



DH-IPC-HDBW3549R1-ZAS-PV

5MP 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

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

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 × 1668) @20 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. 512 G Micro SD card; built-in dual Mic; 1-ch speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 and 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.













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.

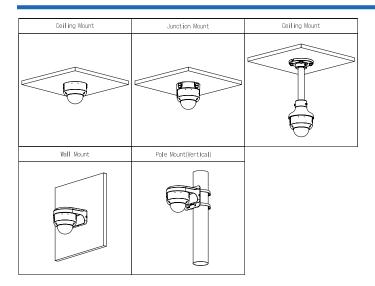
IK10+: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 100 cm (Impact energy is 50J). Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification							Video			
Camera							Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)		
Image Sensor		1/2.7" CMOS					Smart Codec	Smart H.265+; Smart H.264+		
Max. Resolution		2960 (H) × 1668 (V)					Al Coding	Al H.265; Al H.264		
ROM		256 MB						Main stream: 2880 × 1620/2960 × 1668@(1–20 fps)/2688 × 1520 @(1–30 fps) Sub stream: 704 × 576@(1 fps–25 fps)/704 × 480@(1 fps–30 fps) Third stream: 1920 × 1080@(1 fps–25/30 fps) *The values above are the max. frame rates of each		
RAM		1 GB								
Scanning System		Progressive					Video Frame Rate			
Electronic Shutter Speed		Auto/Manual 1/3 s=1/100,000 s						stream; for multple streams, the values will be subjected to the total encoding capacity		
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Stream Capability			
S/N Ratio		>56 dB						5M (2880 × 1620/2960 × 1668); 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)		
Illumination Distance		Up to 50 m (164.64 ft) (IR) Up to 40 m (131.23 ft) (Warm light)					Resolution			
Illuminator On/Off Control		Auto;Manual					Bit Rate Control	CBR/VBR/ABR		
Illuminator Number		2 (IR LED); 2 (Warm light)					Video Bit Rate	H.264:3 kbps-16384 kbps H.265:3 kbps-16384 kbps		
Angle Adjust	ment	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Day/Night	Auto(ICR)/Color/B/W		
Lens							BLC	Yes		
Lens Type	Lens Type		ri-focal				HLC	Yes		
Lens Mount	Lens Mount						WDR	120 dB		
Focal Length	1	2.7 mm-13.5 mm					Scene Self-adaptation (SSA)	Yes		
Max. Apertu	Max. Aperture						White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Field of View	Field of View						Gain Control	Auto/Manual		
Iris Control		Fixed					Noise Reduction	3D NR		
Close Focus Distance		1.5 m (4.92 ft)					Motion Detection	OFF/ON (4 areas, rectangular)		
	Lens	Detect	Observe	Recognize	Identify		Region of Interest (RoI)	Yes (4 areas)		
	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)		Image Stabilization	Electronic Image Stabilization (EIS)		
DON	Т	186.6 m	74.6 m	37.3 m	18.7 m		Smart Illumination	Yes		
DORI Distance		(612.20 ft)	(244.75 ft)	(122.38 ft)	(61.35 ft)	5 ft)	Defog	Yes		
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to 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.						Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)		
							Mirror	Yes		
Intelligence				Privacy Masking	4 areas					
			Intrusion, tripwire (the two functions support the				Audio			
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)					Built-in MIC	Yes, built-in dual Mic		
SMD		SMD 4.0					Built-in Speaker	Yes, built-in speaker		
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.;(Some Models)					Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723		
							Alarm			
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.					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		
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos								

videos

Network		Ordering Information					
Network Port	RJ-45 (10/100 Base-T)	Туре	Model	Descr	ription		
OK and API Yes ID.M. ID.G. HTTD: TCD: LIDD: APD: DTD: DTSD: DTCD: DTMD:		5MP Camera	DH-IPC-HDBW3549 ZAS-PV	Deter	Smart Dual Light Active rence Vari-focal Dome ense Network Camera		
Network Protocol	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		PFA197R		on Box		
Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI		PFB206W	Wall	Mount		
User/Host 20 (Total bandwidth: 64 M)			PFA156	Pole N	Mount		
Storage FTP; SFTP; Micro SD card (support max. 512 GB); NAS		Accessories	PFA109	Ceilin	g Mount Bracket		
Browser	IE: IE 9/11 Chrome Firefox	(Optional)	PFB220C PFM321D		g Mount Bracket C 1A Power Adapter		
Management Software	SmartPSS Lite; DSS; DMSS		PFM900-E	Integr	Integrated Mount Tester		
Mobile Client	iOS;Android		TF-P100	TLC SI	D Card		
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	Accessories					
Certification		Optional:					
Certifications	CE-LVD: EN 62368-1; CE-EMC: Electromagnetc Compatbility Directve 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B				0 =		
Port		PFA197F	1	PFB206W	PFA156		
Audio Input	1 channel (RCA port)	Junction B	ox Wal	l Mount Bracket	Pole Mount Bracket		
Audio Output	1 channel (RCA port)						
Alarm Input	1 channel in: wet contact, 5 mA 3–5 VDC			Ţ			
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC						
Power							
Power Supply	12 VDC/PoE (802.3af)	PFA109 Ceiling Mount I	Bracket Ceilir	PFB220C ng Mount Bracket	PFM321D 12 VDC 1A Power Adapt		
Power Consumption	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)						
Environment		altua		(a)hua			
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)			256 _{GB} U 42			
Operating Humidity	≤95% (RH), non-condensing	PFM900-	F	TF-P100			
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	Integrated Mou		ng Mount Bracket			
Storage Humidity	≤95% (RH), non-condensing						
Protection	IP67; IK10						
Structure							
Casing Material	Metal						
Product 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)						

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Dimensions (mm[inch])

