



# DH-IPC-HDBW3449R1-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 max 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, video tampering, 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 MICs; 1-ch speaker; Support two-way talk.
- 12 VDC/PoE power supply, easy for installation.
- IP67,IK10 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, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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						Creart Coareh	Work together with Smart NVR to perform refine
Camera						Smart Search	intelligent search, event extraction and merging to event videos
Image Senso	Image Sensor 1/2.7" CMOS				Video		
Max. Resolution		2688 (H) × 1520 (V)				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)
ROM		256 MB					AI H.265; AI H.264
RAM		1 GB				Al Coding	*Includes smart codec technology, Smart H.265+ and Smart H.264+
Scanning System		Progressive					Main stream: 2688 × 1520@ (1 fps-25/30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps) Third stream:1920 × 1080@ (1 fps-25/30 fps)
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				Video Frame Rate	
Min. Illumination			0 (Color, 30 IF 1.0 (B/W, 30 If ator on)			video France Nate	*The values above are the max. frame rates of each stream; for multple streams, the values will be subjected to the total encoding capacity.
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)					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				Resolution	
Illuminator Number		2 (IR LED); 2 (Warm light) Pan: 0°-360°				Bit Rate Control	CBR/VBR/ABR
Angle Adjustment		Tilt: 0°–90° Rotation: 0°–360°				Video Bit Rate	H.264:3 kbps–16384 kbps H.265:3 kbps–16384 kbps
Lens						Day/Night	Auto(ICR)/Color/B/W
Lens Type		Motorized vari-focal				BLC	Yes
Lens Mount		ф16				HLC	Yes
Focal Length  Max. Aperture		2.7 mm-13.5 mm F1.0				WDR	120 dB
		H: 103°–33° V: 54°–18°				Scene Self-adaptation	Yes
Field of View		D: 124°–38°				(SSA)	Auto; natural; street lamp; outdoor; manual; regional
Iris Control		Fixed				White Balance	custom
Close Focus Distance		1.5 m (4.92 ft)				Gain Control	Auto/Manual
	Lens	Detect 65.2 m	Observe 26.1 m	Recognize 13.0 m	Identify 6.5 m	Noise Reduction	3D NR
	W	(213.91 ft) 186.6 m	(85.63 ft) 74.6 m	(42.65 ft) 37.3 m	(21.33 ft) 18.7 m	Motion Detection	OFF/ON (4 areas, rectangular)
DORI Distance	T ************************************	(612.20 ft)	(244.75 ft)	(122.38 ft)	(61.35 ft)	Region of Interest (RoI)	Yes (4 areas)
Distance	(EN-62676-4)	t, Observe, Reco	ability of a pe	rson viewing t	he video to	Image Stabilization	Electronic Image Stabilization (EIS)
	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.					Smart Illumination	Yes
						Defog	Yes
Intelligence  IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
143 (remineter Flotection)		human), stay detection, loitering detection				Mirror	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.				Privacy Masking	4 areas
						Audio	
SMD		SMD 4.0				Built-in MIC	Yes; built-in dual Mic
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.				Built-in Speaker	Yes; built-in speaker Max power consumption: 2 W; max sound level at 10 cm: 110 dB * Test results from laboratory

Audio Compression

G.711a; G.711Mu; PCM; G.726; G.723

Adopt deep learning algorithms to adjust the parameters

of the image to suit the conditions.

AI SSA

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; defocus detection; external alarm; SMD; security exception				
RJ-45 (10/100 Base-T)				
Yes				
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				
ONVIF (Profile S; Profile G; Profile T); CGI				
20 (Total bandwidth: 64 M)				
FTP; SFTP; Micro SD card (support max. 512 GB); NAS				
IE: IE 9/11 Chrome Firefox				
SmartPSS Lite; DSS; DMSS				
iOS;Android				
Digest;WSSE;Account lockout;Security logs;IP/MAC filtering;Generation and importing of X.509 certif ication;syslog;HTTPS;802.1x;Trusted boot;Trusted execution;Trusted upgrade				
Certification				
CE-LVD: EN 62368-1; CE-EMC: Electromagnetc Compatbility Directve 2014/30/EU				
1 channel (RCA port)				
1 channel (RCA port)				
1 channel in: wet contact, 5 mA 3–5 VDC				
1 channel out: wet contact, 300 mA 12 VDC				
12 VDC/PoE (802.3af)				
Basic: 2.8 W (12 VDC); 3.6 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 7.9 W (12 VDC); 9.2 W (PoE)				
−30 °C to +60 °C (−22 °F to +140 °F)				
≤95% (RH), non-condensing				
-40 °C to +60 °C (-40 °F to +140 °F)				
≤95% (RH), non-condensing				
IP67; IK10				
Metal				
105 mm × Φ126.0 mm (4.13" × Φ4.96")				
0.73 kg (1.61 lb)				
0.75 Kg (1.01 lb)				

Ordering Information							
Туре	Model	Description					
4MP Camera	DH-IPC-HFW3449R1-ZAS-PV	4MP Smart Dual Light Active Deterrence Vari-focal Dome WizSense Network Camera					
	PFA197R	Junction Box					
	PFB2203W	Wall Mount Bracket					
	DH-PFB305W	Wall Mount Bracket					
	PFA156	Pole Mount Bracket					
Accessories	DH-PFA151	Corner Mount Bracket					
(Optional)	PFA109	Ceiling Mount Bracket					
	PFB220C	Ceiling Mount Bracket					
	PFM321D	12 VDC 1A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					

### Accessories

### Optional:







PFB2203W Wall Mount Bracket



DH-PFB305W Wall Mount Bracket



PFA156 Pole Mount Bracket



DH-PFA151 Corner Mount Bracket



PFA109 Ceiling Mount Bracket



PFB220C Ceiling Mount Bracket



PFM321D 12 VDC 1A Power Adapter

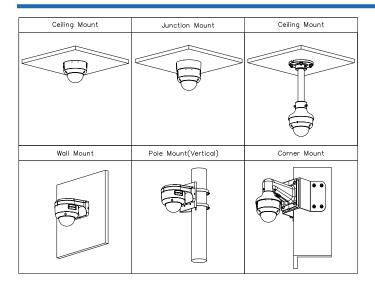


PFM900-E Integrated Mount Tester



TF-P100 Integrated Mount Tester

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## Dimensions (mm[inch])

