

# DH-IPC-HDW2449T-S-PV

# 4MP 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.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688  $\times$  1520)@20 fps, and 4 MP (2560  $\times$  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.

#### 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.

Smart Codec

Smart H.265+; Smart H.264+

Technical	Specification	on						Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@ (1–25/30 fps);
Camera							Video Frame Rate	sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480@(1-30 \text{ fps})$ ;
Image Sensor		1/2.9" CMOS						*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Max. Resolution 2688 (H) × 1520 (V)		Stream Capability	to the total encoding capacity.  2 streams					
ROM		128 MB					Stream capasiney	4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2304 ×
RAM		128 MB					Resolution	1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 ×
Scanning System		Progressive						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		0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
S/N Ratio	S/N Ratio		,				Day/Night	Auto(ICR)/Color/B/W
Illumination	Illumination Distance		98.43 ft) (IR)				BLC	Yes
		Up to 30 m (98.43 ft) (Warm Light)					HLC	Yes
Illuminator (	Illuminator On/Off Control		I				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	Lens Type						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	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)
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°					Mirror	Yes
Iris Control		Fixed					Privacy Masking	4 areas
Close Focus	Close Focus Distance		m (4.59 ft);3.6	mm: 2.0 m (6.5	56 ft)		Audio	
	Lens	Detect	Observe	Recognize	Identify		Built-in MIC	Yes, built-in Mic
	2.8 mm	63.8 m	25.5 m	12.8 m	6.4 m		Built-in Speaker	Yes, built-in speaker
	2.0 111111	(209.32 ft)	(83.66 ft)	(41.99 ft)	(21.00 ft)		Audio Compression	G.711a; G.711Mu; G.726; PCM
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)		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.						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
	For intelligent function distances, refer to installation and commissioning manual/project design tool.						Network	
Intelligen	ce						Network Port	RJ-45 (10/100 Base-T)
		Intrusion, tripwire (the two functions support the					SDK and API	Yes
IVS (Perimet	IVS (Perimeter Protection)		and accurate o	letection of ve	hicle and		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
55	SIVID		er with Smart N	IVR to perform	refine		Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI
Smart Search	Smart Search				erging to event		User/Host	6 (Total bandwidth: 36 M)
Video	Video						Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
Video Comp	ression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)					Browser	IE; Chrome; Firefox

Management Software

Smart PSS Lite; DSS; DMSS

# Wiz Sense | DH-IPC-HDW2449T-S-PV

Mobile Client	iOS;Android	
Security	Trusted execution; Digest; Security logs; WSSE; Account lockout; Syslog; 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	
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 × Ф109.9 mm (4.07" × Ф4.33")	
Net Weight	0.39 kg (0.86 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			
	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			

0.57 kg (1.26 lb)

#### 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



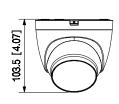
PFM900-E Integrated Mount Tester

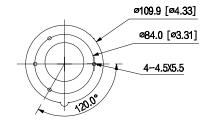


TF-P100 MicroSD Memory Card

Junction Mount	Ceiling Mount	Wall Mount	Pole Mount(Vertical)
6			

# Dimensions (mm[inch])





Gross Weight