



DH-IPC-HDW3549H-ZAS-PV

5MP Smart Dual Illumination Active Deterrence Vari-focal Eyeball 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 3549-PV-S5 series.

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

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.

Video **Technical Specification** H.265; H.264; H.264H; H.264B; MJPEG (only supported Camera Video Compression by sub stream) 1/2.7" CMOS **Image Sensor** Smart H.265+; Smart H.264+ Smart Codec 2960 (H) × 1668 (V) Max. Resolution AI Coding AI H.265; AI H.264 256 MB ROM Main stream: 2880 × 1620/2960 × 1668@(1-20 fps)/2688 × 1520 @(1-30 fps) RAM 1 GB Sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480@(1-30)$ Video Frame Rate Third stream: 1920 × 1080@(1-25/30 fps) Progressive Scanning System *The values above are the max. frame rates of each stream; for multple streams, the values will be subjected **Electronic Shutter Speed** Auto/Manual 1/3 s-1/100,000 s to the total encoding capacity 0.003 lux@F1.0 (Color, 30 IRE) Stream Capability 0.0003 lux@F1.0 (B/W, 30 IRE) Min. Illumination 0 lux (Illuminator on) 5M (2880 × 1620/2960 × 1668); 4M (2688 × 1520/2560 S/N Ratio >56 dB × 1440); 3M 2304 ×1296/2048 × 1536); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p(1280×720); D1 (704 × Resolution Up to 50 m (164.64 ft) (IR) 576/704 × 480); VGA (640 × 480); CIF (352 ×288/352 × Illumination Distance Up to 40 m (131.23 ft) (Warm light) 240) Illuminator On/Off Control Auto; Manual CBR/VBR/ABR Bit Rate Control 2 (IR LED); 2 (Warm light) H.264:3 kbps-16384 kbps Illuminator Number Video Bit Rate H.265:3 kbps-16384 kbps Pan: 0°-360° Angle Adjustment Tilt: 0°-78° Day/Night Auto(ICR)/Color/B/W Rotation: 0°-360° BLC Yes Lens HLC Yes Lens Type Motorized vari-focal WDR 120 dB Lens Mount ф16 Scene Self-adaptation 2 7 mm-13 5 mm Yes Focal Length (SSA) Auto; natural; street lamp; outdoor; manual; regional F1.0 Max. Aperture White Balance custom H: 113°-36° Field of View V: 57°-20° Gain Control Auto/Manual D: 137°-40° Noise Reduction Iris Control Fixed **Motion Detection** OFF/ON (4 areas, rectangular) Close Focus Distance 1.5 m (4.92 ft) Region of Interest (RoI) Yes (4 areas) Lens Detect Observe Recognize Identify Image Stabilization Electronic Image Stabilization (EIS) 65.2 m 13.0 m 26.1 m 6.5 m W (213.91 ft) (85.63 ft) (42.65 ft) (21.33 ft) **Smart Illumination** Yes 186 6 m 74.6 m 37 3 m 18.7 m Т DORI (612.20 ft) (244.75 ft) (122.38 ft) (61.35 ft) Defog Yes Distance *DORI (Detect, Observe, Recognize, Identify) is a standard system 0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 (EN-62676-4) for defining the ability of a person viewing the video to **Image Rotation** resolution and lower) distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent Mirror Yes function distances, refer to installation and commissioning manual/ project design tool. Privacy Masking 4 areas Intelligence Audio Intrusion, tripwire (the two functions support the IVS (Perimeter Protection) classification and accurate detection of vehicle and Built-in MIC Yes, built-in dual Mic human) Built-in Speaker Yes, built-in speaker SMD SMD 4.0 Uses deep learning algorithms and works with back-end **Audio Compression** G.711a; G.711Mu; PCM; G.726; G.723 devices to accurately match targets, such as people and AcuPick motor vehicles, and search through live and recorded Alarm videos to quickly locate targets Adopt deep learning algorithms to adjust the parameters No SD card; SD card full; SD card error; network AI SSA disconnection; IP conflict; illegal access; motion of the image to suit the conditions Alarm Event detection; video tampering; tripwire; intrusion; scene Work together with Smart NVR to perform refine

intelligent search, event extraction and merging to event

videos

Smart Search

changing; audio detection; voltage detection; defocus

detection; external alarm; SMD; security exception

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
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
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: 4 W (12 VDC); 5 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.5 W (12 VDC); 10.6 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
Structure	
Casing Material	Metal
Product Dimensions	127.6 mm × Φ122.0 mm (5.02" × Φ4.80")
Net Weight	0.885 kg (1.95 lb)
Gross Weight	1.060 kg (2.34 lb)

Ordering Information			
Туре	Model	Description	
5MP Camera	DH-IPC-HDW3549H-ZAS-PV	5MP Smart Dual Light Active Deterrence Fixed-focal Eyeball WizSense Network Camera	
Accessories (Optional)	PFA137	Junction Box	
	PFB205W-E	Wall Mount Bracket	
	PFA109	Mount Adapter	
	PFB220C	Ceiling Mount Bracket	
	PFA152-E	Pole Mount Bracket	
	PFM321D	12 VDC 1A Power Adapter	
	PFM900-E	Integrated Mount Teste	
	TF-P100	MicroSD Memory Card	

Accessories

Optional:







PFA137 Junction Box

PFB205W-E Wall Mount Bracket

PFA109 Ceiling Mount Bracket



PFB220C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



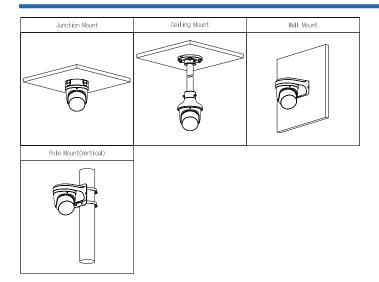
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 Ceiling Mount Bracket



Dimensions (mm[inch])

