

DH-IPC-HFW2249T-ZAS-IL

2MP Smart Dual Light Vari-focal Bullet WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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 2 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

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.

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.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 2 MP (1920 × 1080)@25 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- Built-in multi-core light, the max. IR distance is 60 m and the max. warm light distance is 60 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 monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, 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 Mic.
- 12 VDC/PoE power supply, easy for installation.
- · IP67, IK10 (optional) protection.
- · SMD Plus.













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.

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							Video	
Camera	•						Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Image Sensor		1/2.8" CMOS					Smart Codec	Smart H.265+; Smart H.264+
Max. Resolution		1920 (H) × 1080 (V)					Video Frame Rate	Main stream: 1920 × 1080@(1–25/30 fps)
ROM		128 MB						sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 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
RAM		128 MB						
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Streaming Capability	2 streams
Min. Illumination		0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
S/N Ratio		> 56 dB					Bit Rate Control	VBR;CBR
Illumination Distance		Up to 60 m (196.85 ft) (IR) Up to 60 m (196.85 ft) (Warm light)					Video Bit Rate	H.264: 32 kbps–6144 kbps; H.265: 12 kbps–6144 kbps
Illuminator On/Off Control		Auto;Manual					Day/Night	Auto(ICR)/Color/B/W
Illuminator Number		4 (Multi-core (IR + warm) light)					BLC	Yes
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					HLC	Yes
							WDR	120 dB
Lens							White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Type		Motorized vari-focal					Gain Control	Auto/Manual
Lens Mount		ф14					Noise Reduction	3D NR
Focal Length		2.7 mm-13.5 mm					Motion Detection	OFF/ON (4 areas, rectangular)
Max. Aperture		F1.5					Region of Interest (RoI)	Yes (4 areas)
Field of View		H: 109°–30°; V: 56°–17°; D: 131°–35°					Smart Illumination	Yes
Iris Control		Fixed					Smart Dual Light	Yes
Close Focus Distance		0.8 m (2.62 ft)					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p
	Lens	Detect	Observe	Recognize	Identify		image notation	resolution and lower)
	W	44.1 m (144.69 ft)	17.7 m (58.07 ft)	8.8 m (28.87 ft)	4.4 m (14.4 ft)		Mirror	Yes
		144.8 m	57.9 m	29.0 m	14.5 m		Privacy Masking	4 areas
DORI	Т	(475.07 ft)	(189.96 ft)	(96.14 ft)	(47.57 ft)		Audio	
Distance	*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 objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation						Built-in MIC	Yes, built-in Mic
							Audio Compression	G.711a; G.711Mu; G.726; PCM
							Alarm	
and commissioning manual/project design tool. Intelligence Intrusion, tripwire (the two functions support the					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception		
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)					Network	
SMD		SMD Plus					Network Port	RJ-45 (10/100 Base-T)
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
							Interoperability	ONVIF (Profile S & Profile T & Profile G); CGI
							User/Host	6 (Total bandwidth: 36 M)

Storage	FTP; SFTP; Micro SD card (support max. 256 GB)				
Browser	IE Chrome Firefox				
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care				
Mobile Client	iOS;Android				
Security	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: EN62368-1; 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 (802.3af)				
Power Consumption	Basic: 2.6 W (12 VDC), 3.1 W (PoE); Max.: 10.2 W (12 VDC), 12.7 W (PoE) (H.265 + intelligence on+ WDR + warm light intensity)				
Environment					
Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)				
Operating Humidity	≤95% (RH), non-condensing				
Storage Temperature	−30 °C to +60 °C (−22 °F to +140 °F)				
Storage Humidity	≤95% (RH), non-condensing				
	\$95% (RH), non-condensing				
Protection	IP67; IK10 (optional)				
Protection					
Protection Structure	IP67; IK10 (optional)				
Protection Structure Casing Material	IP67; IK10 (optional) Metal 238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57")				

Ordering Information							
Туре	Model	Description					
IP CAMERA	DH-IPC-HFW2249T-ZAS-IL	2MP Smart Dual Light Vari-focal Bullet WizSense Network Camera					
	DH-PFA151	Corner Mount Bracket					
	DH-PFA130-E	Water-proof Junction Box					
	G3416GW	G3/4" Water Joint					
	DH-PFA152-E	Pole Mount Bracket					
Accessories (Optional)	DH-PFA135	Junction Box					
Accessories (Optional)	DH-PFM321-EN	DC12V1A power adapter					
	DH-PFM320D-EN	DC12V2A power adapter					
	PFM900-E	Integrated Mount Tester					
	DHI-TF-W100-256GB	MicroSD Card					
	DHI-TF-P100/256GB	MicroSD Card					

Accessories

Optional:







DH-PFA130-E Water-proof Junction Box

DH-PFA135 Junction Box

DH-PFA151 Corner Mount Bracket







DH-PFA152-E Pole Mount Bracket

DH-PFM320D-EN DC12V2A power adapter

DH-PFM321-EN DC12V1A power adapter







DHI-TF-P100/256GB MicroSD Card

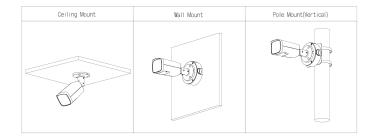
DHI-TF-W100-256GB MicroSD Card

G3416GW G3/4" Water Joint



PFM900-E Integrated Mount Tester





Dimensions (mm[inch])

