



DH-IPC-UDBW4859E-AS-IL

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 + 4 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 image.
- · 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, 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 Soarch	Work together with Smart NVR to perform refine
Camera							Smart Search	intelligent search, event extraction and merging to event 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					7.11 333.11. ₆	Main stream: 3840 × 2160@(1–25/30 fps)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Frame Rate	*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 be subjected to the total encoding capacity.
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					Stream Capability	3 streams
Illumination Distance Illuminator On/Off Control		Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light) Auto:Manual					Resolution	8M (3840 × 2160); 6M (3200 × 1800); 5M (3072 × 1728); 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
Illuminator Number		3 (IR LED); 4 (Warm light)						× 240)
		Pan: 0°–355°					Bit Rate Control	VBR;CBR;ABR
Angle Adjustment		Tilt: 0°–35° Rotation: 0°–355°					Video Bit Rate	H.264: 3 kbps–16384 kbps; H.265: 3 kbps–16384 kbps
Lens							Day/Night	Auto(ICR)/Color/B/W
Lens Type		Fixed-focal					BLC	Yes
Lens Mount		M12					HLC	Yes
Focal Length		2.8 mm; 3.6 mm					WDR	120 dB
Max. Apertur	e	F1.4					Scene Self-adaptation (SSA)	Yes
Field of View		2.8 mm: H: 110°; V: 58°; D: 132° 3.6 mm: H: 86°; V: 49°; D: 100°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Iris Control		Fixed					Gain Control	Auto/Manual
Close Focus Distance		2.8 mm: 1.4 m (4.59 ft) 3.6 mm: 1.9 m (6.23 ft)					Noise Reduction	3D NR
	Lens	Detect	Observe	Recognize	Identify		Motion Detection	OFF/ON (4 areas, rectangular)
		84.8 m	33.9 m	17.0 m	8.5 m		Region of Interest (RoI)	Yes (4 areas)
	2.8 mm	(278.22 ft)	(111.22 ft)	(55.77 ft)	(27.89 ft)		Smart Illumination	Yes
0.00	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
DORI Distance	*DOPL (Dotoc		. ,				Defog	Yes
	*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						Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
	numbers in the			•			Mirror	Yes
	commissioning manual/project design tool.						Privacy Masking	8 areas
Intelligence							LDC	Yes
IVS (Perimete	r Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					Audio	
		human)					Built-in MIC	Yes, built-in Mic
SMD		SMD 4.0				Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723	
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.						

videos to quickly locate targets.

AI SSA

Adopt deep learning algorithms to adjust the

parameters of the image to suit the conditions.

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: 3.7 W (12 VDC); 5.1 W (PoE); Max.: 6.2 W (12 VDC); 8.2 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-UDBW4859E-AS-IL	8MP Smart Dual Light Fixed- focal Dome WizSense + Network Camera					
	DH-PFB220C	Ceiling Mount Bracket					
	DH-PFA109	Mount Adapter					
	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-PFB220C Ceiling Mount Bracket



DH-PFB305W Wall Mount Bracket

DH-PFA152-E

Pole Mount Bracket



DH-PFA150 Pole Mount Bracket

DH-PFA109

Mount Adapter



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

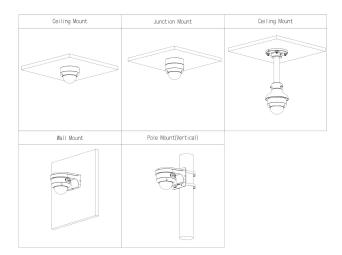


PFM900-E Integrated Mount Tester



DH-PFM321D-EN

DHI-TF-P100/512GB MicroSD Card



Dimensions (mm[inch])

mm [inch]

