

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

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

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.

- 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.
- \cdot 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; buit-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 3.0.
- · One-click arming/disarming through alarm input.













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.

AI H.265; AI H.264

AI Coding

Technical Specification								Main stream: 2960 × 1668@(1 fps-20 fps)/2688 × 1520
Camera	-							@(1 fps–30 fps) Sub stream: 704 × 576@(1 fps–25 fps)/704 × 480@(1
Image Sensor		1/2.7" CMOS					Video Frame Rate	fps—30 fps) Third stream: 1920 × 1080@(1 fps—30 fps) *The values above are the max. frame rates of each
Max. Resolution		2960 (H) × 1668 (V)						stream; for multiple streams, the values will be subjected to the total encoding capacity.
ROM		128 MB					Stream Capability	3 streams
RAM		512 MB						5M (2960 × 1668/2880 × 1620); 4M (2688 × 1520/2560
Scanning System		Progressive					Resolution	× 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 240)
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					Bit Rate Control	288/352 × 240) CBR/VBR
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)					Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
S/N Ratio		>56 dB					Day/Night	Auto (ICR)/Color/B/W
Illumination	Distance	50 m (164.04 ft) (IR)					BLC	Yes
Illuminator On/Off Control		40 m (131.23 ft) (warm light) Auto/Manual					HLC	Yes
		2 (IR LED)					WDR	120 dB
Illuminator Number		2 (warm light)					Scene Self-adaptation	Yes
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens							Gain Control	Auto; manual
Lens Type		Motorized vari-focal					Noise Reduction	3D NR
Mount Type		ф16					Motion Detection	OFF/ON (4 areas)
Focal Length		2.7 mm-13.5 mm					Region of Interest (RoI)	Yes (4 areas)
Max. Aperture		F1.0					Image Stabilization	Electronic Image Stabilization (EIS)
Field of View		Horizontal: 113°–36° Vertical: 57°–20°					Smart Illumination	Yes
		Diagonal: 137°–40°					Defog	Yes
Iris Type		Fixed					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Close Focus		1.5 m (4.92 ft)					Mirror	Yes
DON	Lens	Detect 65.2 m	Observe 26.1 m	Recognize 13.0 m	Identify 6.5 m		Privacy Masking	4 areas
DORI Distance	W	(223.91 ft)	(85.63 ft)	(42.65 ft)	(21.33 ft)		Audio	
	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)		Built-in MIC	Yes
Profession	nal, intellige	ent					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 3.0		Less false alarm, longer detection distance					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.						detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception
Video							Network	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Network	RJ-45 (10/100 Base-T)
Smart Codec		Smart H.265+; Smart H.264+					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			
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					
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					
	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



PFB220C Ceiling Mount Bracket



PFM321D 12 VDC 1A Power Adapter

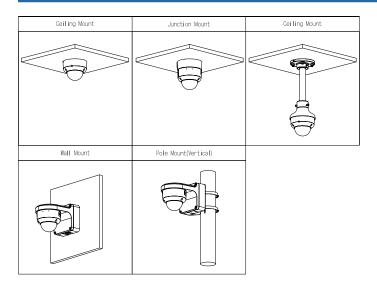


PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card

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Dimensions (mm[inch])

