

DH-IPC-HFW2549S-S-IL

5MP Smart Dual Illumination Fixed-focal Bullet WizSense Network Camera



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 Illuminators

Dahua Smart Dual Illuminators 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) are largely reduced. 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.

- Outputs max. 5 MP (2960 × 1668) @20 fps, and supports 2688×1520 (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED, the max. illumination distance is 30 m and the max. warm light distance is 30 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.
- Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67 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.

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.

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Technical Specification							Stream Capability	2 streams
Camera								
Image Sensor		1/2.7" CMOS					Resolution	2960 × 1668 (2960 × 1668); 2880 × 1620 (2880 × 1620); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Resolution		2960 (H) × 1668 (V)						
ROM		128 MB					Rit Rate Control	CDD A/DD
RAM		256 MB					Bit Rate Control	CBR/VBR H.264: 32 kbps-8192 kbps
Scanning System		Progressive					Video Bit Rate	H.265: 12 kbps–8192 kbps
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Day/Night	Auto(ICR)/Color/B/W
Min. Illumination		0.007 Lux@F1.6(Color,30IRE) 0.0007 Lux@F1.6(B/W,30IRE) 0 lux (Illuminator on)					BLC	Yes
S/N Ratio		>56 dB						
							WDR	120 dB
Illumination Distance		30 m (98.43 ft) (IR); 30 m (98.43 ft) (Warm light)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illuminator On/Off Control		Auto; Manual					Gain Control	Auto; Manual
Illuminator Number		1 (IR LED); 1(Warm light)					Noise Reduction	3D NR
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Motion Detection	OFF/ON (4 areas, rectangular)
Lens							Region of Interest (RoI)	Yes (4 areas)
Lens Type		Fixed-focal					Smart Illumination	Yes
Lens Mount		M12					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower)
Focal Length		2.8 mm; 3.6 mm					Mirror	Yes
Max. Aperture		F1.6					Privacy Masking	4 areas
Field of View		2.8 mm: H: 111°; V: 58°; D: 132° 3.6 mm: H: 87°; V: 49°; D: 100°					Audio	
Iris Control		Fixed					Built-in MIC	Yes
Close Focus Distance		2.8 mm: 1.1 m (3.61 ft)					Audio Compression	G.711a; G.711Mu; PCM; G.726
	Long	3.6 mm: 1.7 r Detect		Pecognize	Identify		Alarm	
DORI Distance	Lens 2.8 mm	63.6 m (208.66 ft)	Observe 25.4 m (83.33 ft)	Recognize 12.7 m (41.67 ft)	Identify 6.4 m (21.00 ft)		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion
	3.6 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)			detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception
Intelligence							Network	
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)					Network Port	RJ-45 (10/100 Base-T)
							SDK and API	Yes
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; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour
Video							Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					User/Host	20 (Total bandwidth: 48 M)
Smart Codec		Smart H.265+; Smart H.264+					Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Video Frame Rate		Main stream: 2960 × 1668@(1–20 fps)/2688 × 1520@ (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.					Browser	IE Chrome Firefox
							Management Software	Smart PSS; DSS; DMSS
							Mobile Client	iOS; Android

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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; firmware encryption; 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: UL60950-1 CAN/CSA C22.2 No.60950-1-07						
Power							
Power Supply	12 VDC/PoE (802.3af)						
Power Consumption	Basic: 2.2 W (12 VDC); 2.9 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + warm light intensity + IVS): 4.6 W (12 VDC); 5.5 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						
Structure							
Casing Material	Metal						
Product Dimensions	166.2 mm × 70 mm × 70 mm (6.54" × 2.76" × 2.76") (L × W × H)						
Net Weight	0.47 kg (1.04 lb)						
Gross Weight	0.59 kg (1.30 lb)						

Ordering Information

Туре

5MP Camera

Accessories (Optional)

Model

PFA134

PFA130-E

PFA152-E

PFM321D

PFM900-E

TF-P100

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Accessories

Optional:





PFA130-E

Water-proof

Junction Box



PFA152-E Pole Mount Bracket

alhua 256ga U 42



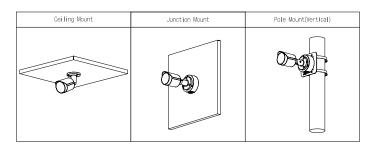
12 VDC 1A Power

Adapter

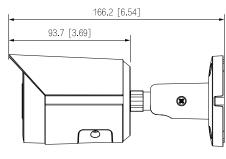
Junction Box

PFM900-E Integrated Mount Tester

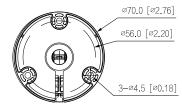
TF-P100 MicroSD Memory Card



Dimensions (mm[inch])







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Description

Junction Box

5MP Smart Dual Illumination

Fixed-focal Bullet WizSense Network Camera

Water-proof Junction Box

12 VDC 1A Power Adapter

Integrated Mount Tester

MicroSD Memory Card

Pole Mount Bracket

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