

DH-IPC-HFW2249T-AS-IL

2MP Smart Dual Light Fixed-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.

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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED, the max. IR light distance is 60 m and max. warm light is 50 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.













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.

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							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	
RAM		128 MB						stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Scanning Sys	stem	Progressive					Stream Capability	2 streams	
Electronic Sh	nutter Speed	Auto/Manual 1/3 s-1/100,000 s					эн сант сарагинг,	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280	
Min. Illumin	ation	0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE)					Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
S/N Ratio		0 lux (Illuminator on) >56 dB					Bit Rate Control	CBR/VBR H.264: 32 kbps-6144 kbps	
	Distance	Vp to 60 m (196.85 ft) (IR)					Video Bit Rate	H.265: 12 kbps—6144 kbps	
Illumination		Up to 50 m (164.04 ft) (Warm light)					Day/Night	Auto(ICR)/Color/B/W	
Illuminator (On/Off Control	Auto; Manual					BLC	Yes	
Illuminator I	Number	2 (IR LED); 2 (Warm light)					HLC	Yes	
Pan/Tilt/Rot	Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°				WDR	120 dB	
, ,		Rotation: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Lens							Gain Control	Auto; Manual	
Lens Type		Fixed-focal					Noise Reduction	3D NR	
Lens Mount		M12					Motion Detection	OFF/ON (4 areas, rectangular)	
Focal Length			3.6 mm; 6 mm; 8 mm				Region of Interest (RoI)	Yes (4 areas)	
Max. Apertu	ıre	F1.6	F1.6				Smart Illumination	Yes	
Field of View		3.6 mm: H: 84°; V: 44°; D: 105° 6 mm: H: 54°; V: 29°; D: 63° 8 mm: H: 42°; V: 23°; D: 47°					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)	
Iris Control		Fixed					Mirror	Yes	
Class Fasus	Dietones	3.6 mm: 1.3 m (4.27 ft)					Privacy Masking	4 areas	
Close Focus	Distance	6 m: 2.6 m (8.53 ft) 8 mm: 4 m (13.12 ft)					Audio		
	Lens	Detect	Observe	Recognize	Identify		Built-in MIC	Yes	
	3.6 mm	58.9 m (193.24 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)	5.9 m (19.36 ft)		Audio Compression	G.711a; G.711Mu; G.726; PCM	
	6 mm	85.5 m	34.2 m	17.1 m	8.5 m		Alarm		
DORI Distance	8 mm	(280.51 ft) 121.3 m (397.97 ft)	(112.20 ft) 48.5 m (159.12 ft)	(56.10 ft) 24.3 m (79.72 ft)	(27.89 ft) 12.1 m (39.70 ft)		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; SMD; security exception;	
(EN-62676-4) distinguish pe this table do		, Observe, Recognize, Identify) is a standard system for defining the ability of a person viewing the video to						external alarm	
		rsons or objects within a covered area. The numbers in not reflect intelligent function distances. For intelligent nces, refer to installation and commissioning manual/					Network		
							Network Port	RJ-45 (10/100 Base-T)	
Intelligence				SDK and API	Yes				
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)					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 G/Profile T); CGI	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to					User/Host	6 (Total bandwidth: 36 M)	
		event videos					Storage	FTP; SFTP; Micro SD card (support max. 256 GB)	



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Management Software	SmartPSS Lite; DSS; DMSS
Browser	IE; Chrome; Firefox
Mobile Client	iOS; Android
Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; generation and importing of X.509 certification
Certification	
Certifications	CE-LVD: EN62368-1 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 3–5 VDC
Alarm Output	1 channel out: 300 mA 12VDC
Power	
Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 1.6 W (12 VDC); 2.1 W (PoE) Max. (H.265+ intelligence on + WDR + illuminator on): 5.8 W (12 VDC); 6.9 W (PoE)
Environment	
Operating Temperature	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F})$
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95%
Protection	IP67, IK10 (optional)
Anti-corrosion Level	Low
Structure	
Casing Material	Metal

Ordering Information							
Туре	Model	Description					
2MP Camera	DH-IPC-HFW2249T-AS-IL	2MP Smart Dual Light Fixed-focal Bullet WizSense Network Camera					
	PFA130-E	Water-proof Junction Box					
	PFA152-E	Pole Mount Bracket					
Accessories (Optional)	PFM321D	12 VDC 1 A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					

Accessories

Optional







PFA130-E Water-proof Junction Box

PFA152-E Pole Mount Bracket

PFM321D 12 VDC 1 A Power Adapter



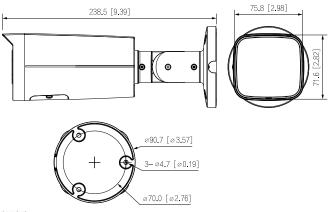


PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])





Product Dimensions

Net Weight

Gross Weight

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The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.

238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57")

 $(L \times W \times H)$

0.72 kg (1.59 lb) 0.95 kg (2.09 lb)