

DH-IPC-HDW2849TM-S-T-PV

8MP Smart Dual Light 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

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.

Two-way Talk

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way talk through the mobile app.

- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160) @20 fps, and supports 2688×1520 (2688 × 1520) @25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED, the max. illumination distance is 30 m and the max. warm light 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; built-in speaker; support two-way talk.
- 12 VDC/PoE power supply, easy for installation.
- · IP67 protection.
- · SMD Plus.













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.

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.

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			Video					
Camera							Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Image Sensor		1/2.7" CMOS					Smart Codec	Smart H.265+; Smart H.264+
Max. Resolution		3840 (H) × 2160 (V)					Main stream: 3840 × 2160@(1–20 fps)/2688 ×	
ROM		128 MB					Video Frame Rate	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
RAM		256 MB						
Scanning Syst	em	Progressive						each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Electronic Shu	utter Speed	Auto/Manual 1/3 s-1/100,000 s					Streaming Capability	2 streams
Min. Illumination		0.008 lux@F1.6 (Color, 30 IRE); 0.0008 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)						3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 × 1728 (3072 × 1728); 2880 × 1620 (2880 × 1620); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 ×
S/N Ratio		> 56 dB					Resolution	1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480);
Illumination D	Distance	Up to 30 m (98.43 ft) (IR LED); Up to 30 m (98.43 ft) (Warm light)						× 960); 7206 (1280 × 720); D1 (704 × 576) 704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Illuminator Or	n/Off Control	Auto;Manual					Bit Rate Control	CBR/VBR
Illuminator Number		1 (IR LED); 1 (Warm light)					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78°					Day/Night	Auto(ICR)/Color/B/W
/ ingre / iajasin		Rotation: 0°–	360°				BLC	Yes
Lens							HLC	Yes
Lens Type		Fixed-focal					WDR	120 dB
Lens Mount		M12					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Focal Length		2.8 mm; 3.6 mm					Gain Control	Manual;Auto
Max. Aperture		F1.6					Noise Reduction	3D NR
Field of View		2.8 mm: H: 111°; V: 58°; D: 132° 3.6 mm: H: 87°; V: 49°; D: 100°					Motion Detection	OFF/ON (4 areas, rectangular)
Iris Control		Fixed					Region of Interest (RoI)	Yes (4 areas)
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 1.9 m (6.23 ft)					Smart Illumination	Yes
	Lens	Detect	Observe	Recognize	Identify		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
	2.8 mm	84.8 m	33.9 m	17.0 m	8.5 m		Mirror	Yes
		(278.22 ft)	(111.22 ft)	(55.77 ft)	(27.89 ft)		Privacy Masking	4 areas
DORI	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)		Audio	
Distance		*DORI (Detect, Observe, Recognize, Identify) is a standard system					Built-in MIC	Yes
video to dist The number		4) for defining the ability of a person viewing the tinguish persons or objects within a covered area. rs in this table do not reflect intelligent function for intelligent function.					Built-in Speaker	Yes, built-in speaker
							Audio Compression	G.711a; G.711Mu; PCM; G.726
and commissioning manual/project design tool.		. canacion		Alarm				
Intelligence IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					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
OMS		human)					Network	
SMD		SMD Plus Work tagether with Smart NVD to perform refine					Network Port	RJ-45 (10/100 Base-T)
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					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; PPPoE; Boujour		
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI; P2P		
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; DSS ;DMSS		
Mobile Client	iOS;Android		
Security	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 FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14		
Power			
Power Supply	12 VDC; PoE (802.3af)		
Power Consumption	Basic: 2.5 W (12 VDC); 3.4 W (PoE); Max.: 6.7 W (12 VDC); 7.5 W (PoE) (H.265 + intelligence on+ WDR + illuminator intensity)		
ePoE	No		
Environment			
Operating Temperature	-40 °C to +55 °C (-40 °F to +131 °F)		
Operating Humidity	≤95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Storage Humidity	≤95%		
Protection	IP67		
Structure			
Casing Material	Inner core: Metal Cover: Metal Decoration ring: Metal Quick install mounting plate: Metal		
Product Dimensions	95 mm × Φ106 mm (3.74" × 4.17")		
Net Weight	0.48 kg (1.06 lb)		
Gross Weight	0.62 kg (1.37 lb)		

Ordering Information			
Туре	Model	Description	
IP CAMERA	DH-IPC-HDW2849TM-S-T-PV	8MP Smart Dual Light Fixed-focal Eyeball WizSense Network Camera	
Accessories (Optional)	DH-PFB220C	Ceiling Mount Bracket	

Туре	Model	Description
	DH-PFA109	Mount Adapter
	DH-PFA151	Corner Mount Bracket
	DH-PFB305W	Wall Mount Bracket
	DH-PFA150	Pole Mount Bracket
	DH-PFA156	Pole Mount Bracket
	DH-PFB2203W	Wall Mount Bracket
Accessories (Optional)	G3416GW	G3/4" Water Joint
	DH-PFA130-E	Water-proof Junction Box
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM900-E	Integrated Mount Tester
	DHI-TF-W100-256GB	MicroSD Card
	DHI-TF-P100/256GB	MicroSD Card

Accessories

Optional:







DH-PFA130-E Water-proof Junction Box



DH-PFA150 Pole Mount Bracket



DH-PFA151 Corner Mount Bracket



DH-PFA156 Pole Mount Bracket



DH-PFB2203W Wall Mount Bracket



DH-PFB220C Ceiling Mount Bracket



DH-PFB305W Wall Mount Bracket



DH-PFM320D-EN DC12V2A power adapter



DH-PFM321-EN DC12V1A power adapter



DHI-TF-P100/256GB MicroSD Card



DHI-TF-W100-256GB MicroSD Card

Optional:





G3416GW G3/4" Water Joint

PFM900-E Integrated Mount Tester

Junction Mount	Ceiling Mount	Wall Mount
Pole Mount(Vertical)		

Dimensions (mm[inch])

mm [inch]

3-4.5×5.5 [0.18×0.22] Ø83.3 [Ø3.28] Ø122.0 [Ø4.8] 4.5×12.9 [0.18×0.51]

