

DH-IPC-HDW3549H-AS-PV

5MP Full-color 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. In addition, with full-color technology, it provides a better image effect in the condition of low illuminance.

Functions

SMD Plus

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.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports 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.

- 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 5MP (2592 × 1944) @20 fps, and supports 4MP (2688 × 1520) @25/30 fps
- H.265 codec, high compression rate, low bit rate
- Built-in warm illuminator, and the max. illumination distance: 30 m
- ROI, SMART 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 detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Supports sound and light alarm linkage. When an alarm is triggered, the camera links sound alarm and light flashing.
- Supports one-tap disarming. You can disarm the events of alarm output, sending email, audio, and light in the configured period.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, built-in Mic and spearker
- · 12V DC/PoE power supply
- IP67 protection
- SMD Plus
- Red and blue flashlight alarm













Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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	on					Bit Rate Control	CBR/VBR
Camera							Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
Image Sensor		1/2.7" 5Megapixel progressive CMOS					Day/Night	Color/B/W
Max. Resolution		2592 (H) × 1944 (V)				BLC	Yes	
ROM	ROM		128 MB				HLC	Yes
RAM		512 MB					WDR	120 dB
Scanning System		Progressive					Scene Self-adaptation	Yes
Electronic Sh	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				(SSA) White Balance	Auto/natural/street lamp/outdoor/manual/regional
Min. Illumina	ation	0.003 Lux @ F1.0						custom Auto/Maguel
S/N Ratio		> 56 dB					Gain Control	Auto/Manual
Illumination	Distance	30 m (98.4 ft)					Noise Reduction	3D NR
Illuminator C	On/Off Control	Auto/Manual					Motion Detection	OFF/ON (4 areas)
Illuminator N	Number	1 (Warm light)					Region of Interest (RoI)	Yes (4 areas)
Pan/Tilt/Rot	ation Range	Pan: 0°–360° Tilt: 0°–78°					Smart Illumination Image Rotation	Yes 0°/90°/180°/270° (Support with 1080p resolution and
Lens	Lens		Rotation: 0°–360°				Mirror	lower) Yes
Lens Type		Fixed-focal					4 areas	
Mount Type		M12					Privacy Masking Audio	4 dieds
Focal Length		2.8 mm; 3.6 mm				Built-in MIC	Yes	
Max. Aperture		F1.0				Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723	
Field of View			2.8 mm: Horizontal 103° × Vertical 53° × Diagonal 122°				Alarm	1 CW, G.711a, G.711Wa, G.720, G.725
			3.6 mm: Horizontal 81° × Vertical 43° × Diagonal 95°				Aldilli	
Iris Type Close Focus	Distance	2.8 mm: 1.2 m (3.9 ft)						No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene
0.050 1 0000	Lens	3.6 mm: 2.1 r Detect	m (6.9 ft) Observe	Recognize	Identify		Alarm Event	changing, audio detection; voltage detection; external alarm; SMD; safety exception; light alarm; sound alarm (11 built-in sounds and custom voices importing)
DORI Distance	2.8 mm	67.4 m (221.1 ft)	27 m (88.6 ft)	13.5 m (44.3 ft)	6.7 m (22.0 ft)		Network	
	3.6 mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)		Network	RJ-45 (10/100 Base-T)
Profession	nal, intellige					SDK and API	Yes	
IVS (Perimet	er Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)					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
Intelligent Se	Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.				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
Video	Video							
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Interoperability	execution; trusted upgrade ONVIF (Profile S/Profile G/Profile T); CGI; Milestone;
Smart Codec		Smart H.265+/Smart H.264+					User/Host	Genetec; P2P 20 (Total bandwidth: 80 M)
Video Frame Rate		Main stream: 2592 × 1944 @1-20 fps 2688 × 1520 @1-25/30 fps Sub stream: 704 × 576 @1-25 fps/704 × 480 @ 1-20fps				Storage	FTP; SFTP; Micro SD card (support max. 256 G);NAS	
Stream Canability		Third stream: 1920 × 1080 @1-25/30 fps 3 streams				Browser	IE: IE8 and later	
Stream Capability		5M (2592 × 1944); 4M (2688 × 1520); 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 ×					Chrome Firefox Safari: Safari 12 and later	
Resolution		960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (354 × 288/354 × 240)				Management Software	Smart PSS; DSS; DMSS	

Wiz Sense | DH-IPC-HDW3549H-AS-PV

wiz Sense	DH-IPC-HDW3549H-AS-PV		
Mobile Phone	IOS; Android		
Certification			
Certification	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B		
Port			
Audio Input	1 channel (RCA port)		
Audio Output	1 channel (RCA port)		
Alarm Input	1 channel in: 5mA 3V–5V DC		
Alarm Output	1 channel out: 300mA 12V DC		
Power			
Power Supply	12V DC/PoE (802.3af)		
Power Consumption	Basic power consumption: 2.5W (12V DC); 3.0W (PoE) Max. power consumption (WDR + H.265 + red and blue lights flashing alternately + warm light + sound alarm): 7.3W (12V DC); 8.0W (PoE)		
Environment			
Operating Conditions	-40°C to $+60$ °C (-40 °F to $+140$ °F)/Less than 95% RH		
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)		
Protection Grade	IP67		
Structure			
Casing	Metal		
Dimensions	Φ122.0 mm × 110.9 mm (Φ4.8" × 4.4")		
Net Weight	754 g (1.7 lb)		
Gross Weight	915 g (2.0 lb)		

Ordering Information					
Туре	Model	Description			
	DH-IPC-HDW3549HP-AS-PV	5MP Full-color Active Deterrence Fixed-focal Eyeball WizSense Network Camera, PAL			
5MP	DH-IPC-HDW3549HN-AS-PV	5MP Full-color Active Deterrence Fixed-focal Eyeball WizSense Network Camera, NTSC			
Camera	IPC-HDW3549HP-AS-PV	5MP Full-color Active Deterrence Fixed-focal Eyeball WizSense Network Camera, PAL			
	IPC-HDW3549HN-AS-PV	5MP Full-color Active Deterrence Fixed-focal Eyeball WizSense Network Camera, NTSC			
	PFA137	Junction Box			
	PFB205W	Wall Mount			
Accessories (Optional)	PFB220C	Ceiling Mount			
	PFA152-E	Pole Mount			
	PFM321D	12V DC 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



PFB220C Ceiling Mount



PFA152-E Pole Mount



PFM321D 12V DC/1A Power Adapter



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



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

Junction Mount	Wa ll Mount	Celling Mount
Pole Mount(Vertical)		

Dimensions (mm[inch])



