

DH-IPC-HDW2849T-S-IL

8MP Smart Dual Light Fixed-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.

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 ultra-low 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.

Technical Specification						Stream Capability	2 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 × 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)		
Image Sensor		1/2.7" CMOS						
Max. Resolution		3840 (H) × 2160 (V)						
ROM		128 MB					Bit Rate Control	CBR/VBR
RAM		256 MB						H.264: 32 kbps–8192 kbps
Scanning Syst	tem	Progressive					Video Bit Rate	H.265: 12 kbps-8192 kbps
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Day/Night	Auto(ICR)/Color/B/W
Min. Illumination		0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE)					BLC HLC	Yes
C/N Datio			0 lux (Illuminator on)				WDR	120 dB
5/ N Ratio	S/N Ratio		>56 dB					Auto; natural; street lamp; outdoor; manual; regional
Illumination [Illumination Distance		up to 30 m (98.43 ft) (IR); up to 30 m (98.43 ft) (Warm light)				White Balance	custom
Illuminator O	n/Off Control	Auto; Manua	1				Gain Control	Auto; Manual
Illuminator N	umber	1 (IR LED); 1(Warm light)				Noise Reduction	3D NR
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°					Motion Detection	OFF/ON (4 areas, rectangular)
, ,		Rotation: 0°–360°				Region of Interest (RoI)	Yes (4 areas)	
Lens							Smart Illumination	Yes
Lens Type		Fixed-focal					Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Support $90^\circ/270^\circ$ with 2688×1520 resolution and lower)
Lens Mount		M12					Mirror	Yes
Focal Length		2.8 mm; 3.6 mm					Privacy Masking	4 areas
Max. Aperture		F1.6					Audio	
Field of View		2.8 mm: H: 111°; V: 58°; D: 132° 3.6 mm: H: 87°; V: 49°; D: 100°					Built-in MIC	Yes
Iris Control		Fixed					Audio Compression	G.711a; G.711Mu; PCM; G.726
Close Focus D	Distance	2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 1.9 m (6.23 ft)					Alarm	
	Lens	Detect	Observe	Recognize	Identify		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
DORI Distance	2.8 mm	84.8 m (278.22 ft)	33.9 m (111.22 ft)	17.0 m (55.77 ft)	8.5 m (27.89 ft)			
	3.6 mm	98.7 m (350.07 ft)	39.5 m (129.59 ft)	19.7 m (64.63 ft)	9.9 m (32.48 ft)		Network	
Intelligend	ce					Network Port	RJ-45 (10/100 Base-T)	
IVS (Perimete	IVS (Perimeter Protection)		owire (the two and accurate d				SDK and API	Yes
Smart Search		human) Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					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		videos					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported					User/Host	20 (Total bandwidth: 48 M)
·		by the sub stream)					Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Smart Codec		Smart H.265+; Smart H.264+ Main stream: 3840 × 2160 @(1–20 fps)/2688 × 1520@(1–25/30 fps)					Browser	IE Chrome Firefox
Video Frame Rate		sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480@(1-30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.				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
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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: 2.6 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	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F})$
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 Bullet 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

Optional:



PFA13G Junction Box



PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



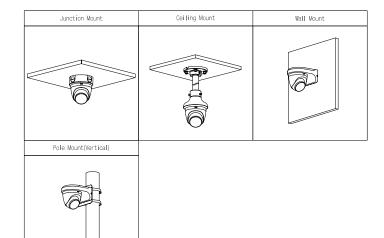
12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

