

DH-IPC-HDW3649H-AS-PV-PRO

6MP Smart Dual Light 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

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. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

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.

- 6-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 6 MP (3288 × 1850)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in multi-core light, the max. IR distance is 30 m and the max. 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. 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.













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 work normally after soaking in 1 m deep water for 30 minutes.

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.

Technical Specification							Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event
Camera							videos	
Image Sensor	r	1/1.8" CMOS					Video	
Max. Resolution		3288 (H) × 1850 (V)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
ROM		256 MB					Smart Codec	Smart H.265+; Smart H.264+
RAM		2 G					Al Coding	AI H.265 (Compression rate ≥25%) AI H.264 (Compression rate ≥25%)
Scanning System		Progressive						Main stream: 3288 × 1850@(1 fps-25/30 fps)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Frame Rate	Sub stream: $1920 \times 1080@(1-25/30 \text{ fps})$ Third stream: $1920 \times 1080@(1-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Min. Illumination		0.0005 Lux@F1.0 (Color, 30IRE) 0.0004 Lux@F1.0 (B/W, 30IRE) 0 lux (Illuminator on)						
S/N Ratio		>56 dB					Stream Capability	3 streams
Illumination Distance Illuminator On/Off Control		Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light) Auto;Manual					Resolution	6M (3288 × 1850/3200 × 1800); 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 100); CIS (1552 - 200/552 - 240)
Illuminator Number		2 (Multi-core (IR + warm) light)					Bit Rate Control	480); CIF (352 × 288/352 × 240) CBR/VBR/ABR
munimator Number		Pan: 0°–360°						H.264: 3 kbps–16384 kbps;
Angle Adjustment		Tilt: 0°-78° Rotation: 0°-360°					Video Bit Rate	H.265: 3 kbps–16384 kbps
Lens							Day/Night	Auto(ICR)/Color/B/W
Lens Type		Fixed-focal					BLC	Yes
Lens Mount		M16					HLC	Yes
Focal Length		2.8 mm; 3.6 mm					WDR	120 dB
Max. Aperture		F1.0					Scene Self-adaptation (SSA)	Yes
Field of View		2.8 mm: H: 109°; V: 59°; D: 131° 3.6 mm: H: 93; V: 50°; D: 111					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Iris Control		Fixed					Gain Control	Auto
Close Focus Distance		2.8 mm: 3.2 m (10.50 ft) 3.6 mm: 4.4 m (14.44 ft)					Noise Reduction	3D NR
	Lens	Detect	Observe	Recognize	Identify		Motion Detection	OFF/ON (4 areas, rectangular)
	2.8 mm	70.2 m	28.1 m	14.0 m	7.0 m		Region of Interest (RoI)	Yes (4 areas)
DON		(230.31 ft) 85.6 m	(92.19 ft) 34.3 m	(45.93 ft) 17.1 m	(22.97 ft) 8.6 m		Smart Illumination	Yes
DORI Distance	3.6 mm	(280.84 ft)	(112.53 ft)	(56.10 ft)	(28.22 ft)		Smart Dual Light	Yes
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or						Defog	Yes
	objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.						Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Intelligence							Mirror	Yes
IVS (Parimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					Privacy Masking	8 areas
IVS (Perimeter Protection)		human)					LDC	Yes
SMD		SMD 4.0					Audio	
AcuPick		Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and					Built-in MIC	Yes, built-in dual Mic
		motor vehicles, and search through live and recorded videos to quickly locate targets.					Built-in Speaker	Yes, built-in speaker
AISSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.					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; intensity change; voltage 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: IE11 Chrome Firefox		
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care		
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: Electromagnetic Compatibility Directive 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		
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.		
Power Consumption	Basic: 4.1 W (12 VDC); 6 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 8.2 W (12 VDC); 10 W (PoE)		
Environment			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤95%		
Protection	IP67		
Structure			
Casing Material	Metal		
Product Dimensions	Ф122.0 mm × 116.1 mm (4.80" × Ф4.57")		

Net Weight	0.8 kg (1.76 lb)
Gross Weight	1.0 kg (2.20 lb)

Ordering Information						
Туре	Model	Description				
6MP Camera	DH-IPC-HDW3649H-AS- PV-PRO	6MP Smart Dual Light Active Deterrence Fixed-focal Eyeball WizSense Network Camera				
	PFA137	Junction Box				
	PFB205W-E	Wall Mount Bracket				
	PFA109	Mount Adapter				
	PFB220C	Ceiling Mount Bracket				
Accessories	PFA152-E	Pole Mount Bracket				
(Optional)	PFM321-EN	DC12V1A Power Adapter				
	PFM321D-EN	DC12V1A Power Adapter				
	PFM320D-EN	DC12V2A Power Adapter				
	PFM900-E	Integrated Mount Teste				
	TF-P100	MicroSD Memory Card				

Accessories

Optional:



PFA137 Junction Box



PFB205W-E Wall Mount Bracket



PFA109 Mount Adapter







PFA152-E Pole Mount Bracket

PFM321-EN DC12V1A Power Adapter



PFB220C

Ceiling Mount Bracket

PFM321D-EN DC12V1A Power Adapter



PFM320D-EN 12 VDC 2A Power Adapter

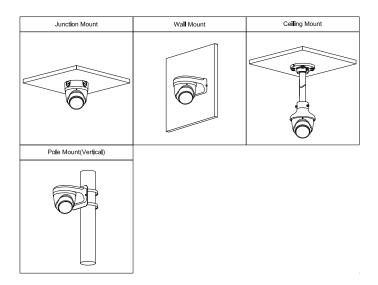


PFM900-E Integrated Mount Tester



TF-P100 Integrated Mount Tester





Dimensions (mm[inch])

