



DH-IPC-HDBW3849E-AS-IL-Black

8MP 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.

- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition
- · Outputs max. 8 MP (3840 ×2160)@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+, 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, 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							Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event
Camera							Siliai t Sealtii	videos
Image Sensor		1/2.7" CMOS					Video	
Max. Resolution		3840 (H) × 2160 (V)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by sub stream)
ROM		256 MB					Smart Codec	Smart H.265+; Smart H.264+
RAM		1 GB					Al Coding	AI H.265; AI H.264
Scanning System		Progressive					Video Frame Rate Stream Capability	Main stream: 3840 × 2160@(1–25/30 fps) Sub stream: 1920 × 1080@(1–25/30 fps) Third stream: 1920 × 1080@(1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will besubjected to the total encoding capacity. 3 streams
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.007 lux@F1.4 (Color, 30 IRE) 0.0007 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)						
S/N Ratio		>56 dB					Resolution	8M (3840 × 2160); 6M (3200 × 1800); 5M (3072 × 1728);
Illumination Distance		Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)						4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Illuminator On/Off Control		Auto;Manual					Bit Rate Control	ABR;CBR;VBR
Illuminator Number		3 (IR LED); 4 (Warm light)					Video Bit Rate	H.264: 3 kbps–16384 kbps;
Angle Adjustment		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°					Day/Night	H.265: 3 kbps–16384 kbps Auto(ICR)/Color/B/W
Lens		datav					BLC	Yes
Lens Type		Fixed-focal					HLC	Yes
Lens Mount		M12					WDR	120 dB
Focal Length		2.8 mm; 3.6 mm					Scene Self-adaptation	Yes
Max. Aperture		F1.4					(SSA)	Auto; natural; street lamp; outdoor; manual; regional
Field of View		2.8 mm: H: 110°; V: 58°; D: 132° 3.6 mm: H: 86°; V: 49°; D: 100°					White Balance	custom
Iris Control		Fixed					Gain Control	Auto/Manual
		2.8 mm: 1.4 m (4.59 ft)					Noise Reduction	3D NR
Close Focus Distance		3.6 mm: 1.9 m (6.23 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
	Lens	Detect	Observe	Recognize	Identify		Region of Interest (RoI)	Yes (4 areas)
	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)		Smart Illumination	Yes
DORI Distance	3.6 mm	98.7 m (323.82 ft)	39.5 m (129.59 ft)	19.7 m (64.63 ft)	9.9 m (32.48 ft)		Smart Dual Light	Yes
Distance	*DORI (Detect,	ORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4)					Defog	Yes
	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.						Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower)
Intolligano		manua/project design tool.					Mirror	Yes
Intelligence							Privacy Masking	8 areas
IVS (Perimete	er Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					LDC	Yes
		human)					Audio	
SMD		SMD 4.0					Built-in MIC	Yes, built-in Mic
AcuPick		Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
							Alarm	
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.					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 Network Protocol	Yes IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTM SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPP0E; SNMP; P2I				
Interoperability	ONVIF (Profile S & Profile G & Profile T & Profile M); CG				
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;IF MAC filtering;Generation and importing of X.509 ce rtification;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 wil continue to work, but will not restart.				
Power Consumption	Basic: 3.7 W (12 VDC); 4.6 W (PoE); Max.: 6.4 W (12 VDC); 7.5 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-HDBW3849E-AS- IL-Black	8MP Smart Dual Light Fixed-focal Dome WizSense Network Camera					
	DH-PFA109-B	Mount Adapter					
	DH-PFB220C-B	Ceiling Mount Bracket					
	DH-PFB203W-B	Wall Mount Bracket					
	DH-PFA152-E-B	Pole Mount Bracket					
Accessories	DH-PFA136-B	Junction Box					
(Optional)	DH-PFM321-EN	DC12V 1A power adapter					
	DH-PFM321D-EN	DC12V 1A power adapter					
	DH-PFM320D-EN	DC12V 2A power adapter					
	PFM900-E	Integrated Mount Tester					
	DHI-TF-P100/512GB	MicroSD Card					

Accessories

Optional:







DH-PFB220C-B Ceiling Mount Bracket



DH-PFB203W-B Wall Mount Bracket



DH-PFA152-E-B Pole Mount Bracket



DH-PFA136-B Junction Box



DH-PFM321-EN DC12V 1A power adapter



DH-PFM321D-EN DC12V 1A power adapter



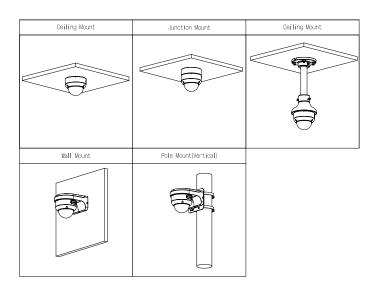
DH-PFM320D-EN DC12V 2A power adapter



PFM900-E Integrated Mount Tester



DHI-TF-P100/512GB MicroSD Card



Dimensions (mm[inch])

