



# DH-IPC-HFW2549T-AS-IL

# 5MP Smart Dual Light 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 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.

- 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. 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		1/2.7" CMOS				Smart Codec	Smart H.265+; Smart H.264+	
Max. Resolution		2960 (H) × 1668 (V)					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
RAM	ROM		128 MB 256 MB					
	tom							stream; for multiple streams, the values will be subjected to the total encoding capacity.
Scanning Syst		Progressive	1/2 - 1/100 0	00.5			Stream Capability	2 streams
	Electronic Shutter Speed  Min. Illumination		Auto/Manual 1/3 s=1/100,000 s  0.007 lux@F1.6 (Color, 30 IRE) 0.0007 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				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
S/N Ratio		>56 dB						(640 × 480); CIF (352 × 288/352 × 240)
Illumination I	Distance	up to 60 m (195.85 ft) (IR) up to 50 m (164.04 ft) (Warm light)					Bit Rate Control	CBR/VBR
Illuminator O	n/Off Control	Auto; Manual				Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 12 kbps–8192 kbps	
Illuminator N	lumber	2 (IR LED); 2 (	(Warm light)				Day/Night	Auto(ICR)/Color/B/W
		Pan: 0°-360°					BLC	Yes
Pan/Tilt/Rota	Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°				HLC	Yes
Lens	Lens						WDR	120 dB
Lens Type			Fixed-focal				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Mount	Lens Mount		M12				Gain Control	Auto; Manual
Focal Length	Focal Length		3.6 mm; 6 mm; 8 mm				Noise Reduction	3D NR
Max. Apertur	re	F1.6					Motion Detection	OFF/ON (4 areas, rectangular)
Field of View		3.6 mm: H: 92°; V: 45°; D: 110° 6 mm: H: 57°; V: 30°; D: 65°					Region of Interest (RoI)	Yes (4 areas)
		8 mm: H: 43°; V: 24°; D: 48°					Smart Illumination	Yes
Iris Control	Iris Control		Fixed 3.6 mm: 1.7 m (5.58 ft)				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)
Close Focus D	Distance	6 mm: 3.2 m (10.50 ft) 8 mm: 4.6 m (15.09 ft)				Mirror	Yes	
	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	4 areas
	3.6 mm	85.4 m	34.2 m	17.1 m	8.5 m		Audio	
	3.0 11111	(208.18 ft) 124.0 m	(112.20 ft) 49.6 m	(56.10 ft) 24.8 m	(27.89 ft) 12.4 m		Built-in MIC	Yes
	6 mm	(406.82 ft)	(162.73 ft)	(81.36 ft)	(40.68 ft)		Audio Compression	G.711a; G.711Mu; G.726; PCM
DORI Distance	8 mm	150.4 m (493.44 ft)	60.2 m (197.51 ft)	30.1 m (98.75 ft)	15.0 m (49.21 ft)		Alarm	
	(EN-62676-4) distinguish pe this table do r function dista	I (Detect, Observe, Recognize, Identify) is a standard system 2676-4) for defining the ability of a person viewing the video to guish persons or objects within a covered area. The numbers in able do not reflect intelligent function distances. For intelligent on distances, refer to installation and commissioning manual/					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; external alarm
project design tool.				Network				
Intelligence							Network Port	RJ-45 (10/100 Base-T)
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					SDK and API	Yes
Smart Search		human)  Work together with Smart NVR to perform refine intelligent search, event extraction and merging to				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; P2P	
		event videos					Interoperability	ONVIF (Profile S/Profile T/Profile G); CGI

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User/Host	20 (Total bandwidth: 48 M)		
Storage	FTP; SFTP; Micro SD card (support max. 256 GB)		
Management Software	SmartPSS Lite; DSS; DMSS		
Browser	IE; Chrome; Firefox		
Mobile Client	iOS; Android		
Cyber Security	Video encryption; firmware 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			
	CE-LVD: EN62368-1		

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	CE-EMC: Electromagnetic Compatibility Directive		
Certifications	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 12 VDC

#### Power

Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 2.3 W (12 VDC); 3 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + illuminator intensity + IVS); 6.7 W (12 VDC); 7.9 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 $\times$ 90.7 mm $\times$ 90.7 mm (9.39" $\times$ 3.57" $\times$ 3.57") (L $\times$ W $\times$ H)
Net Weight	0.72 kg (1.59 lb)
Gross Weight	0.97 kg (2.14 lb)

Ordering Information			
Туре	Model	Description	
5MP Camera	DH-IPC-HFW2549T-AS-IL	5MP 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







PFA152-E Pole Mount Bracket



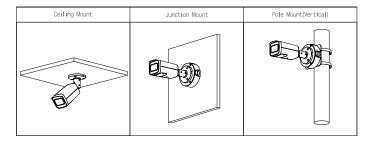
Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



### Dimensions (mm[inch])

