

DH-IPC-HDW2549T-S-PV

5MP Smart Dual Light Active Deterrence 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

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.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 \times 1688)@20 fps, and 4 MP (2688 \times 1520)@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.

Technical Specification								Main stream: 2960 × 1668@(1–20 fps)/2688 × 1520@(1-25/30 fps);
Camera							Video Frame Rate	(1-25/30 lps); sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30 fps);
Image Sensor		1/2.7" CMOS						*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Max. Resolution		2960 (H) × 1688 (V)					Stream Capability	to the total encoding capacity. 2 streams
ROM		128 MB						5M (2960 × 1668); 4.6M (2880 × 1620); 4M (2688 ×
RAM		256 MB					Resolution	1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704
Scanning System		Progressive						× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumination		0.006 lux@F1.0 (Color, 30 IRE) 0.0006 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
S/N Ratio		>56 dB					Day/Night	Auto(ICR)/Color/B/W
Illumination	Distance	Up to 30 m (98.43 ft) (IR)					BLC	Yes
Illuminator C	n/Off Control	Up to 30 m (98.43 ft) (Warm Light)					HLC	Yes
		Auto; Manual					WDR	120 dB
Illuminator Number		1 (IR LED); 1 (Warm light) Pan: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Angle Adjustment		Tilt: 0°–78° Rotation: 0°–360°					Gain Control	Auto/Manual
Lens							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					Smart Illumination	Yes
Max. Aperture		F1.0					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Field of View		2.8 mm: H: 111.0°; V: 58.5°; D: 136.0° 3.6 mm: H: 91.9°; V: 48.7°; D: 107.7°					Mirror	Yes
Iris Control		Fixed					Privacy Masking	4 areas
Close Focus I	Distance	2.8 mm: 1.4m (4.59 ft); 3.6 mm: 2.0m (6.56 ft)					Audio	
	Lens	Detect	Observe	Recognize	Identify		Built-in MIC	Yes, built-in Mic
	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)		Built-in Speaker	Yes, built-in speaker
	3.6 mm	77.8 m	31.1 m	15.6 m	7.8 m		Audio Compression	G.711a; G.711Mu; G.726; PCM
DORI Distance	3.0 11111	(255.25 ft)	(102.03 ft)	(51.18 ft)	(25.59 ft)		Alarm	
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						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
	commissionin	ning manual/project design tool.					Network	
Intelligence							Network Port	RJ-45 (10/100 Base-T)
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					SDK and API	Yes
SMD		human) SMD Plus Work together with Smart NVR to perform refine					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; P2P; PPPoE; Bonjour; auto registration
Smart Search		intelligent search, event extraction and merging to event videos					Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI
Video							User/Host	20 (Total bandwidth: 48 M)
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)					Storage	FTP; SFTP; NAS; Micro SD card (support max. 256 GB)
Smart Codec		Smart H.265+; Smart H.264+					Browser	IE; Chrome; Firefox

Wiz Sense | DH-IPC-HDW2549T-S-PV

Management Software	Smart PSS Lite; DSS; DMSS		
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;Firmware encryption;Generation 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: 2.2 W (12 VDC), 2.9 W (PoE) Max. (H.265 + intelligence on + WDR + IR intensity+ warm light deterrence+speaker): 8.8 W (12 VDC), 10.4 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: 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)		

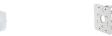
Ordering Information Model Description Type 5MP Smart Dual Light Active 5MP DH-IPC-HDW2549T-S-PV Deterrence Fixed-focal Eyeball Camera WizSense Network Camera PFA13G Junction Box PFB205W-E Wall Mount Bracket PFA152-E Pole Mount Bracket PFA109 Mount Adapter Accessories (Optional) PFB220C Ceiling Mount Bracket PFM321D 12 VDC 1A Power Adapter PFM900-E Integrated Mount Tester TF-P100 MicroSD Memory Card

Accessories

Optional:







PFA13G Junction Box

PFB205W-E Wall Mount Bracket

PFA152-E Pole Mount Bracket



PFA109 Mount adapter



PFB220C Ceiling Mount Bracket



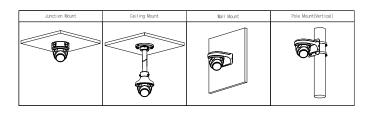
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

