

DH-IPC-HFW2449T-ZAS-IL

4MP 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.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@20 fps, and supports 2560 ×1440 (2560 × 1440)@25/30 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.
- \cdot 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		1/2.9" CMOS					Smart Codec	Smart H.265+; Smart H.264+
Max. Resolution		2688 (H) × 1520 (V)					Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@	
ROM		128 MB						(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the max, frame rates of
RAM		128 MB					Video Frame Rate Streaming Capability	
Scanning System		Progressive						each stream; for multiple streams, the values will be
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						subjected to the total encoding capacity. 2 streams
Min. Illumination		0.006 lux@F1.5 (Color, 30 IRE) 0.0006 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)					Resolution	4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
S/N Ratio		> 56 dB					Bit Rate Control	(352 × 288/352 × 240) VBR;CBR
Illumination Distance		Up to 60 m (196.85 ft) (IR) Up to 60 m (196.85 ft) (Warm light)					Bit Rate Control	H.264: 32 kbps-6144 kbps;
Illuminator On/Off Control		Auto;Manual					Video Bit Rate	H.265: 12 kbps–6144 kbps
Illuminator Number		4 (Multi-core (IR + warm) light)					Day/Night	Auto(ICR)/Color/B/W
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					BLC	Yes
							HLC	Yes
Lens							WDR	120 dB
Lens Type		Motorized vari-focal					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Mount		ф14					Gain Control	Auto/Manual
Focal Length		2.7 mm-13.5 mm					Noise Reduction	3D NR
Max. Aperture		F1.5					Motion Detection	OFF/ON (4 areas, rectangular)
Field of View		H: 97°–28°; V: 52°–16°; D: 117°–32°					Region of Interest (RoI)	Yes (4 areas)
Iris Control		Fixed					Smart Illumination	Yes
Close Focus Distance		0.8 m (2.62 ft)					Smart Dual Light	Yes
	Lens	Detect 64.0 m	Observe 25.6 m	Recognize	Identify 6.4 m		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
		(209.97 ft)	(83.99 ft)	(41.99 ft)	(20.99 ft)		Mirror	Yes
DORI	Т	210.0 m (688.97 ft)	84.0 m (275.59 ft)	42.0 m (137.79 ft)	21.0 m (68.90 ft)		Privacy Masking	4 areas
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 and commissioning manual/project design tool.						Audio	
							Built-in MIC	Yes, built-in Mic
							Audio Compression	G.711a; G.711Mu; G.726; PCM
							Alarm	
Intelligence							Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access;
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)						motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception
SMD		SMD Plus					Network	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Network Port	RJ-45 (10/100 Base-T)
							Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
							Interenerability	ONIVIE (Profile S. P. Profile T. P. Profile C.), CCI

Interoperability

ONVIF (Profile S & Profile T & Profile G); CGI

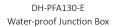
User/Host	6 (Total bandwidth: 36 M)						
Storage	FTP; SFTP; Micro SD card (support max. 256 GB)						
Browser	IE Chrome Firefox						
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care						
Mobile Client	iOS;Android						
Security	Digest;WSSE;Account lockout;Security logs;IP/MAC filtering;Generation 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						
Protection	IP67; IK10 (optional)						
Structure							
Casing Material	Metal						
Product Dimensions	238.5 mm \times 90.7 mm \times 90.7 mm (9.39" \times 3.57" \times 3.57") (L \times W \times H)						
Net Weight	0.76 kg (1.68 lb)						
Gross Weight	0.95 kg (2.09 lb)						

Ordering Information							
Туре	Model	Description					
IP CAMERA	DH-IPC-HFW2449T-ZAS-IL	4MP Smart Dual Light Vari-focal Bullet WizSense Network Camera					
	DH-PFA151	Corner Mount Bracket					
	G3416GW	G3/4" Water Joint					
	DH-PFA130-E	Water-proof Junction Box					
	DH-PFA152-E	Pole Mount Bracket					
	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-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

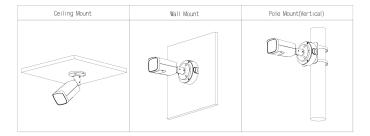


G3416GW G3/4" Water Joint



PFM900-E Integrated Mount Tester





Dimensions (mm[inch])

