



DH-IPC-HDW2449T-ZS-IL

4MP Smart Dual Light Vari-focal Eyeball 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.

- · 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 40 m and the max. warm light distance is 40 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 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 x 1520@(1–20 fps)/2560 x	
Image Sensor	1/2.9" CMOS					(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@	
Max. Resolution	2688 (H) x 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 × 12
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
C/N Datia	0 lux (Illuminator on)					Video Bit Rate	H.264: 32 kbps–6144 kbps; H.265: 12 kbps–6144 kbps
S/N Ratio	>56 dB					Day/Night	Auto(ICR)/Color/B/W
Illumination Distance	Up to 40 m (131.23 ft) (IR) Up to 40 m (131.23 ft) (Warm light)						
Illuminator On/Off Control	Auto;Manual					BLC	Yes
Illuminator Number	2 (Multi-core (IR + w	2 (Multi-core (IR + warm) light)				HLC	Yes
	Pan: 0°–360°					WDR	120 dB
Angle Adjustment	Tilt: 0°–78° Rotation: 0°–360°				White Balance	Auto; natural; street lamp; outdoor; manual; reg custom	
Lens						Gain Control	Auto/Manual
Lens Type	Motorized vari-focal	Motorized vari-focal				Noise Reduction	3D NR
Lens 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 Detect	Observe	Recognize	Identify		Privacy Masking	4 areas
	2.7 mm- 13.5 mm (209.97	84.0 M	42.0 m	21.0 m		Audio	
	13.5 mm (20.99 ft) (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 numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.					Audio Compression	G.711a; G.711Mu; G.726; PCM
						Alarm	
						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; 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)
SMD	SMD Plus					Notwork Duck	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCF
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					Network Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP Multicast; ICMP; IGMP; P2P
Sare Search	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)					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.509 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		
Power			
Power Supply	12 VDC; PoE (802.3af)		
Power Consumption	Basic: 2.3 W (12 VDC), 2.8 W (PoE); Max.: 7.8 W (12 VDC), 9.3 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		
Structure			
Casing Material	Metal		
Product Dimensions	108.3 mm x Φ 122 mm (4.26" x Φ 4.80")		
Net Weight	0.69 kg (1.52 lb)		
Gross Weight	0.86 kg (1.89 lb)		

Ordering Information							
Туре	Model	Description					
IP CAMERA	DH-IPC-HDW2449T-ZS-IL	4MP Smart Dual Light Vari- focal Eyeball WizSense Network Camera					
	DH-PFA117	Ceiling Mount Bracket					
	DH-PFA106	Mount Adapter					
	DH-PFB220C	Ceiling Mount Bracket					
	DH-PFB305W	Wall mount bracket					
	DH-PFA151	Corner mount bracket					
	DH-PFA150	Pole Mount Bracket					
Accessories (Optional)	DH-PFB203W	Wall mount bracket					
Accessories (Optional)	DH-PFA152-E	Pole Mount Bracket					
	DH-PFA137	Junction box					
	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







DH-PFA117 Ceiling Mount Bracket



Mount Adapter



DH-PFB220C Ceiling Mount Bracket



DH-PFB305W Wall mount bracket

DH-PFA150







DH-PFB203W



DH-PFA152-E Pole Mount Bracket



DH-PFA137 Junction box



Wall mount bracket

DH-PFM321-EN DC12V1A power adapter DC12V 1A power adapter DC12V2A power adapter

DH-PFM321D-EN

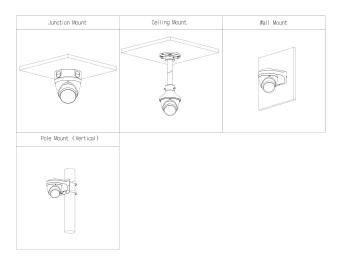
DH-PFM320D-EN





PFM900-E Integrated Mount Tester

DHI-TF-P100/256GB MicroSD Card



Dimensions (mm[inch])

mm [inch]

