



DH-IPC-HDW3449H-ZAS-PV

4MP Smart Dual Light Active Deterrence Vari-focal Dome 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.

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

- 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 50 m and warm light distance is 40 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; built-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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification							Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event	
Camera							Video		
Image Sensor		1/2.7" CMOS						H.265; H.264; H.264H; H.264B; MJPEG (only supported	
Max. Resolution		2688 (H) × 1520 (V)					Video Compression	by sub stream)	
ROM		256 MB					Al Coding	AI H.265; AI H.264 *Includes smart codec technology, Smart H.265+ and Smart H.264+	
RAM		1 GB						Main stream: 2688 × 1520@(1–25/30 fps)	
Scanning System		Progressive					Video Frame Rate	Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						Third stream: $1920 \times 1080@(1-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multple streams, the values will be subjected to the total encoding capacity.	
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)							
S/N Ratio		>56 dB					Stream Capability	3 streams	
Illumination Distance		Up to 50 m (164.64 ft) (IR) Up to 40 m (131.23 ft) (Warm light)					Resolution	4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296/2048 × 1536); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Illuminator On/Off Control		Auto;Manual					Bit Rate Control	CBR/VBR/ABR	
Illuminator Number		2 (IR LED); 2 (Warm light) Pan: 0°–360°					Video Bit Rate	H.264: 3 kbps–16384 kbps H.265: 3 kbps–16384 kbps	
Angle Adjust	ment	Tilt: 0°–78° Rotation: 0°–360°					Day/Night	Auto(ICR)/Color/B/W	
Lens							BLC	Yes	
Lens Type		Motorized vari-focal					HLC	Yes	
Lens Mount		ф16					WDR	120 dB	
Focal Length		2.7 mm–13.5 mm					Scene Self-adaptation (SSA)	Yes	
Max. Aperture		F1.0					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Field of View		H: 103°-33° V: 54°-18° D: 124°-38°					Gain Control	Auto/Manual	
Iris Control		Fixed					Noise Reduction	3D NR	
Close Focus Distance		1.5 m (4.92 ft)					Motion Detection	OFF/ON (4 areas, rectangular)	
	Lens	Detect	Observe	Recognize	Identify		Region of Interest (RoI)	Yes (4 areas)	
DORI Distance	W	65.2 m (213.91 ft)	26.1 m (85.63 ft)	13.0 m (42.65 ft)	6.5 m (21.33 ft)		Image Stabilization	Electronic Image Stabilization (EIS)	
	Т	186.6 m (612.20 ft)	74.6 m (244.75 ft)	37.3 m (122.38 ft)	18.7 m (61.35 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					Defog	Yes	
	distinguish pe						Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower)	
	function distances, refer to installation and commissioning manual/ project design tool.						Mirror	Yes	
Intelligence						Privacy Masking	4 areas		
IVS (Perimeter Protection)			owire (the two				Audio		
		classification and accurate detection of vehicle and human), stay detection, loitering detection					Built-in MIC	Yes, built-in dual Mic	
Face Detection (Full Image)			Face detection; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face snapshot				Built-in Speaker	Yes, built-in speaker	
		set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization					Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
SMD		snapshot); face angle filter; optimization time setting. SMD 4.0					Alarm		
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 videos to quickly locate targets.					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;	
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions						defocus detection; external alarm; SMD; security exception	

Network Port	RJ-45 (10/100 Base-T)				
SDK and API	Yes				
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMI 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: Electromagnetc Compatbility Directve 2014/3 EU				
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 (802.3af)				
Power Consumption	Basic: 4 W (12 VDC); 5 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.5 W (12 VDC); 10.6 W (PoE)				
Environment					
Operating Temperature	-30 °C to +60 °C (−22 °F to +140 °F)				
Operating Humidity	≤95% (RH), non-condensing				
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)				
Storage Humidity	≤95% (RH), non-condensing				
Protection	IP67				
Structure					
Casing Material	Metal				
Product Dimensions	127.6 mm × Φ122.0 mm (5.02" × Φ4.80")				
Net Weight	0.885 kg (1.95 lb)				
Gross Weight	1.060 kg (2.34 lb)				

Ordering Information							
Туре	Model	Description					
4MP Camera	DH-IPC-HDW3449H-ZAS-PV	4MP Smart Dual Light Active Deterrence Fixed-focal Eyeball WizSense Network Camera					
	PFA137	Junction Box					
	PFB205W-E	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

PFB205W-E Wall Mount Bracket

PFA109 Ceiling Mount Bracket



PFB220C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



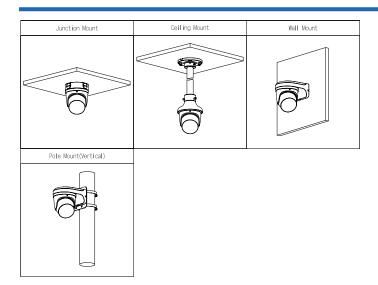
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

