



DH-IPC-HDBW4849E-S-IL

8MP Smart Dual Light Fixed-focal Dome 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.

- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 x 2160) @20 fps, and supports 2560 x 1440@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED and warm light, the max. IR 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, IK10 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, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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							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		3840 (H) × 2160 (V)					Video Frame Rate	Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30
ROM		128 MB						
RAM		256 MB						fps) *The values above are the max. frame rates of each
Scanning System		Progressive						stream; for multiple streams, the values will be subjected to the total encoding capacity.
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Stream Capability	2 streams
Min. Illumination S/N Ratio		0.008 lux@F1.6 (Color, 30 IRE); 0.0008 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)					Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2880 × 1620); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480);
S/W Natio		Up to 30 m (98.43 ft) (IR)						VGA (640 × 480); CIF (352 × 288/352 × 240)
Illumination Distance		Up to 30 m (98.43 ft) (Warm light)					Bit Rate Control	VBR;CBR
Illuminator On/Off Control		Auto;Manual					Video Bit Rate	H.264: 32 kbps—8192 kbps; H.265: 12 kbps—8192 kbps
Illuminator Nu	umber	3 (IR LED); 4 (Warm light)					Day/Night	Auto(ICR)/Color/B/W
Angle Adjustn	nent	Pan: 0°–355°; Tilt: 0°–65°;					BLC	Yes
/ ligit / lajustinent		Rotation: 0°–355°					HLC	Yes
Lens							WDR	120 dB
Lens Type		Fixed-focal					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Mount		M12 2.8 mm; 3.6 mm					Gain Control	Auto/Manual
Focal Length Max. Aperture		F1.6					Noise Reduction	3D NR
	-	2.8 mm: H: 110°; V: 58°; D: 132°					Motion Detection	OFF/ON (4 areas, rectangular)
Field of View		3.6 mm: H: 86°; V: 49°; D: 100°					Region of Interest (RoI)	Yes (4 areas)
Iris Control		Fixed					Smart Illumination	Yes
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 1.9 m (6.23 ft)					Smart Dual Light	Yes
	Lens	Detect	Observe	Recognize	Identify		Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower)
	2.8 mm	84.8 m (278.22 ft)	33.9 m (111.22 ft)	17.0 m (55.77 ft)	8.5 m (27.89 ft)		Mirror	Yes
		98.7 m	39.5 m	19.7 m	9.9 m		Privacy Masking	4 areas
DORI	3.6 mm	(323.82 ft)	(129.59 ft)	(64.63 ft)	(32.48 ft)		Audio	
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						Built-in MIC	Yes, built-in Mic
							Audio Compression	G.711a; G.711Mu; PCM; G.726
							Alarm	
Intelligence		Intrusion, tripwire (the two functions support the					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
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)					Network	
SMD		SMD Plus					Network Port	RJ-45 (10/100 Base-T)
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					SDK and API	Yes
		videos				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				
User/Host	20 (Total bandwidth: 48 M)				
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS				
Browser	IE; Chrome; Firefox				
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care				
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					
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU				
Power					
Power Supply	12 VDC/PoE (802.3af)				
Power Consumption	Basic: 2.6 W (12 VDC), 3.3 W (PoE); Max.: 6.9 W (12 VDC), 8.3 W (PoE) (H.265 + intelligence on+ WDR + illuminator intensity)				
Environment					
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)				
Operating Humidity	≤95%(RH), non-condensing				
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)				
Storage Humidity	≤95%(RH), non-condensing				
Protection	IP67; IK10				
Structure					
Casing Material	Metal				
Product Dimensions	81.0 mm x Φ109.9 mm (3.19" x Φ4.33")				
Net Weight	0.36 kg (0.79 lb)				
Gross Weight	0.51 kg (1.12 lb)				

Ordering Information							
Туре	Model	Description					
IP CAMERA	DH-IPC-HDBW4849E-S-IL	8MP Smart Dual Light Fixed- focal Dome WizSense Network Camera					
	DH-PFA109	Mount adapter					
	DH-PFB220C	Ceiling Mount Bracket					
	DH-PFB305W	Wall mount bracket					
	DH-PFA151	Corner mount bracket					
	DH-PFA150	Pole Mount Bracket					
	DH-PFB203W	Wall mount bracket					
Accessories (Optional)	DH-PFA152-E	Pole Mount Bracket					
	DH-PFA136	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

Optional:



DH-PFA109 Mount adapter



DH-PFB220C Ceiling Mount Bracket



DH-PFB305W Wall mount bracket



DH-PFA151 Corner mount bracket



DH-PFA150 Pole Mount Bracket



DH-PFB203W Wall mount bracket



DH-PFA152-E Pole Mount Bracket



DH-PFA136 Junction box



DH-PFM321-EN DC12V1A power adapter



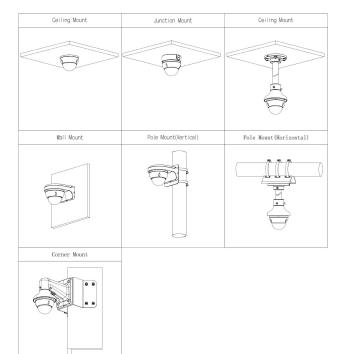
DH-PFM321D-EN DC12V 1A power adapter



DH-PFM320D-EN DC12V2A power adapter



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

mm [inch]

