



DH-IPC-HDW2449T-S-IL

4MP Smart Dual Light Fixed-focal Eyeball 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.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@20 fps, and supports 2560 × 1440 @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-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	4M (2688 × 1520); 3.6M (2560 × 1440); 3M (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		1/2.9" CMOS						
Max. Resolution		2688 (H) × 1520 (V)				Dia Data Cautual		
ROM		128 MB				Bit Rate Control	CBR/VBR H.264: 32 kbps-6144 kbps;	
RAM		128 MB				Video Bit Rate	H.265: 12 kbps-6144 kbps	
Scanning System		Progressive				Day/Night	Auto(ICR)/Color/B/W	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				BLC	Yes	
Min. Illumination		0.006 lux@F1.6 (Color, 30 IRE) 0.0006 lux@F1.6 (B/W, 30 IRE)				HLC	Yes	
	wiiii. iiidiiiiiddoll		ator on)	,		WDR	120 dB	
S/N Ratio	S/N Ratio		18 /13 ft) (IR): ur	to 30 m (98 /	3 ft) (Warm	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Illumination	Distance	up to 30 m (98.43 ft) (IR); up to 30 m (98.43 ft) (Warm light)				Gain Control	Auto;Manual	
Illuminator C	n/Off Control	Auto; Manual				Noise Reduction	3D NR	
Illuminator N	lumber	1 (IR LED); 1 (Warm light)				Motion Detection	OFF/ON (4 areas, rectangular)	
Pan/Tilt/Rota	ation Range	Pan: 0°–360° Tilt: 0°–78°				Region of Interest (RoI)	Yes (4 areas)	
Lens		Rotation: 0°–360°				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	
Lens Type		Fixed-focal				Mirror	Yes	
Lens Mount						Privacy Masking	4 areas	
Focal Length		2.8 mm; 3.6 mm				Audio	Audio	
Max. Aperture		F1.6				Built-in MIC	Yes	
Field of View		2.8 mm: H: 95°; V: 52°; D: 114° 3.6 mm: H: 78°; V: 41°; D: 94°				Audio Compression	G.711a; G.711Mu; PCM; G.726	
Iris Control		Fixed				Alarm		
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft); 3.6 mm: 1.6 m (5.25 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;	
	Lens	Detect	Observe	Recognize	Identify		voltage detection; security exception	
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 (20.99 ft)	Network		
Distance	3.6 mm	85.4 m	34.2 m	17.1 m	8.5 m	Network Port	RJ-45 (10/100 Base-T)	
		(280.18 ft)	(112.20 ft)	(56.10 ft)	(27.89 ft)	SDK and API	Yes	
Intelligence IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP	
		human)				Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				User/Host	6 (Total bandwidth: 36 M)	
Video		Videos				Storage	FTP; SFTP; Micro SD card (support max. 256 GB)	
Video Compression		H.264H; H.265; H.264; H.264B; MJPEG (Only supported by the sub-stream)				Browser	IE; Chrome; Firefox	
Smart Codec		by the sub stream) Smart H.265+; Smart H.264+				Management Software	DSS; DMSS	
S.Hai t Coucc		Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@				Mobile Client	iOS; Android	
Video Frame Rate		(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.				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	

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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: 2.1 W (12 VDC); 2.5 W (PoE) Max. (H.265 + intelligence + WDR + warm light): 4.4 W (12 VDC); 5.2 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 Type Model Description 4MP 4MP Smart Dual Light Fixed-focal DH-IPC-HDW2449T-S-IL camera Eyeball WizSense Network Camera PFA13G Junction Box PFB205W-E Wall Mount Bracket PFA152-E Pole Mount Bracket PFA109 Mount Adapter Accessories (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



PFA130-E Water-proof Junction Box



PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



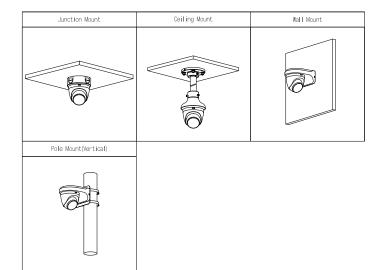
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

