

DH-IPC-HDW2849T-S-IL

8MP Smart Dual Light 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

Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

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.

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 warm light and IR LED, the max. illumination distance is 30 m and the max. warm light 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, easy for installation.
- IP67 protection.
- SMD Plus.



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.

Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultralow illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

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.

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Technical Specification Camera Image Sensor 1/2.7" CMOS 3840 (H) × 2160 (V) Max. Resolution ROM 128 MB RAM 256 MB Scanning System Progressive Auto/Manual 1/3 s-1/100,000 s **Electronic Shutter Speed** 0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE) Min. Illumination 0 lux (Illuminator on) S/N Ratio >56 dB up to 30 m (98.43 ft) (IR); up to 30 m (98.43 ft) (Warm Illumination Distance light) Illuminator On/Off Control Auto; Manual Illuminator Number 1 (IR LED); 1(Warm light) Pan: 0°-360° Tilt: 0°-78° Pan/Tilt/Rotation Range Rotation: 0°-360° Lens Fixed-focal Lens Type Lens Mount M12 Focal Length 2.8 mm; 3.6 mm Max. Aperture F1.6 2.8 mm: H: 111°; V: 58°; D: 132° Field of View 3.6 mm: H: 87°; V: 49°; D: 100° Iris Control Fixed 2.8 mm: 1.5 m (4.92 ft) **Close Focus Distance** 3.6 mm: 1.9 m (6.23 ft) Lens Detect Observe Recognize Identify 84.8 m 33.9 m 17.0 m 8.5 m DORI 2.8 mm (278.22 ft) (55.77 ft) (27.89 ft) (111.22 ft) Distance 98.7 m 39.5 m 19.7 m 9.9 m 3.6 mm (350.07 ft) (129.59 ft) (64.63 ft) (32.48 ft) Intelligence Intrusion, tripwire (the two functions support the **IVS (Perimeter Protection)** classification and accurate detection of vehicle and human) Work together with Smart NVR to perform refine Smart Search intelligent search, event extraction and merging to event videos Video H.265; H.264; H.264H; H.264B; MJPEG (Only supported Video Compression by the sub stream) Smart Codec Smart H.265+; Smart H.264+ Main stream: 3840 × 2160 @(1–20 fps)/2688 × 1520@ (1-25/30 fps) sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30 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.

Resolution3840 × 2160 (3840 × 2150); 3072 × 2048 (3072 × 2048) 3072 × 1728 (3072 × 1728); 2880 × 1520 (2888 × 1520); 380 2304 × 1536); 2304 × 1296 (2304 × 1296); 1206 (2880 × 1520); 330 (1208 × 2306); 7200 (1208 × 720); D1 (704 × 576/704 × 480); VGA 640 × 480); CIF (352 × 288/352 × 240)Bit Rate ControlCBR/VBRVideo Bit Rate1.264: 32 kbps-8192 kbps 1.265: 12 kbps-8192 kbpsDay/NightAuto(ICR)/Color/B/WBLCVesVDR120 dBVideo Bit Ratevido; natural; street lamp; outdoor; manual; regional clastonNoise Reduction0F/F/ON (4 areas, rectangular)Motion Detection0F/F/ON (4 areas)MartinvesInage RotationvesMirrorvesMutiovesMutio1.200/CSU (Support 90*/270* with 2688×1520)MirrorvesMutionves
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Network
Network Port RJ-45 (10/100 Base-T)
SDK and API Yes
Network Protocol IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; Network Protocol SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour
Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone
User/Host 20 (Total bandwidth: 48 M)
Storage FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Browser Chrome Firefox
Management Software Smart PSS; DSS; DMSS
Mobile Client iOS; Android

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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: 2.6 W (12 VDC); 3.3 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + warm light intensity + IVS): 5 W (12 VDC); 5.9 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	0.38 kg (0.84 lb)	
Gross Weight	0.52 kg (1.15 lb)	

Ordering Information

Туре	Model	Description
8MP Camera	DH-IPC-HDW2849T-S-IL	8MP Smart Dual Light Fixed-focal Eyeball WizSense Network Camera
F Accessories (Optional) F F	PFA13G	Junction Box
	PFB205W-E	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
	PFA109	Mount Adapter
	PFB220C	Ceiling Mount Bracket
	PFM321D	12 VDC 1A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card

Accessories

Optional:



Junction Box

PFA109

Mount Adapter

PFM900-E

Tester

Junction Mount

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PFB205W-E Wall Mount

Bracket



PFA152-E Pole Mount Bracket



PFB220C Ceiling Mount Bracket



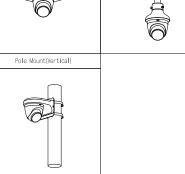
Integrated Mount

TF-P100 MicroSD Memory

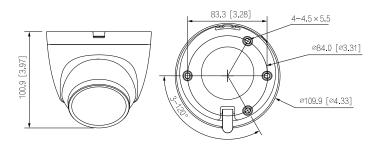
Card

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Ceiling Mount Wall Mount ð



Dimensions (mm[inch])



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