

DH-IPC-HDBW3549R1-ZAS-PV

5MP 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

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. 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 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 ±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								Main stream: 2960 × 1668@(1 fps-20 fps)/2688 × 1520
Image Sensor		1/2.7" CMOS					Video Frame Rate	@(1 fps-30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1
Max. Resolution		2960 (H) × 1668 (V)						fps—30 fps) 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						5M (2960 × 1668/2880 × 1620); 4M (2688 × 1520/2560
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					Resolution	× 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Min. Illumina	ation	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
Illumination Distance		Up to 50 m (164.04 ft) (IR) Up to 40 m (131.23 ft) (warm light)					Day/Night	Auto (ICR)/Color/B/W
Illuminator C)n/Off Control	Auto/Manual					BLC	Yes
Illuminator N			2 (IR LED)				HLC	Yes
Illuminator Number		2 (warm light)					WDR	120 dB
Angle Adjust	Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Scene Self-adaptation	Yes
Lens							White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Type		Motorized va	Motorized vari-focal				Gain Control	Auto; manual
Mount Type		ф16					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)
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 I	Distance Lens	1.5 m (4.92 ft Detect	:) Observe	Recognize	Identify		Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower)
DORI Distance		65.2 m	26.1 m	13.0 m	6.5 m		Mirror	Yes
	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	
Profession			Built-in Mic	Yes, built-in dual Mic				
IVS (Perimeter Protection)		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)					Built-in speaker	Yes, built-in speaker
SMD 4.0		Less false alarm, longer detection distance					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets					Alarm	
Smart Search		that users are interested in from SMD events Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					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
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.					Network	

Video Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)

Smart H.265+; Smart H.264+



Smart Codec

Video

Network

RJ-45 (10/100 Base-T)

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SDK and API	Yes				
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 °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 Light Active Deterrence Vari-focal Dome WizSense Network Camera					
Camera	IPC-HDBW3549R1-ZAS-PV	5MP 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					
	РҒМ900-Е	Integrated Mount Tester					
	TF-P100	TLC SD Card					

Accessories

Optional:







PFA197R Junction Box

PFB206W Wall Mount

PFA156 Pole Mount



PFM321D 12 VDC 1A Power Adapter



PFA109 Ceiling Mount Bracket



PFM900-E Integrated Mount Tester



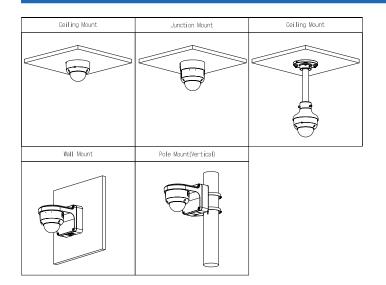
PFB220C

Ceiling Mount Bracket

TF-P100 TLC SD Card



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Dimensions (mm[inch])

