



DH-IPC-HFW2449T-ZAS-IL

4MP Smart Dual Light Vari-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.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 4 MP (2688 x 1520)@20 fps, and supports 2560 ×1440 (2560 × 1440)@25/30 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

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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification						Smart Codec	Smart H.265+; Smart H.264+	
Camera								Main stream: 2688 × 1520@(1–20 fps)/2560 × 3
Image Sensor	1/2.9" CMOS							(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(
Max. Resolution	2688 (H) × 1520 (V)						Video Frame Rate	fps)*The values above are the max. frame rates of ea
ROM	128 MB							stream; for multiple streams, the values will be subjected to the total encoding capacity.
RAM	128 MB						Stream Capability	2 streams
Scanning System	Progressive							4M (2688 × 1520/2560 × 1440); 3M (2304 × 129
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s						Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (720); D1 (704 × 576/704 × 480); VGA (640 × 480
Min. Illumination	0.006 lux@F1.5 (Color, 30 IRE) 0.0006 lux@F1.5 (B/W, 30 IRE)						Bit Rate Control	(352 × 288/352 × 240) VBR;CBR
S/N B .:	0 lux (Illuminator on)						Video Bit Rate	H.264: 32 kbps-6144 kbps;
S/N Ratio	>56 dB						Dou/Night	H.265: 12 kbps=6144 kbps
Illumination Distance		Up to 60 m (196.85 ft) (IR) Up to 60 m (196.85 ft) (Warm light)					Day/Night	Auto(ICR)/Color/B/W
lluminator On/Off Control	Auto;Manual						BLC	Yes
lluminator Number	4 (Multi-core (IR + warm) light)						HLC	Yes
	Pan: 0°-360°						WDR	120 dB
Angle Adjustment	Tilt: 0°–90° Rotation: 0°–36	Tilt: 0°–90° Rotation: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regi custom
Lens							Gain Control	Auto/Manual
ens Type	Motorized vari-	Motorized vari-focal					Noise Reduction	3D NR
ens Mount	φ14						Motion Detection	OFF/ON (4 areas, rectangular)
Focal Length	2.7 mm-13.5 mm						Region of Interest (RoI)	Yes (4 areas)
Max. Aperture	F1.5						Smart Illumination	Yes
Field of View	H: 97°–28°; V: 52°–16°; D: 117°–32°						Smart Dual Light	Yes
Iris Control	Fixed						Image Rotation	$0^{\rm o}/90^{\rm o}/180^{\rm o}/270^{\rm o}$ (Support $90^{\rm o}/270^{\rm o}$ with 2688 resolution and lower)
Close Focus Distance	0.8 m (2.62 ft)						Mirror	Yes
	Lens De	etect Ob	serve	Recognize	Identify		Privacy Masking	4 areas
	2.7 mm-		1.0 m	42.0 m	21.0 m		Audio	
		ft) (83	i.99 II)	(41.99 ft)	(20.99 ft)		Built-in MIC	Yes, built-in Mic
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						Audio Compression	G.711a; G.711Mu; G.726; PCM
							Alarm	
Intelligence	numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.						Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; a detection; voltage detection; defocus detection; alarm;SMD; security exception
Intelligence	Intrucion trinu	vire (the two	funct:	one cupport	the		Network	
VS (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)
SMD	SMD Plus						Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCF RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos						Interoperability	ONVIF (Profile S & Profile T & Profile G); CGI
Video					User/Host	6 (Total bandwidth: 36 M)		
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				supported		Storage	FTP; SFTP; Micro SD card (support max. 256 GB)



Browser	IE Chrome Firefox	
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.5C 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-HFW2449T-ZAS-IL	4MP Smart Dual Light Vari- focal Bullet WizSense Network Camera					
	DH-PFA151	Corner mount bracket					
	G3416GW	G3/4" Water Joint					
	DH-PFA130-E	Water-proof Junction Box					
	DH-PFA152-E	Pole Mount Bracket					
Accessories (Optional)	DH-PFA135	Junction box					
Accessories (Optional)	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-PFA135 Junction box

DH-PFM321-EN DC12V1A power adapter DC12V 1A power adapter

DH-PFM321D-EN



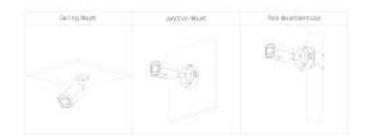




DH-PFM320D-EN DC12V2A power adapter

PFM900-E Integrated Mount Tester

DHI-TF-P100/256GB MicroSD Card



Dimensions (mm[inch])

