



# 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.

- 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.













#### 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	on					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 System		Progressive					Stream Capability	2 streams
Electronic Sh	nutter Speed	Auto/Manual 1/3 s-1/100,000 s					Stream capability	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Min. Illumination		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)
C/N Patio		0 lux (Illuminator on)					Bit Rate Control	CBR/VBR
S/N Ratio		>56 dB Up to 60 m (196.85 ft) (IR)					Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
Illumination	Distance	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 N	Number	2 (IR LED); 2 (Warm light)					HLC	Yes
Pan/Tilt/Rot	ation Range	Pan: 0°–360° Tilt: 0°–90°					WDR	120 dB
		Rotation: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Tyne		Fixed-focal					Gain Control	Auto; Manual
	Lens Type						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	ire	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
Close Feetis	Distance	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;
		rtect, Observe, Recognize, Identify) is a standard system 6-4) for defining the ability of a person viewing the video to n persons or objects within a covered area. The numbers in do not reflect intelligent function distances. For intelligent						external alarm
	distinguish pe						Network	
function dista project desig		nces, refer to installation and commissioning manual/					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	h	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
Security	Trusted execution; Digest; security logs; WSSE; account lockout; syslog; 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 °C to +60 °C (-40 °F to +140 °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
Product Dimensions	238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57") (L × W × H)
	0.70 L (4.50 H)

0.72 kg (1.59 lb)

0.95 kg (2.09 lb)

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



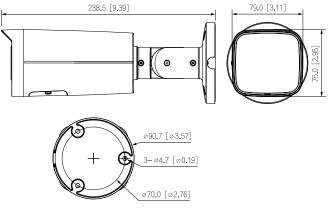


PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

## Dimensions (mm[inch])



Net Weight

Gross Weight