

DH-IPC-HDW3449TM-AS-NI

4MP Full-color 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 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. In addition, with full-color technology, it provides a better image effect in the condition of low illuminance.

Functions

Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

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.

- 4MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520) @ 30 fps
- H.265 codec, high compression rate, low bit rate
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire (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, voltage detection
- · Supports max. 256 G Micro SD card, built-in Mic
- 12V DC/POE power supply
- IP67 protection
- · SMD Plus













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.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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 works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Bit Rate Control

CBR; VBR

Technical Sp	ecificati	on					Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
Camera					Day/Night	Color/B/W		
Image Sensor		1/2.7"4Megapixel progressive CMOS					BLC	Yes
Max. Resolution		2688 (H) × 1520 (V)					WDR	120 dB
ROM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
RAM		512 MB					Gain Control	Auto/Manual
Scanning System		Progressive					Noise Reduction	3D DNR
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100, 000 s					Motion Detection	OFF/ON (4 areas, rectangular)
Min. Illumination		0.003 Lux@F1.0					Region of Interest (RoI)	Yes (4 areas)
S/N Ratio		> 56 dB						0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
Pan/Tilt/Rotation Range		Horizontal: 0°–360°; vertical: 0°–78°; rotation: 0°–360°					Image Rotation	resolution and lower.)
Lens							Mirror	Yes
Lens Type		Fixed-focal					Privacy Masking	4 areas
Mount Type		M12					Audio	
Focal Length		2.8 mm; 3.6 mm					Audio Compression	G.711a; G.711Mu; G726
Max. Aperture		F1.0					Alarm	
Field of View		2.8 mm: Horizontal 103° × vertical 53° × diagonal 122° 3.6 mm: Horizontal 80° × vertical 43° × diagonal 95°					Alarm Event	No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection;
Iris Type		Fixed						IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; intensity change; tripwire; intrusion; SMD
Close Focus Distance		2.8 mm: 1.2 m (3.9 ft) 3.6 mm: 2.4 m (7.9 ft)					Network	
	Lens	Detect	Observe	Recognize	Identify		Network	RJ-45 (10/100 Base-T)
	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	5.6 m (18.4 ft)		SDK and API	Yes
DORI Distance		80.0 m 32.0 m 16.0 m 8.0 m (262.5 ft) (105.0 ft) (52.5 ft) (26.3 ft) etect, Observe, Recognize, Identify) is a standard system 6-4) for defining the ability of a person viewing the					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; SNMP
	The numb distances. and comm	to distinguish persons or objects within a covered area. numbers in this table do not reflect intelligent function nces. For intelligent function distances, refer to installation commissioning manual/project design tool.					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
Professional							Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone;
Perimeter Prote		Work togethe	usion (Recogniter with Smart Narch, event ext	VR to perform	refine		Scene self-adaptation	Genetec Yes
Intelligent Search		videos	arcii, evenii ext	action and me	iging to event		(SSA) User/Host	20 (Total bandwidth: 64M.)
Video							Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)						IE: IE8; IE9; IE11
Smart Codec		Smart H.265+/ Smart H.264+					Browser	Chrome Firefox
Video Em. D.		Main stream (2688 × 1520@ 1–25/30 fps)					Management Software	Smart PSS; DSS; DMSS
Video Frame Rate		sub stream (704 × 576@ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720@ 1–25/30 fps)					Mobile Phone	IOS; Android
Stream Capability		3 streams					Certification	
Resolution		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)					Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Rit Rate Control		CRR- VRR						01, COL. 0100330-1 CAN, C3A C22.2 NO.00330-1-07

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Power

Power Supply	12V DC/PoE
Power Consumption	< 4.5W

Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/ less than 95%		
Storage Conditions	-40°C to +60°C (-40°F to +140°F)		
Protection Grade	IP67		

Structure

Casing	Inner core: Metal Cover: Metal Decoration ring: Plastic
Dimensions	99.1 mm × Φ121.9 mm (3.9" × Φ4.8")
Net Weight	480 g (1.05 lb)
Gross Weight	660 g (1.45 lb)

Ordering Information

ordering information					
Туре	Part Number	Description			
4MP	DH-IPC-HDW3449TMP-AS-NI	4MP Full-color Fixed-focal Eyeball WizSense Network Camera, PAL			
Camera	DH-IPC-HDW3449TMN-AS-NI	4MP Full-color Fixed-focal Eyeball WizSense Network Camera, NTSC			
	PFA130-E	Junction Box			
	PFB203W	Wall mount			
	PFA152-E	Pole mount			
Accessories	PFM321D	DC12V1A Power adapter			
(optional)	LR1002-1ET/1EC	Single-port long reach ethernet over coax extender			
	PFM900-E	Integrated mount tester			
	PFM114	TLC SD card			

Accessories

Optional:







PFA130-E Junction Box

PFB203W Wall Mount

PFA152-E Pole Mount









PFM321D DC12V1A Power Adapter

LR1002-1ET/1EC Single-port long reach ethernet over coax extender

Integrated Mount tester



PFM114 TLC SD card

Junction Mount	Wall Mount	Pole Mount
PFA130-E	PFB203W	PFB152-E+PFA203W

Dimensions (mm[inch])

