

# DH-IPC-HDBW2449F-AS-IL

4MP Smart Dual Light Fixed-focal Dome WizSense Network Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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 × 1520) @20 fps, and supports 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 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 and 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 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, 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						V	/ideo Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported	
Image Sensor		1/2.9" CMOS					Smart Codec	by the sub stream)  Smart H.265+; Smart H.264+	
Max. Resolution		2688 (H) × 1520 (V)				3	Video Frame Rate	Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)	
ROM		128 MB							
RAM		128 MB				٧			
Scanning System		Progressive						*The values above are the max. frame rates of each stream; for multiple streams, the values will be	
Electronic Shutter Speed		Auto/Manual 1/3 s—1/100,000 s					G. G. Lilli	subjected to the total encoding capacity.	
Min. Illumination		0.006 lux@F1.6 (Color, 30 IRE); 0.0006 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)					etream Capability	2 streams  4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF	
S/N Ratio		>56 dB						(352 × 288/352 × 240)	
Illumination Distance		Up to 30 m (9		P. LaV		В	Bit Rate Control	CBR/VBR	
Illuminator On/Off Control		Up to 30 m (98.43 ft) (Warm light)  Auto;Manual				V	/ideo Bit Rate	H.264: 32 kbps–6144 kbps; H.265: 12 kbps–6144 kbps	
Illuminator Number		4 (Multi-core (IR + warm) light)				C	Day/Night	Auto(ICR)/Color/B/W	
		Pan: -30° to 30°;				В	BLC	Yes	
Angle Adjustment		Tilt: 0° to 80°; Rotation: 0° to 360°					HLC	Yes	
Lens						V	VDR	120 dB	
Lens Type		Fixed-focal					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Lens Mount		M12				G	Gain Control	Auto/Manual	
Focal Length		2.8 mm; 3.6 r	nm			Ν	Noise Reduction	3D NR	
Max. Aperture		F1.6				N	Motion Detection	OFF/ON (4 areas, rectangular)	
Field of View		2.8 mm: H: 101°; V: 54°; D: 120° 3.6 mm: H: 83°; V: 43°; D: 100°				R	Region of Interest (RoI)	Yes (4 areas)	
Iris Control		Fixed				S	mart Illumination	Yes	
		2.8 mm: 1.1 m (3.61 ft)				S	Smart Dual Light	Yes	
Close Focus Distance Lens		3.6 mm: 1.7 m (5.58 ft)  Detect Observe Recognize Identify			Identify	li	mage Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688 × 1520 resolution and lower)	
		63.6 m	25.4 m	12.7 m	6.4 m	N	Mirror	Yes	
	2.8 mm	( 208.66 ft)	( 93.33 ft)	( 41.67 ft)	( 21.00 ft)	P	Privacy Masking	4 areas	
DORI Distance	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)		Audio		
	*DORI (Detect, Observe, Recognize, Identify) is a standard system					В	Built-in MIC	Yes, built-in Mic	
		(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	
	numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and						Alarm		
Intelligen	ce	ng manual/project design tool.  Intrusion, tripwire (the two functions support the				Α	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	
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)					Network		
SMD		SMD Plus					Network Port	RJ-45 (10/100 Base-T)	
		Work together with Smart NVR to perform refine					DK and API	Yes	
Smart Search		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; NTP;		

Multicast; ICMP; IGMP; P2P

Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI					
User/Host	6 (Total bandwidth: 36 M)					
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;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					
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: 2.3 W (12 VDC), 2.8 W (PoE); Max.: 7.1 W (12 VDC), 8.5 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%					
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)					
Storage Humidity	≤95%					
Protection	IP67; IK10					
Structure						
Casing Material	Metal					
Product Dimensions	55.0 mm × Φ108.9 mm (2.17" × Φ4.29")					
Net Weight	0.41 kg (0.90 lb)					
Gross Weight	0.55 kg (1.21 lb)					

Ordering Information							
Туре	Model	Description					
IP CAMERA	DH-IPC-HDBW2449F-AS-IL	4MP Smart Dual Light Fixed- focal Dome WizSense Network Camera					
	DH-PFB220C	Ceiling Mount Bracket					
	DH-PFA106	Mount Adapter					
	DH-PFB305W	Wall mount bracket					
	DH-PFA151	Corner mount bracket					
	DH-PFA150	Pole Mount Bracket					
	DH-PFA152-E	Pole Mount Bracket					
Accessories (Optional)	DH-PFB204W	Wall mount bracket					
	DH-PFA139	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-PFB220C Ceiling Mount Bracket



DH-PFA151 Corner mount bracket





DH-PFA150 Pole Mount Bracket



DH-PFB305W

Wall mount bracket

DH-PFA152-E Pole Mount Bracket



DH-PFB204W Wall mount bracket



DH-PFA139 Junction box



DH-PFM321-EN DC12V1A power adapter



DH-PFM321D-EN



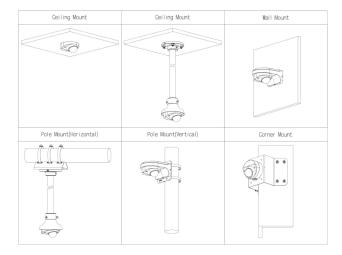
DH-PFM320D-EN DC12V 1A power adapter DC12V2A power adapter



PFM900-E Integrated Mount Tester



DHI-TF-P100/256GB MicroSD Card



## Dimensions (mm[inch])

