



DH-IPC-HDW2549EMP-S-PRO-ANZ

5MP WizColor Fixed-focal Eyeball 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

WizColor Technology

Dahua WizColor Technology seamlessly combines with the powerful AI-ISP, large pixel size sensor and large aperture in cameras. This unique integration enables cameras to effortlessly capture high-quality images with vibrant colors during nighttime scenarios, ensuring fine details are preserved and minimizing motion blur. Unlike traditional self-illuminating cameras, Dahua WizColor Technology maximizes the utilization of weak light sources, such as moonlight and city lights reflected in the sky, delivering captivating full-color images of the entire scene. It also ensures that monitoring distances are not compromised at night due to limited illumination ranges, facilitating full-color image capture even over long distances.

AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

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.

- 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 × 1668) @20 fps, and supports (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light, and the max. illumination 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 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.

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

Technical Specification							Smart Codec	Smart H.265+; Smart H.264+
Camera								Main stream: 2960 × 1668@(1–20 fps)/2688 ×
Image Sensor		1/1.8" CMOS						1520@(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the max. frame rates of
Max. Resolution		2960 (H) × 1668 (V)					Video Frame Rate	
ROM		128 MB					each stream; for multiple streams, the values will be subjected to the total encoding capacity.	
RAM		256 MB					Stream Capability	2 streams
Scanning System		Progressive					Resolution	5M (2960 × 1668); 4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Electronic Shutter Speed		Auto/Manual 1/3 s=1/100,000 s						
Min. Illumination		0.0005 lux@F1.0						
S/N Ratio		>56 dB					Bit Rate Control	VBR;CBR
Illumination Distance		Up to 30 m (98.43 ft) (Warm light)					Video Bit Rate	H.264: 32 kbps-6144 kbps; H.265: 12 kbps-6144 kbps
Illuminator On/Off Control		Auto;Manual					Day/Night	Color/B/W
Illuminator Number		2 (Warm light)					BLC	Yes
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78°					HLC	Yes
		Rotation: 0°–360°					WDR	120 dB
Lens Type		Fixed-focal					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Mount		M16					Gain Control	Auto/Manual
Focal Length		2.8 mm					Noise Reduction	3D NR
Max. Aperture		F1.0					Motion Detection	OFF/ON (4 areas, rectangular)
Field of View		2.8 mm: H: 112°; V: 60°; D: 134°					Region of Interest (RoI)	Yes (4 areas)
Field of View							Smart Illumination	Yes
Iris Control		2.8 mm: 1.7 m (5.58 ft)					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Close Focus Distance							Mirror	Yes
	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	4 areas
	2.8 mm	57.9 m (189.96 ft)	23.2 m (76.12 ft)	11.6 m (38.06 ft)	5.8 m (19.03 ft)		LDC	Yes
							Audio	
DORI	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the						Built-in MIC	Yes, built-in Mic
Distance							Audio Compression	G.711a; G.711Mu; PCM; G.726
	video to distir	o to distinguish persons or objects within a covered area.					Alarm	
i i le	The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.						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
Intelligence							Network	detection, voltage detection, sivib, security exception
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					Network Port	RJ-45 (10/100 Base-T)
SMD		human); SMD Plus					SDK and API	Yes
Smart Search		Work together with Smart NVR to perform refine 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; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; P2P; Bonjour; Auto Registeration
Video							Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					User/Host	20 (Total bandwidth: 48 M)

Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS					
Browser	IE; Chrome; Firefox					
Management Software	Smart PSS 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.50s 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;					
Power						
Power Supply	12 VDC; PoE					
Power Consumption	Basic: 2.0 W (12 VDC); 2.5 W (PoE); Max.: 5.3 W (12 VDC); 6.4 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% (RH), non-condensing					
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)					
Storage Humidity	≤95% (RH), non-condensing					
Protection	IP67					
Structure						
Casing Material	Inner core: Metal; Cover: Plastic					
Product Dimensions	109.5 mm × Φ109.9 mm (4.31" × Φ4.33")					
Net Weight	0.42 kg (0.93 lb)					
Gross Weight	0.59 kg (1.30 lb)					

Ordering Information								
Туре	Model	Description						
IP CAMERA	DH-IPC-HDW2549EMP-S- PRO-ANZ	5MP WizColor Fixed-focal Eyeball WizSense Network Camera						
	DH-PFA106	Mount Adapter						
	DH-PFB220C	Ceiling Mount Bracket						
	DH-PFA139	Junction Box						
Accessories (Optional)	TF-P100	MicroSD Memory Card						
	PFM900-E	Integrated Mount Tester						
	DH-PFB204W	Wall Mount Bracket						
	DH-PFA152-E	Pole Mount Bracket						
	PFM321D	12 VDC 1 A Power Adapter						

Accessories

Optional:



PFA139 Junction Box



PFB204W Wall Mount Bracket



PFA106 Mount Adapter



PFB220C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



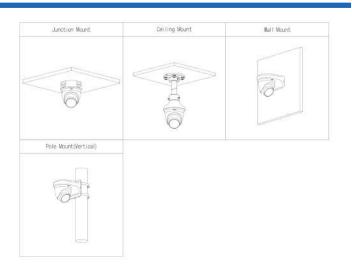
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

