



DH-IPC-HDW2249T-S-IL

2MP 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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light/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).
- · 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-colo

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				Smart Codec	Smart H.265+; Smart H.264+			
Camera							Video Frame Rate	Main stream: 1920 × 1080@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30
Image Sensor		1/2.8" CMOS						fps) *The values above are the max. frame rates of each
Max. Resolution		1920 (H) × 1080 (V)					stream; for multiple streams, the values will be subjected to the total encoding capacity.	
ROM		128 MB					Stream Capability	2 streams
RAM		128 MB					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Scanning Syst	tem	Progressive					Resolution	(352 × 288/352 × 240)
Electronic Sh	utter Speed	Auto/Manual	1/3 s-1/100,0	000 s			Bit Rate Control	CBR/VBR
Min. Illumina	tion		6 (Color, 30 IF 1.6 (B/W, 30 II ator on)				Video Bit Rate	H.264: 32 kbps–6144 kbps; H.265: 12 kbps–6144 kbps
S/N Ratio		>56 dB					Day/Night	Auto (ICR)/Color/B/W
•		up to 30 m (98.43 ft) (IR); up to 30 m (98.43 ft) (Warm					BLC	Yes
Illumination [Distance	light)			, (HLC	Yes
Illuminator O	n/Off Control	Auto; Manua	I				WDR	120 dB
Illuminator N	umber	1 (IR LED); 1 (Warm light)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Pan/Tilt/Rota	ation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Gain Control	Auto; Manual
Lens		Notation: 0 –300					Noise Reduction	3D NR
Lens Type		Fixed-focal					Motion Detection	OFF/ON (4 areas, rectangular)
Lens Mount		M12					Region of Interest (RoI)	Yes (4 areas)
Focal Length		2.8 mm; 3.6 mm					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)
Max. Apertur	re	F1.6					Mirror	Yes
Field of View		2.8 mm: H: 107°; V: 56°; D: 127°					Privacy Masking	4 areas
Iris Control		3.6 mm: H: 88°; V: 44°; D: 105° Fixed				Audio		
Close Focus D	Distance	2.8 mm: 0.7 m (2.30 ft)					Built-in MIC	Yes
Close i ocus L		3.6 mm: 1.3 r					Audio Compression	G.711a; G.711Mu; PCM; G.726
	Lens	Detect	Observe	Recognize	Identify		Alarm	
DORI	2.8 mm 3.6 mm	43.9 m (144.03 ft) 58.9 m (193.24 ft)	17.5 m (57.41 ft) 23.6 m (77.43 ft)	8.8 m (28.87 ft) 11.8 m (38.71 ft)	4.4 m (14.44 ft) 5.9 m (19.35 ft)		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; SMD; voltage detection; security exception
Distance		Il (Detect, Observe, Recognize, Identify) is a standard system 2676-4) for defining the ability of a person viewing the video to					Network	
		rsons or object not reflect intell					Network Port	RJ-45 (10/100 Base-T)
		tion distances, refer to installation and commissioning manual/ ect design tool.					SDK and API	Yes
Intelligence Intrusion, tripwire (the two functions support the				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P			
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					User/Host	6 (Total bandwidth: 36 M)
Video		videos					Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
		H.264H; H.265; H.264; H.264B; MJPEG (Only supported					Browser	IE; Chrome; Firefox
Video Compression		by the sub stream)					Management Software	DSS;DMSS

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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; 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: 1.6 W (12 VDC); 1.9 W (PoE) Max. (H.265 + intelligence + WDR + warm light): 3.8 W (12 VDC): 4.4 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)		
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	0.51 kg (1.12 lb)		

Ordering Information

Туре	Model	Description
2MP camera	DH-IPC-HDW2249T-S-IL	2MP Smart Dual Light 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

Optional:



PFA13G Junction Box



PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



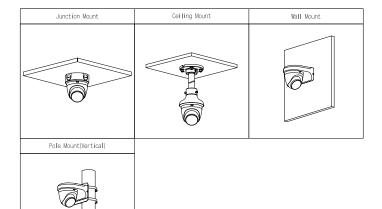
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

