

# DH-IPC-HDBW3449R1-ZAS-PV

4MP Smart Dual Illumination 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 Illuminators**

Dahua Smart Dual Illuminators 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 MICs; 1-ch 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-click 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 works normal 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.

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Technical Specification							Smart Codec	Smart H.265+; Smart H.264+
Camera		16 20 20 20 20					AI Coding	Al H.265; Al H.264  Main straam: 2598 x 1530@(1 fpc, 20 fpc)
Image Sensor		1/2.7" CMOS						Main stream: 2688 × 1520@(1 fps-30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps)
Max. Resolution		2688 (H) × 1520 (V)					Video Frame Rate	Third stream:1920 × 1080@(1 fps–30 fps)  *The values above are the max. frame rates of each
ROM		128 MB						stream; for multiple streams, the values will be subjected to the total encoding capacity
RAM		512 MB					Stream Capability	3 streams
Scanning System		Progressive						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		50 m (164.04 ft) (IR)					Day/Night	Auto (ICR)/Color/B/W
		40 m (131.23 ft) (warm light)					BLC	Yes
Illuminator On/Off Control		Auto/Manual					HLC	Yes
Illuminator Number		2 (IR LED) 2 (warm light)					WDR	120 dB
Pan/Tilt/Rot	ation Range	Pan: 0°-360° Tilt: 0°-90°					Scene Self-adaptation	Yes
Lens		Rotation: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Type		Motorized vari-focal					Gain Control	Auto; manual
Mount Type		φ16					Noise Reduction	3D NR
Focal Length		2.7 mm-13.5 mm					Motion Detection	OFF/ON (4 areas)
Max. Aperture		F1.0					Region of Interest (RoI)	Yes (4 areas)
ivian. Apei tule		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	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688 \times 1520$ resolution and lower)
	Lens	Detect	Observe	Recognize	Identify		Mirror	Yes
DORI	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
Professional, intellige							Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
IVS (Perimeter Protection)		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)					Alarm	
SMD 4.0		Less false alarm, longer detection distance					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events						detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Network	
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.					Network	RJ-45 (10/100 Base-T)
Video		or the image to suit the conditions.					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				
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone				
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	Smart PSS; 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 Illumination Active Deterrence Vari-focal Dome WizSense Network Camera					
Camera	IPC-HDBW3449R1-ZAS-PV	4MP Smart Dual Illumination 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:



PFA197R

Junction Box





PFB206W Wall Mount

PFA156 Pole Mount



PFA109

Ceiling Mount Bracket









PFM321D 12 VDC 1A Power Adapter

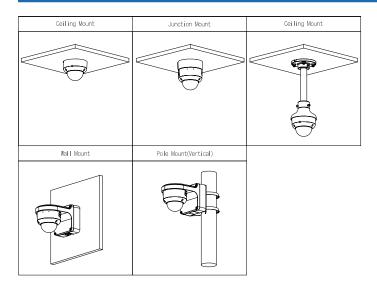






TF-P100 TLC SD Card

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



# Dimensions (mm[inch])

