

# DH-IPC-HDBW3549R1-ZAS-PV

5MP Smart Dual Illumination 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**

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. • 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.

- Outputs max. 5 MP (2960 × 1668)@20 fps and supports 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				AI Coding	AI H.265; AI H.264			
Camera Image Sensor Max. Resolution ROM			1/2.7" CMOS 2960 (H) × 1668 (V) 128 MB					Video Frame Rate	Main stream: 2960 × 1668@(1 fps-20 fps)/2688 × 1520 @(1 fps-30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps) Third stream: 1920 × 1080@(1 fps-30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
1	RAM		512 MB					Stream Capability	3 streams
	Scanning Syst Electronic Sh		Progressive Auto/Manual 1/3 s–1/100,000 s					Resolution	5M (2960 × 1668/2880 × 1620); 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
1	Min. Illumina	tion	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
	S/N Ratio		>56 dB					Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
1	Illumination (	Distance	50 m (164.04 ft) (IR)					Day/Night	Auto (ICR)/Color/B/W
	Illuminator O	n/Off Control	40 m (131.23 ft) (warm light) Auto/Manual					BLC	Yes
			2 (IR LED)					HLC	Yes
	Illuminator Number Pan/Tilt/Rotation Range		2 (warm light)					WDR	120 dB
1			Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Scene Self-adaptation	Yes
	Lens							White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
I	Lens Type		Motorized vari-focal					Gain Control	Auto; manual
1	Mount Type		φ16					Noise Reduction	3D NR
1	Focal Length		2.7 mm-13.5 mm F1.0					Motion Detection	OFF/ON (4 areas)
1	Max. Apertu	re						Region of Interest (RoI)	Yes (4 areas)
	Field of View		Horizontal: 113°–36° Vertical: 57°–20°					Image Stabilization	Electronic Image Stabilization (EIS)
			Diagonal: 137°–40°					Smart Illumination	Yes
	Iris Type		Fixed					Defog	Yes
(	Close Focus E	lose Focus Distance Lens		1.5 m (4.92 ft) Detect Observe Recognize Identify				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
DO Dis			65.2 m	26.1 m	13.0 m	6.5 m		Mirror	Yes
	Distance	W	(223.91 ft)	(85.63 ft)	(42.65 ft)	(21.33 ft)		Privacy Masking	4 areas
		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)		Audio	
	rofessional, intelligent							Built-in MIC	Yes
1	IVS (Perimete	er Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
	SMD 4.0	MD 4.0		Less false alarm, longer detection distance				Alarm	

Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to even videos	
AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.	
Video		
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	
Smart Codec	Smart H.265+; Smart H.264+	

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 detection; external alarm; SMD; security exception	
Network		
Network	RJ-45 (10/100 Base-T)	
SDK and API	Yes	

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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 °C to +60 °C (–22 °F to +140 °F)/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			
5MP	DH-IPC-HDBW3549R1- ZAS-PV	5MP Smart Dual Illumination Active Deterrence Vari-focal Dome WizSense Network Camera			
Camera	IPC-HDBW3549R1-ZAS-PV	5MP 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			
	РҒМ900-Е	Integrated Mount Tester			
	TF-P100	TLC SD Card			

#### Accessories

#### Optional:



Junction Box



Wall Mount



PFA156 Pole Mount



PFA109 Ceiling Mount Bracket



PFM321D 12 VDC 1A Power Adapter

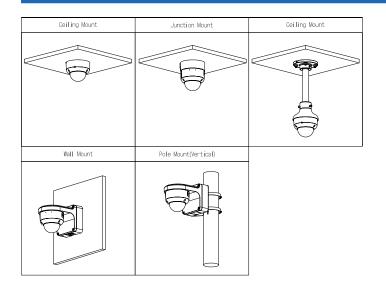


PFM900-E Integrated Mount Tester

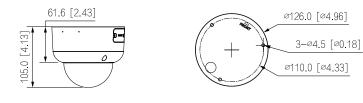
(256<sub>GB</sub> ⊎42) ™22 ¥30 ™22 ¥30 ►

TF-P100 TLC SD Card

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#### Dimensions (mm[inch])



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