

DH-IPC-HDW3549H-AS-PV-S3

5 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball 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. • 5 MP 1/2.7" CMOS image sensor, low luminance, and high definition image.

- Outputs max. 5 MP (2592 × 1944)@20 fps and supports 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; buit-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.

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Technical Specification								Main stream: 2592 × 1944@(1 fps-20 fps)/2688 × 1520 @(1 fps-30 fps)
Camera				Video Frame Rate	Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps) Third stream: 1920 × 1080@(1 fps-25/30 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.			
Image Sensor		1/2.7" CMOS					Video Frame Kate	
Max. Resolution		2592 (H) × 1944 (V)						
ROM		128 MB					Stream Capability	3 streams
RAM		512 MB					Resolution	5M (2592 × 1944); 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE)					Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
S/N Ratio		0 lux (illuminator on)					Day/Night	Auto (ICR)/Color/B/W
5/ IN Ratio		> 56 dB					BLC	Yes
Illumination Distance		30 m (98.43 ft) (IR) 30 m (98.43 ft) (warm light)					HLC	Yes
Illuminator On/Off Control		Auto; manual					WDR	120 dB
Illuminator N	Illuminator Number		:)				Scene Self-adaptation	Yes
		1 (warm light) Pan: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Pan/Tilt/Rot	ation Range	Tilt: 0°–78° Rotation: 0°–360°					Gain Control	Auto; manual
							Noise Reduction	3D NR
Lens							Motion Detection	OFF/ON (4 areas)
Lens Type		Fixed-focal					Region of Interest (RoI)	Yes (4 areas)
Mount Type		M12					Smart Illumination	Yes
Focal Length		2.8 mm; 3.6 mm					Defog	Yes
Field of View		 2.8 mm: Horizontal: 97°× Vertical: 70°× Diagonal: 128° 3.6 mm: Horizontal: 78°× Vertical: 58°× Diagonal: 102° 					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower)
Iris Type		Fixed					Mirror	Yes
Close Focus	Distance	2.8 mm: 1.5 r 3.6 mm: 2.2 r					Privacy Masking	8 areas
	Lens	Detect	Observe	Recognize	Identify		Audio	
DORI Distance	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)		Built-in MIC	Yes
	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)		Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Professio	nal, intellige		(102.001.0)	(01110111)	(20100 10)		Alarm	
IVS (Perimeter Protection)		Tripwire; intrusion (Support the classification and accurate detection of vehicle and human)					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; ovternal
SMD 3.0		Less false alarm, longer detection distance						changing; audio detection; voltage detection; external alarm; SMD; security exception
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					Network	
Video		videos.					Network	RJ-45 (10/100 Base-T)
Video							SDK and API	Yes

VIGEO	
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

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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

SDK and API

Cyber Security

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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: 1.86 W (12 VDC); 4.18 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 6.5 W (12 VDC) 8.8 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					
Туре	Model	Description			
5MP	DH-IPC-HDW3549H-AS- PV-S3	5 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera			
Camera	IPC-HDW3549H-AS-PV-S3	5 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera			
	PFA137	Junction Box			
	PFB205W	Wall Mount Bracket			
	PFA106+PFB220C	Ceiling Mount Bracket			
Accessories	PFA106+PFB220C	Pole Mount Bracket			
(Optional)	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 PFM321D Pole Mount Bracket 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester

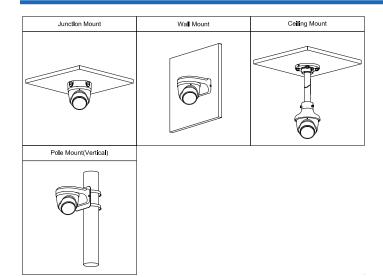
256 12

PFM114 TLC SD Card

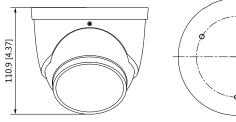
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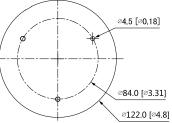
LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender

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Dimensions (mm[inch])





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