

# DH-IPC-HDW3449H-AS-PV

4MP Smart Dual Illumination 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**

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its AI Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Acupick, and AI SSA (AI Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

#### **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.

## **SMD 4.0**

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

#### **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.

### **One-tap Disarming**

Dahua One-tap Disarming function, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage through mobile App, which meets multi-scenarios needs.

- \* The parameters and datasheets below can only be applied to 3449-PV-S5 series.
- 4-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED; the max. IR illumination distance is 30 m and warm light distance is 30 m.
- ROI, SMART H.264+/H.265+, AI 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), stay detection, loitering detection; face detection (full image).
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 512 G Micro SD card; buit-in dual Mic; 1-ch speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- · Sound and light alarm (red and blue lights).
- SMD 4.0.
- Supports AI SSA and one-tap arming and disarming.
- SMD area can be set in warm light areas that support triggering alarms.













#### 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						AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.
Camera							Work together with Smart NVR to perform refine
Image Sensor		1/2.7" CMOS				Smart Search	intelligent search, event extraction and merging to event videos
Max. Resolution		2688 (H) × 1520 (V)				Video	
ROM		256 MB				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
RAM		1 G				Al Coding	AI H.265; AI H.264 *Includes smart codec technology, Smart H.265+ and Smart H.264+
Scanning System		Progressive					
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Main stream: 2688 × 1520@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30
Min. Illumination		0.0003 lux@F 0 lux (Illumina	1.0 (Color, 30 IR 1.0 (B/W, 30 IR ator on)			Video Frame Rate	fps) Third stream: 1920 × 1080@(1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total providing repeats to
S/N Ratio		>56 dB Up to 30 m (98.43 ft) (IR)				Stream Capability	to the total encoding capacity.  3 streams
Illumination Distance		Up to 30 m (98.43 ft) (IK) Up to 30 m (98.43 ft) (Warm light)				Stream Capability	4M (2688 × 1520/2560 × 1440); 3M (2304×1296/2048
Illuminator On/Off Control Illuminator Number		Auto;Manual  1 (IR LED); 1 (Warm light)				Resolution	× 1536); 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/ABR
Angle Adjustment		Tilt: 0°–78° Rotation: 0°–360°				Video Bit Rate	H.264: 3 kbps–16384 kbps; H.265: 3 kbps–16384 kbps
Lens		5.16				Day/Night	Auto(ICR)/Color/B/W
Lens Type		Fixed-focal				BLC	Yes
Lens Mount		M12				HLC	Yes
Focal Length		2.8 mm; 3.6 mm				WDR	120 dB
Max. Aperture Field of View		F1.0  2.8 mm: H: 101°; V: 53°; D: 120°  3.6 mm: H: 82°; V: 44°; D: 96°				Scene Self-adaptation (SSA)	Yes
Iris Control		Fixed				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)				Gain Control	Auto
	Lens	Detect		Recognize	Identify	Noise Reduction	3D NR
	2.8 mm	66.0 m	26.4 m	13.2 m	6.6 m	Motion Detection	OFF/ON (4 areas, rectangular)
DORI		(216.54 ft) 78.0 m	(86.61 ft) 22.2 m	(43.31 ft) 15.6 m	(21.65 ft) 7.8 m	Region of Interest (RoI)	Yes (4 areas)
Distance	3 h mm	(255.91 ft)	(102.36 ft)	(51.18 ft)	(25.59 ft)	Smart Illumination	Yes
	*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.					Defog	Yes
						Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)
Intelligence						Mirror	Yes
IVS (Perimete	IVS (Perimeter Protection)		wire (the two t and accurate d			Privacy Masking	4 areas
		human), stay detection, loitering detection				LDC	Yes
Face Detection (Full Image)		Face detection; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.				Audio	
						Built-in MIC	Yes
SMD		SMD 4.0				Built-in Speaker	Yes Max power consumption: 2 W; max sound level at 10 cm: 110 dB
AcuPick		Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded				Audio Compression	* Test results from laboratory PCM; G.711a; G.711Mu; G.726; G.723
		videos to quickly locate targets.					

Alarm							
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; stay detection; loitering detection; face detection (full image); scene changing; audio detection; voltage detection; external alarm; 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; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP; P2P						
Interoperability	ONVIF (Profile S; Profile G;Profile T); CGI						
User/Host	20 (Total bandwidth: 64 M)						
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS						
Browser	IE: IE 9/11 Chrome Firefox						
Management Software	SmartPSS Lite; DSS; DMSS						
Mobile Client	iOS;Android						
Security	Digest;WSSE;Account lockout;Security logs;IP/ MAC filtering;Generation and importing of X.509 certification;syslog; HTTPS;802.1x;Trusted boot;Trusted execution;Trusted upgrade						
Certification							
Certifications	CE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B						
Port							
Audio Input	1 channel (RCA port)						
Audio Output	1 channel (RCA port)						
Alarm Input	1 channel in: wet contact, 5 mA 3–5 VDC						
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC						
Power							
Power Supply	12 VDC; PoE						
Power Consumption	Basic: 3.7 W (12 VDC); 4.8 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.3 W (12 VDC); 8.8 W (PoE)						
Environment							
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)						
Operating Humidity	≤95%						
Protection	IP67						
Structure							
Casing Material	Metal						
Product Dimensions	Φ122.0 mm × 110.9 mm (4.80" × Φ4.37")						
Net Weight	0.75 kg (1.65 lb)						
Gross Weight	0.92 kg (2.03 lb)						
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Ordering Information						
Туре	Model	Description				
4MP Camera	DH-IPC-HDW3449H-AS-PV	4MP Smart Dual Light Active Deterrence Fixed-focal Eyeball WizSense Network Camera				
	PFA137	Junction Box				
	PFB2203W	Wall Mount Bracket				
	PFA109	Mount Adapter				
Accessories	PFB220C	Ceiling Mount Bracket				
(Optional)	PFA152-E	Pole Mount Bracket				
	PFM321D	12 VDC 1A Power Adapter				
	PFM900-E	Integrated Mount Teste				
	TF-P100	MicroSD Memory Card				

# Accessories

# Optional:







PFA137 Junction Box

PFB2203W Wall Mount Bracket

PFA109 Mount Adapter







PFB220C Ceiling Mount Bracket

PFA152-E Pole Mount Bracket

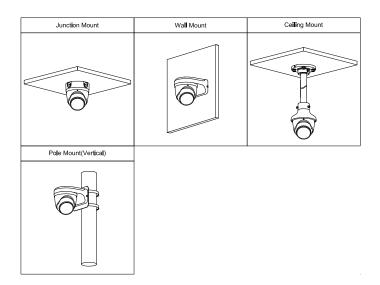
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 Integrated Mount Tester



# Dimensions (mm[inch])

