



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 functions support the classification and accurate detection of vehicle and human), stay detection, loitering detection; face detection (full image).
- · 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.













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.

Technical Specification						Sm	nart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event
Camera						Vic	ideo	videos
Image Sensor		1/2.7" CMOS						H.265; H.264; H.264H; H.264B; MJPEG (only supported
Max. Resolution		2960 (H) × 1668 (V)				Vid	deo Compression	by sub stream)
ROM		256 MB				AI (Coding	AI H.265; AI H.264 *Includes smart codec technology, Smart H.265+ and Smart H.264+
RAM		1 GB						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
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual	l 1/3 s-1/100,0	00 s		Vid	Video Frame Rate	fps-30 fps) Third stream: 1920 × 1080@(1 fps-25/30 fps)
Min. Illumination			1.0 (Color, 30 IF F1.0 (B/W, 30 II ator on)				*The values above are the max. frame rates of each stream; for multple streams, the values will be subjected to the total encoding capacity	
S/N Ratio		>56 dB				Stre	ream Capability	3 streams
Illumination Distance			131.23 ft) (War	m light)		Res	Resolution	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)
Illuminator On/Off Control		Auto;Manual				Bit	t Rate Control	240) CBR/VBR/ABR
Illuminator Number		2 (IR LED); 2 (deo Bit Rate	H.264:3 kbps–16384 kbps
Angle Adjust	ment	Pan: 0°–360° Tilt: 0°–90°						H.265:3 kbps–16384 kbps
Lens		Rotation: 0°–360°					ay/Night	Auto(ICR)/Color/B/W
		Materized vari focal					.C	Yes
Lens Type		Motorized vari-focal					.C	Yes 120 dB
Lens Mount		ф16				WE	ene Self-adaptation	120 UB
Focal Length		2.7 mm-13.5 mm				(SS		Yes
Max. Aperture		F1.0 H: 113°–36°					hite Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Field of View		V: 57°-20° D: 137°-40°				Gai	ain Control	Auto/Manual
Iris Control		Fixed				Noi	oise Reduction	3D NR
Close Focus Distance		1.5 m (4.92 ft)				Мо	otion Detection	OFF/ON (4 areas, rectangular)
	Lens	Detect 65.2 m	Observe 26.1 m	Recognize 13.0 m	Identify 6.5 m	Reg	egion of Interest (RoI)	Yes (4 areas)
	W	(213.91 ft)	(85.63 ft)	(42.65 ft)	(21.33 ft)	Ima	nage Stabilization	Electronic Image Stabilization (EIS)
DORI	Т	186.6 m 74.6 m 37.3 m 18.7 m (612.20 ft) (244.75 ft) (122.38 ft) (61.35 ft)			Sm	nart Illumination	Yes	
Distance		*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/					efog	Yes
	this table do r						nage Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
project design		n tool.					irror	Yes
Intelligence Intrusion, tripwire (the two functions support the				ort the	Priv	ivacy Masking	4 areas	
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human), stay detection, loitering detection				Au	udio	
Face Detection (Full Image)		Face detection; snapshot; snapshot optimization; optimal				Bui	uilt-in MIC	Yes, built-in dual Mic
		face snapshot upload; face enhancement; face snapshot set as face or one-inch photo; snapshot strategies					uilt-in Speaker	Yes, built-in speaker
		(real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.				Aud	udio Compression	G.711a; G.711Mu; PCM; G.726; G.723
SMD		SMD 4.0				Ala	larm	
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)				Ala	arm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; stay detection; loitering detection; face detection (full image); 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					
Network Port	RJ-45 (10/100 Base-T)				
SDK and API	Yes				
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				
Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI				
User/Host	20 (Total bandwidth: 64 M)				
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS				
Browser	IE: IE 9/11 Chrome Firefox				
Management Software	SmartPSS Lite; DSS; DMSS				
Mobile Client	iOS;Android				
Security	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				
Certification					
Certifications	CE-LVD: EN 62368-1; CE-EMC: Electromagnetc Compatbility Directve 2014/30/EU				
Port					
Audio Input	1 channel (RCA port)				
Audio Output	1 channel (RCA port)				
Alarm Input	1 channel in: wet contact, 5 mA 3–5 VDC				
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC				
Power					
Power Supply	12 VDC/PoE (802.3af)				
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					
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)				
Operating Humidity	≤95% (RH), non-condensing				
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)				
Storage Humidity	≤95% (RH), non-condensing				
Protection	IP67; IK10				
Structure					
Casing Material	Metal				
Product Dimensions	105 mm × Ф126.0 mm (4.13"×Ф4.96")				
Net Weight	0.73 kg (1.61 lb)				
Gross Weight	0.9 kg (1.98 lb)				

Ordering Information							
Туре	Model	Description					
5MP Camera	DH-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					
	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					

Accessories

Optional:







PFA197R Junction Box

PFB206W Wall Mount Bracket

PFA156 Pole Mount Bracket





Ceiling Mount Bracket



PFB220C Ceiling Mount Bracket



PFM321D 12 VDC 1A Power Adapter

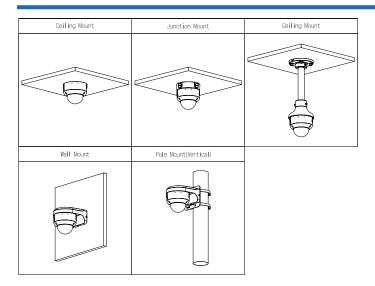


PFM900-E Integrated Mount Tester



TF-P100 Integrated Mount Tester

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Dimensions (mm[inch])

