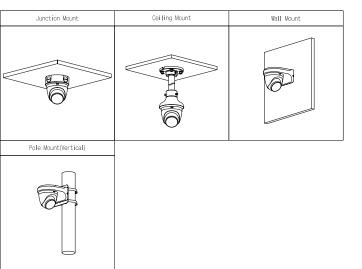
PFB220C Ceiling Mount Bracket



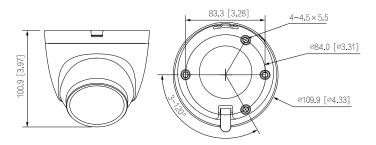
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PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card



Dimensions (mm[inch])



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