



DH-IPC-HDBW3249E-AS-IL

2MP Smart Dual Light Fixed-focal Dome 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 3 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

AI SSA

Dahua AI Scene Self-adaptation (AI SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

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 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.

- · 2-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 2 MP (1920 ×1080)@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 40 m and the max. warm light distance is 40 m.
- ROI, SMART H.264+/H.265+, AI 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 function support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, scene changing, 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. 512 G Micro SD card; built-in Mic.
- 12 VDC/PoE power supply.
- · IP67 and IK10 protection.
- · SMD 4.0.
- Supports AI SSA.
- SMD area can be set in warm light areas that support triggering alarms.













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.

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 S	Specification	on					Uses deep learning algorithms a	
Camera						AcuPick	devices to accurately match targets, such a motor vehicles, and search through live and	
Image Sensor	Image Sensor						videos to quickly locate targets.	
Max. Resolution		1920 (H) × 1080 (V)				AI SSA	Adopt deep learning algorithms parameters of the image to suit	
ROM		256 MB				Smart Search	Work together with Smart NVR intelligent search, event extract	
RAM		1 GB				Sillart Search	videos	
Scanning Syste	em	Progressive				Video	Video	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Video Compression	H.265; H.264; H.264H; H.264B;	
Min. Illumination			L.4 (Color, 30 IR	•			by sub stream)	
		0.0002 lux@l 0 lux (Illumin	=1.4 (B/W,30 IR ator on)	E)		Smart Codec	Smart H.265+; Smart H.264+	
S/N Ratio		>56 dB				AI Coding	Al H.265; Al H.264	
Illumination Distance			131.23 ft) (War	m light)		Video Frame Rate	Main stream: $1920 \times 1080@(1-Sub stream: 1920 \times$	
Illuminator On		Auto;Manual					stream; for multiple streams, t subjected to the total encoding	
Illuminator Number		3 (IR LED); 4 (Warm light)				Stream Capability	3 streams	
Angle Adjustm	nent	Pan: 0°-355° Tilt: 0°-75° Rotation: 0°-355°				Resolution	1080p (1920 × 1080); 1.3M (12 720); D1 (704 × 576/704 × 480 (352 × 288/352 × 240)	
Lens						Bit Rate Control	VBR;CBR;ABR	
Lens Type Lens Mount		Fixed-focal M12				Video Bit Rate	H.264: 3 kbps-8192 kbps; H.265: 3 kbps-8192 kbps	
Focal Length		2.8 mm; 3.6 mm; 6 mm				Day/Night	Auto(ICR)/Color/B/W	
Max. Aperture	a	F1.4				BLC	Yes	
a.n. riperture		2.8 mm: H: 100°; V: 55°; D: 117°				HLC	Yes	
Field of View		3.6 mm: H: 8	3°; V: 44°; D: 98 ; V: 28°; D: 60°			WDR	120 dB	
Iris Control		Fixed				Scene Self-adaptation (SSA)	Yes	
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.1 m (3.61 ft)				White Balance	Auto; natural; street lamp; out custom	
		6 mm: 2.7 m (8.86 ft)				Gain Control	Auto/Manual	
	Lens	Detect	Observe	Recognize	Identify	Noise Reduction	3D NR	
	2.8 mm	44.0 m (144.36 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)	Motion Detection	OFF/ON (4 areas, rectangular)	
	3.6 mm	55.7 m	22.3 m	11.1 m	5.6 m	Region of Interest (RoI)	Yes (4 areas)	
DORI		(182.74 ft)	(73.16 ft)	(36.42 ft)	(18.37 ft)	Smart Illumination	Yes	
Distance	6 mm	88.6 m (290.68 ft)	35.4 m (116.14 ft)	17.7 m (58.07 ft)	8.9 m (29.20 ft)	Smart Dual Light	Yes	
		t, Observe, Re				Defog	Yes	
	to distinguish	for defining to persons or ob his table do no	ojects within a	covered area	a. The	Image Rotation	0°/90°/180°/270° (Support 90°/ resolution and lower)	
	For intelligent function distances, refer to installation and commissioning manual/project design tool.					Mirror	Yes	
Intelligence			Privacy Masking	8 areas				
			LDC	Yes				
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)				Audio		
SMD		SMD 4.0				Built-in MIC	Yes, built-in Mic	
5.010		51115 4.0				Audio Compression	PCM; G.711a; G.711Mu; G.726;	

Alarm						
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external alarm; SMD; security exception					
Network						
Network Port	RJ-45 (10/100 Base-T)					
SDK and API	Yes					
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; SAMBA; PPPoE; SNMP; P2P					
Interoperability	ONVIF (Profile S & Profile G & Profile T & Profile M); CGI					
User/Host	20 (Total bandwidth: 64 M)					
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS					
Browser	IE: IE11; 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;Session security;Security warning					
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)					
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.					
Power Consumption	Basic: 3.2 W (12 VDC); 4.1 W (PoE); Max.: 6 W (12 VDC); 7.1 W (PoE) (H.265 + WDR + warm light + intelligence on)					
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	89.1 mm × Φ111.7 mm (3.51" × Φ4.40")				
Net Weight	528 g (1.16 lb)				
Gross Weight	690 g (1.52 lb)				

Ordering Information						
Туре	Model	Description				
IP CAMERA	DH-IPC-HDBW3249E-AS-IL	2MP Smart Dual Light Fixed- focal Dome WizSense Network Camera				
	DH-PFA109	Mount Adapter				
	DH-PFB220C	Ceiling Mount Bracket				
	DH-PFA151	Corner Mount Bracket				
	DH-PFB305W	Wall 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-P100/512GB	MicroSD Card				

Accessories

Optional:



DH-PFA109 Mount Adapter



DH-PFB305W Wall Mount Bracket

DH-PFA152-E

Pole Mount Bracket



DH-PFA150 Pole Mount Bracket



DH-PFB220C

Ceiling Mount Bracket

DH-PFA136 Junction Box



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



DH-PFA151 Corner Mount Bracket



DH-PFB203W Wall Mount Bracket



DH-PFM321-EN DC12V1A power adapter

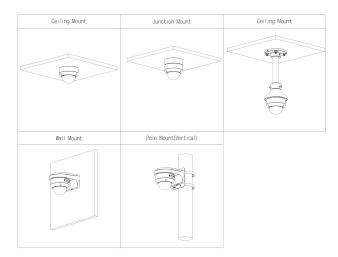


PFM900-E Integrated Mount Tester



DH-PFM321D-EN

DHI-TF-P100/512GB MicroSD Card



Dimensions (mm[inch])

mm [inch]

