

# DH-IPC-HDBW3449R1-ZAS-PV

4MP Smart Dual Light Active Deterrence Vari-focal Dome 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 3 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 warm 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 warm light is off and the IR illuminator is on, which reduces light pollution efficiently.

#### **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.

- 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 function support the classification and accurate detection of vehicle and human).
- 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. 256 G Micro SD card; built-in dual Mic; built-in speaker; support two-way talk.
- · 12 VDC/PoE power supply.
- IP67, IK10 protection.
- · Sound and light alarm (red and blue lights).
- SMD 4 0
- · One-tap arming/disarming through alarm input.













#### **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.

#### **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, 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  $\pm 30\%$  (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification						Smart Codec	Smart H.265+; Smart H.264+
Camera						AI Coding	AI H.265; AI H.264
Image Sensor		1/2.7" CMOS				Video Frame Rate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity
Max. Resolution		2688 (H) × 1520 (V)					
ROM		128 MB					
RAM		512 MB					
Scanning System		Progressive				Stream Capability	3 streams  4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296);
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Resolution	1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)				Bit Rate Control	CBR/VBR H.264: 3 kbps-8192 kbps
S/N Ratio		>56 dB				Video Bit Rate	H.265: 3 kbps–8192 kbps
Illumination	Distance	Up to 50 m (164.04 ft) (IR)				Day/Night	Auto (ICR)/Color/B/W
		Up to 40 m (131.23 ft) (warm light)				BLC	Yes
Illuminator On/Off Control		Auto/Manual				HLC	Yes
Illuminator N	lumber	2 (IR LED) 2 (warm light)				WDR	120 dB
Angle Adjust	Angle Adjustment					Scene Self-adaptation	Yes
Lens			360°			White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Type		Motorized vari-focal				Gain Control	Auto; manual
Mount Type		ф16				Noise Reduction	3D NR
Focal Length			mm			Motion Detection	OFF/ON (4 areas)
Max. Aperture		F1.0				Region of Interest (RoI)	Yes (4 areas)
max. Aperture		Horizontal: 103°–33°				Image Stabilization	Electronic Image Stabilization (EIS)
Field of View		Vertical: 54°–18° Diagonal: 124°–38°				Smart Illumination	Yes
Iris Type		Fixed				Defog	Yes
Close Focus Distance		1.5 m (4.92 ft)				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
	Lens	Detect	Observe	Recognize	Identify	Mirror	Yes
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)	Privacy Masking	4 areas
Distance	Т	186.6 m	74.6 m	37.3 m	18.7 m	Audio	
		(612.20 ft)	(244.75 ft)	(122.38 ft)	(61.35 ft)	Built-in Mic	Yes, built-in dual Mic
Professional, intellige		Tripwire; intrusion (support the classification and				Built-in speaker	Yes, built-in speaker
IVS (Perimeter Protection)		accurate detection of vehicle and human)				Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
SMD 4.0		Less false alarm, longer detection distance				Alarm	
Quick Pick Smart Search		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events  Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; defocus
Smart Seditii		videos				Maturaul	detection; external alarm; SMD; security exception
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.				Network	DL 45 (40/400 D. T)
Video						Network	RJ-45 (10/100 Base-T)
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported				SDK and API	Yes

 $\mbox{H.265; H.264; H.264H; H.264B; MJPEG}$  (only supported by the sub stream)

Video Compression

Cyber Security	Video encryption; firmware encryption; configuration encryption; 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				
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMP; P2P				
Interoperability	ONVIF (Profile S;Profile G;Profile T); CGI				
User/Host	20 (Total bandwidth: 72 M)				
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS				
Browser	IE: IE8/9/11 Chrome Firefox				
Management Software	SmartPSS Lite; DSS; DMSS				
Mobile Phone	iOS; Android				
Certification					
Certification	CE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14				
Port					
Audio Input	1 channel (RCA port)				
Audio Output	1 channel (RCA port)				
Alarm Input	1 channel in: 5 mA 3V–5 VDC				
Alarm Output	1 channel out: 300 mA 12 VDC				
Power					
Power Supply	12 VDC/PoE (802.3af)				
Power Consumption	Basic: 3.3 W (12 VDC); 4.7 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 7.7 W (12 VDC); 9 W (PoE)				
Environment					
Operating Conditions	$-30~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–22 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F})/\text{Less}$ than 95% RH				
Storage Conditions	-40 °C to +60 °C (-40 °F to +140 °F)				
Protection Grade	IP67, IK10				
Structure					
Casing	Metal				
Dimensions	105 mm × Φ126.0 mm (4.13" × Φ4.96")				
Net Weight	0.73 kg (1.61 lb)				
Gross Weight	0.9 kg (1.98 lb)				

Ordering Information							
Туре	Model	Description					
4MP	DH-IPC-HDBW3449R1- ZAS-PV	4MP Smart Dual Light Active Deterrence Vari-focal Dome WizSense Network Camera					
Camera	IPC-HDBW3449R1-ZAS-PV	4MP Smart Dual Light Active Deterrence Vari-focal Dome WizSense Network Camera					
	PFA197R	Junction Box					
	PFB206W	Wall Mount					
	PFA156	Pole Mount					
Accessories	PFA109	Ceiling Mount Bracket					
(Optional)	PFB220C	Ceiling Mount Bracket					
	PFM321D	12 VDC 1A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	TLC SD Card					

## Accessories

## Optional:







PFB206W Wall Mount



PFA156 Pole Mount



PFA109 Ceiling Mount Bracket



PFB220C Ceiling Mount Bracket



PFM321D 12 VDC 1A Power Adapter

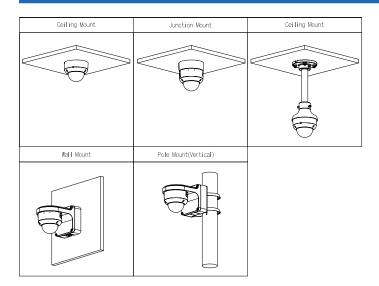


PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card

## Wiz Sense | DH-IPC-HDBW3449R1-ZAS-PV



## Dimensions (mm[inch])

