

DH-IPC-HDW2549TM-S-IL

5MP 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.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 × 1668) @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 ±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					2960 × 1668 (2960 × 1668); 2880 × 1620 (2880 × 1620);			
Image Sensor		1/2.7" CMOS					Resolution	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		2960 (H) × 1668 (V)						
ROM		128 MB					Bit Rate Control	CBR/VBR
RAM		256 MB					Video Bit Rate	H.264: 32 kbps–8192 kbps
Scanning Sys	stem	Progressive						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		0.007 Lux@F1.6(Color,30IRE) 0.0007 Lux@F1.6(B/W,30IRE)					BLC HLC	Yes
S/N Ratio		0 lux (Illuminator on) >56 dB					WDR	120 dB
Illumination	Distance	up to 30 m (98.43 ft) (IR); up to 30 m (98.43 ft) (Warm light)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illuminator (On/Off Control	Auto; Manual					Gain Control	Auto; Manual
Illuminator I	Number	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)
Tany may notation manage		Rotation: 0°–360°					Region of Interest (RoI)	Yes (4 areas)
Lens							Smart Illumination	Yes
Lens Type		Fixed-focal					Image Rotation	0°/90°/180°/270° (Support 90°/270° 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 Viev	V	2.8 mm: H: 111°; V: 58°; D: 132° 3.6 mm: H: 92°; V: 45°; D: 110°					Built-in MIC	Yes
Iris Control		Fixed					Audio Compression	G.711a; G.711Mu; PCM; G.726
Close Focus	Distance	2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (5.58 ft)					Alarm	
	Lens	Detect	Observe	Recognize	Identify		Alarm Event	No SD card; SD card full; SD card error; network
DORI Distance	2.8 mm	63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)	6.4 m (21.00 ft)			disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception
	3.6 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)		Network	
Intelligen	ce						Network Port	RJ-45 (10/100 Base-T)
IVS (Perimet	ter Protection)	classification	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: 2960 × 1668@(1–20 fps)/2688 × 1520@(1–25/30 fps)					Browser	IE Chrome Firefox
Video Frame Rate		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.					Management Software	Smart PSS; DSS; DMSS
							Mobile Client	iOS; Android
to the total end			Supuci	,.				

Wiz Sense | DH-IPC-HDW2549TM-S-IL

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

	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: 2.2 W (12 VDC); 2.9 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + warm light intensity + IVS): 4.6 W (12 VDC): 5.4 W (PoE)	

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °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	0.62 kg (1.37 lb)

Ordering Information				
Туре	Model	Description		
5MP Camera	DH-IPC-HDW2549TM-S-IL	5MP Smart Dual Light 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



PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



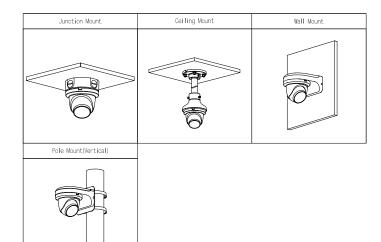
PFM321D 12 VDC 1A Power Adapter



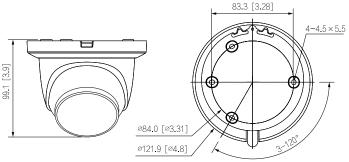
PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])



Rev 002.00

© 2023 Dahua. All rights reserved. Design and specifications are subject to change without notice.

The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.