

DH-IPC-HDW3449H-AS-PV-S3

4 MP Smart Dual Illumination Active Deterrence Fixed-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

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.

- 4 MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 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 30 m and warm light distance is 30 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 MICs; 1-ch speaker.
- 12 VDC/PoE power supply.
- IP67 protection.
- Sound and light alarm (red and blue lights).
- SMD 3.0.
- One press 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, 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.

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification					
Camera					
Image Sensor		1/2.7" CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s			
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)			
S/N Ratio		> 56 dB			
Illumination Distance		30 m (98.43 ft) (IR) 30 m (98.43 ft) (warm light)			
Illuminator On/Off Control		Auto; manual			
Illuminator Number		1 (IR LED) 1 (warm light)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm; 3.6 mm			
Field of View		2.8 mm: Horizontal: 101°× Vertical: 53°× Diagonal: 120° 3.6 mm: Horizontal: 82°× Vertical: 44°× Diagonal: 96°			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	66.0 m (216.54 ft)	26.4 m (86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)
	3.6 mm	78.0 m (255.91 ft)	31.2 m (102.36 ft)	15.6 m (51.18 ft)	7.8 m (25.59 ft)
Professional, intelligent					
IVS (Perimeter Protection)		Tripwire; intrusion (Support the classification and accurate detection of vehicle and human)			
SMD 3.0		Less false alarm, longer detection distance			
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.			
Video					
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)			
Smart Codec		Smart H.265+; Smart H.264+			
AI Coding		AI H.265; AI H.264			

Video Frame Rate	Main stream: 2688 × 1520@ (1 fps–30 fps) Sub stream: 704 × 576@(1 fps–25 fps)/704 × 480@(1 fps–30 fps) Third stream: 1920 × 1080@ (1 fps–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	
	Stream Capability	3 streams
	Resolution	4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
	Bit Rate Control	CBR/VBR
	Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
	Day/Night	Auto (ICR)/Color/B/W
	BLC	Yes
	HLC	Yes
	WDR	120 dB
	Scene Self-adaptation	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto; manual	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas)	
Region of Interest (RoI)	Yes (4 areas)	
Smart Illumination	Yes	
Defog	Yes	
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	
Mirror	Yes	
Privacy Masking	8 areas	
Audio		
Built-in MIC	Yes	
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723	
Alarm		
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; external alarm; SMD; security exception	
Network		
Network	RJ-45 (10/100 Base-T)	
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
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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: 1.75 W (12 VDC); 3.6 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 6.4W (12 VDC) 8.6 W (PoE)

Environment

Operating Conditions	–40 °C to +60 °C (–40 °F to +140 °F)/Less than 95% RH
Storage Conditions	–40 °C to +60 °C (–40 °F to +140 °F)
Protection Grade	IP67

Structure

Casing	Metal
Dimensions	110.9 mm × Φ122.0 mm (4.4" × Φ4.8")
Net Weight	745 g (163.1 lb)
Gross Weight	915 g (200.6 lb)

Ordering Information

Type	Model	Description
4MP Camera	DH-IPC-HDW3449H-AS-PV-S3	4 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera
	IPC-HDW3449H-AS-PV-S3	4 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera
Accessories (Optional)	PFA137	Junction Box
	PFB205W	Wall Mount Bracket
	PFA106+PFB220C	Ceiling Mount Bracket
	PFB205W+PFA152-E	Pole Mount Bracket
	PFM321D	12 VDC 1A Power Adapter
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender
	PFM900-E	Integrated Mount Tester
	PFM114	TLC SD Card

Accessories

Optional :



PFA137
Junction Box



PFB205W
Wall Mount Bracket



PFA106+PFB220C
Ceiling Mount Bracket



PFB205W+PFA152-E
Pole Mount Bracket



PFM321D
12 VDC 1A Power Adapter



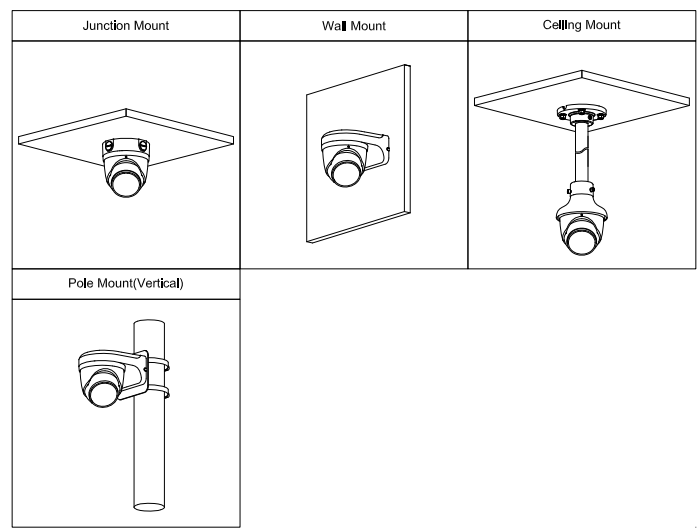
LR1002-1ET/1EC
Single-port Long Reach Ethernet over Coax Extender



PFM900-E
Integrated Mount Tester



PFM114
TLC SD Card



Dimensions (mm[inch])

