

# DH-IPC-HFW2249T-ZAS-IL

2MP Smart Dual Light Vari-focal Bullet 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 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 Fullcolor 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.

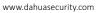
#### **Cyber Security**

With 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**

## Camera

Camera					
Image Sensor	1/2.8" CM	OS			
Max. Resolution	1920 (H) × 1080 (V)				
ROM	128 MB				
RAM	128 MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination	0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio	>56 dB				
Illumination Distance	Up to 60 m (196.85 ft) (IR) Up to 60 m (196.85 ft) (Warm light)				
Illuminator On/Off Control	Auto;Manual				
Illuminator Number	4 (Multi-core (IR + warm) light)				
Angle Adjustment	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens					
Lens Type	Motorized vari-focal				
Lens Mount	φ14				
Focal Length	2.7 mm–13.5 mm				
Max. Aperture	F1.5				
Field of View	H: 109°–30°; V: 56°–17°; D: 131°–35°				
Iris Control	Fixed				
Close Focus Distance	0.8 m (2.62 ft)				
	Lens	Detect	Observe	Recognize	Identify
	2.7 mm <del>-</del> 13.5 mm	144.8 m ( 144.69 ft)	57.9 m ( 58.07 ft)	29.0 m ( 28.87 ft)	14.5 m ( 14.4 ft)
DORI 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.				
Intelligence					
IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)				
SMD	SMD Plus				
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				
Video					
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+	
Video Frame Rate	Main stream: 1920 × 1080@(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 each stream; for multiple streams, the values will be subjected to the total encoding capacity	
Stream Capability	2 streams	
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Bit Rate Control	VBR;CBR	
Video Bit Rate	H.264: 32 kbps–6144 kbps; H.265: 12 kbps–6144 kbps	
Day/Night	Auto(ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto/Manual	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest (RoI)	Yes (4 areas)	
Smart Illumination	Yes	
Smart Dual Light	Yes	
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Built-in MIC	Yes, built-in Mic	
Audio Compression	G.711a; G.711Mu; G.726; PCM	
Alarm		
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	
Network		
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	
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	



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Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
Mobile Client	iOS;Android
Cyber Security	Video 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: 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 × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57") (L × W × 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-HFW2249T-ZAS-IL	2MP Smart Dual Light Vari- focal Bullet WizSense Network Camera				
Accessories (Optional)	DH-PFA151	Corner mount bracket				
	DH-PFA130-E	Water-proof Junction Box				
	G3416GW	G3/4" Water Joint				
	DH-PFA152-E	Pole Mount Bracket				
	DH-PFA135	Junction box				
	DH-PFM321-EN	DC12V1A power adapter				
	DH-PFM321D-EN	DC12V 1A power adapter				
	DH-PFM320D-EN	DC12V2A power adapter				
	PFM900-E	Integrated Mount Tester				
	DHI-TF-P100/256GB	MicroSD Card				

### Accessories

#### Optional:







DH-PFA151 Corner mount bracket

DH-PFA130-E Water-proof Junction Box

DH-PFA152-E Pole Mount Bracket





DH-PFM321-EN

DH-PFM321D-EN DC12V1A power adapter DC12V 1A power adapter

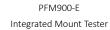


DHI-TF-P100/256GB MicroSD Card

DH-PFM320D-EN DC12V2A power adapter

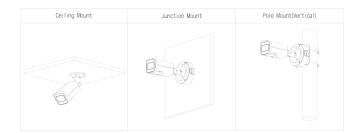
DH-PFA135

Junction box

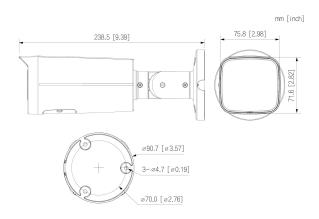




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Dimensions (mm[inch])



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