

DH-IPC-UDBW4659R-ZAS-IL

6MP Smart Dual Light Vari-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) 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.

- 6-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 6 MP (3288 × 1850)@25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- Built-in multi-core light, the max. IR distance is 50 m and the max. warm light distance is 50 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, IK10 protection.
- · SMD 4.0.
- · Supports AI SSA.

 \cdot 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 comprising 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera						
Image Sensor		1/2.7" CMOS				
Max. Resolution		3288 (H) × 1850 (V)				
ROM		256 MB				
RAM		1 GB				
Scanning System		Progressive				
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				
Illumination Distance		Up to 50 m (164.04 ft) (IR) Up to 50 m (164.04 ft) (Warm light)				
Illuminator On/Off Control		Auto; Manual				
Illuminator Number		4 (Multi-core (IR + warm) light)				
Angle Adjustment		Pan: 0°–355°; Tilt: 0°–80°; Rotation: 0°–355°				
Lens						
Lens Type		Motorized vari-focal				
Lens Mount		ф14				
Focal Length		2.7 mm-13.5 mm				
Max. Apertu	ire	F1.4				
Field of View	1	H: 114°–32°; V: 58°–17°; D: 138°–36°				
Iris Control		Fixed				
Close Focus	Distance	0.1 m (0.33 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	W	85.3 m (279.86 ft)	34.0 m (111.55 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)	
	т	280.0 m (918.64 ft)	112.0 m (367.45 ft)	56.0 m (183.73 ft)	28.0 m (91.86 ft)	
	*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					

(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 commissioning manual/ project design tool.

Intelligence

IVS (Perimeter Protection)	Tripwire, intrusion (support the classification and accurate detection of vehicle and human)	
SMD	SMD 4.0	
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.	
AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions	
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	

Video H.265; H.264; H.264H; H.264B; MJPEG (only supported Video Compression by the sub stream) Smart Codec Smart H.265+; Smart H.264+ AI Coding AI H.265; AI H.264 Main stream: 3288 × 1850@(1 fps-25/30 fps) Sub stream: 1920 × 1080@(1 fps-25/30 fps) Third stream: 1920 × 1080@(1 fps-25/30 fps) Video Frame Rate *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. Stream Capability 3 streams 6M (3288 × 1850/3200 × 1800); 5M (2960 × 1688/2880 × 1620); 4M (2688 × 1520/2560 × 1440); 3M (2304 × Resolution 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) Bit Rate Control VBR;CBR;ABR H.264: 3 kbps-16384 kbps Video Bit Rate H.265: 3 kbps-16384 kbps Day/Night Auto (ICR)/Color/B/W BLC Yes HLC Yes WDR 120 dB Scene Self-adaptation Yes (SSA) Auto; natural; street lamp; outdoor; manual; regional White Balance custom Gain Control Auto Noise Reduction 3D NR OFF/ON (4 areas, rectangular) **Motion Detection** Image Stabilization Electronic Image Stabilization (EIS) Region of Interest (Rol) Yes (4 areas) Smart Illumination Yes Smart Dual Light Yes Defog Yes AFSA Yes 0°/90°/180°/270° (support 90°/270° with 2688 × 1520 Image Rotation resoluton and lower) Mirror Yes Privacy Masking 8 areas Audio Built-in Mic Yes, built-in Mic G.711a; G.711Mu; PCM; G.726; G.723 Audio Compression Alarm No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion Alarm Event detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; safety exception

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Network

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 G); NAS			
Browser	IE: IE11 Chrome Firefox			
Management Software	SmartPSS Lite; DSS; DMSS			
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 V–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: 3.3 W (12 VDC); 4.0 W (PoE) Max. (H.265 + WDR + warm light + intelligence on): 9.2 W (12 VDC); 11.3 W (PoE)			
Environment				
Operating Temperature	-30 °C to +60 °C (-22 °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	Metal			
Product Dimensions	94.0 mm × Φ122.0 mm (3.70" × Φ4.80")			
Net Weight	560 g (1.23 lb)			
Gross Weight	740 g (1.63 lb)			
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Ordering Information					
Туре	Model	Description			
6MP Camera	DH-IPC-UDBW4659R-ZAS-IL	6MP Smart Dual Light Vari-focal Dome WizSense + Network Camera			
	DH-PFA137	Junction Box Bracket			
	DH-PFA109	Mount Adapter			
	DH-PFB220C	Ceiling Mount Bracket			
	DH-PFB5203C	In Ceiling Mount Bracket			
	DH-PFB206W	Wall Mount			
Accessories (Optional)	DH-PFA156	Pole Mount			
	DH-PFM321-EN	DC12V 1A power adapter			
	DH-PFM321D-EN	DC12V 1A power adapter			
	DH-PFM320D-EN	DC12V 2A power adapter			
	РҒМ900-Е	Integrated Mount Tester			
	DHI-TF-P100/512GB	MicroSD Card			

Accessories

Optional:



DH-PFA137

Junction Box Bracket

DH-PFB5203C

In Ceiling

Mount Bracket

DH-PFM321-EN

DC12V 1A power adapter

PFM900-E

Integrated Mount Tester



DH-PFA109

Mount Adapter



DH-PFB220C Corner Mount Bracket









DH-PFM321D-EN DC12V 1A power adapter



DH-PFM320D-EN DC12V 2A power adapter

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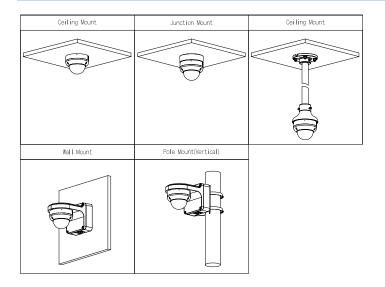
DHI-TF-P100/512GB MicroSD Card



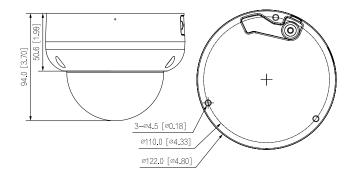




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Dimensions (mm[inch])



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