

DH-IPC-HDW2449T-S-PV

4MP Smart Dual Light Active Deterrence 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

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

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.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@20 fps, and 4 MP (2560 × 1440)@25/30 fps by default.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED and warm light, and the max. IR illumination distance is 30 m, 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; built-in speaker; support two-way talk.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- Sound and light alarm.
- SMD Plus.
- · One-tap arming/disarming.



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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

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		1/2.9" CMOS				
Max. Resolution		2688 (H) × 1520 (V)				
ROM		128 MB				
RAM		128 MB				
Scanning System		Progressive				
Electronic Sh	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>56 dB				
Illumination Distance		Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm Light)				
Illuminator On/Off Control		Auto; Manual				
Illuminator Number		1 (IR LED); 1 (Warm light)				
Angle Adjustment		Pan: 0°–360°; Tilt: 0°–78°; Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Lens Mount		M12				
Focal Length		2.8 mm;3.6 mm				
Max. Apertu	Max. Aperture		F1.0			
Field of View		2.8 mm: H: 101.6°; V: 54.8°; D: 122.1° 3.6 mm: H: 84°; V: 45.6°; D: 98.9°				
Iris Control	Iris Control		Fixed			
Close Focus Distance		2.8 mm: 1.4 m (4.59 ft);3.6 mm: 2.0 m (6.56 ft)				
	Lens	Detect	Observe	Recognize	Identify	
	2.8 mm	63.8 m (209.32 ft)	25.5 m (83.66 ft)	12.8 m (41.99 ft)	6.4 m (21.00 ft)	
DORI	3.6 mm	77.8 m (255.25 ft)	31.1 m (102.03 ft)	15.6 m (51.18 ft)	7.8 m (25.59 ft)	
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.					
Intelligen	ce					

Video Frame Rate	Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@ (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.		
Stream Capability	2 streams		
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)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Auto/Manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (Rol)	Yes (4 areas)		
Smart Illumination	Yes		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Built-in MIC	Yes, built-in Mic		
Built-in Speaker	Yes, built-in speaker		
Audio Compression	G.711a; G.711Mu; G.726; PCM		
Alarm			
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		
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; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; NFS; P2P; auto registration		
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI		
User/Host	6 (Total bandwidth: 36 M)		
Storage	FTP; SFTP; Micro SD card (support max. 256 GB)		
Browser	IE; Chrome; Firefox		

Smart PSS Lite; DSS; DMSS

Ige

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)			
SMD	SMD Plus			
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos			
Video				
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)			
Smart Codec	Smart H.265+; Smart H.264+			

Management Software

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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;Generatio and importing of X.509 certification		
Certification			
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU		
Power			
Power Supply	12 VDC/PoE		
Power Consumption	Basic: 2 W (12 VDC), 2.6 W (PoE) Max. (H.265 + intelligence on + WDR + IR intensity + warm light deterrence + speaker): 8.6 W (12 VDC), 10.1 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: Plastic		
Product Dimensions	103.5 mm × Φ109.9 mm (4.07" × Φ4.33")		
Net Weight	0.39 kg (0.86 lb)		
Gross Weight	0.57 kg (1.26 lb)		

Ordering Information

Туре	Model	Description	
4MP Camera	DH-IPC-HDW2449T-S-PV	4MP Smart Dual Light Active Deterrence Fixed-focal Eyeball WizSense Network Camera	
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	

Accessories

PFA13G

Junction Box

PFA109

Mount adapter

Optional:





PFB205W-E

Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFB220C Ceiling Mount



Bracket

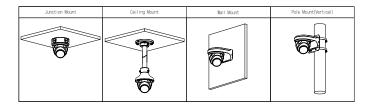
12 VDC 1 A Power Adapter



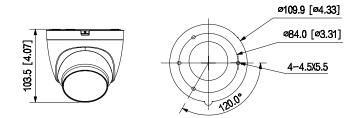
PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card

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Dimensions (mm[inch])



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