

DH-IPC-HDW3249TM-AS-NI

2MP 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 Codec (H.265+ & 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.

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080) @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.



WDR

120 dB

Technical Sp	pecificati	ion					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Camera							Gain Control	Auto/Manual
Image Sensor		1/2.8"2Megapixel progressive CMOS					Noise Reduction	3D DNR
Max. Resolution		1920 (H) × 1080 (V)					Motion Detection	OFF/ON (4 areas, rectangular)
ROM		128 MB					Region of Interest (RoI)	Yes (4 areas)
RAM		512 MB					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
Scanning System		Progressive						resolution and lower.)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Mirror	Yes
Min. Illumination		0.0015 Lux@F1.0					Privacy Masking	4 areas
S/N Ratio		> 56 dB					Audio	
Pan/Tilt/Rotation Range		Horizontal: 0°–360°; vertical: 0°–78°; rotation: 0°–360°					Built-in MIC	Yes
Lens							Audio Compression	G.711a; G.711Mu; G726
Lens Type		Fixed-focal					Alarm	
Mount Type Focal Length		M12 2.8 mm; 3.6 mm					Alarm Event	No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security
Max. Aperture		F1.0						exception; motion detection; video tampering; scene changing; intensity change; tripwire; intrusion; SMD
Field of View		2.8 mm: Horizontal 107° × vertical 55° × diagonal 127° 3.6 mm: Horizontal 84° × vertical 45° × diagonal 99°					Network	
Iris Type		Fixed					Network	RJ-45 (10/100 Base-T)
Close Focus Dis	Close Focus Distance		2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.7 m (5.6 ft)				SDK and API	Yes
	Lens	Detect	Observe	Recognize	Identify		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
DORI Distance	2.8mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)			
	3.6mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)		Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509
Professiona	l, Intellig	ent				,	certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
Perimeter Protection		Tripwire, intrusion (Recognition of vehicle and people) Work together with Smart NVR to perform refine					Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec
Intelligent Search		intelligent search, event extraction and merging to event videos					Scene self-adaptation (SSA)	Yes
Video							User/Host	20 (Total bandwidth: 64M.)
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Smart Codec		Smart H.265+/ Smart H.264+					Browser	IE: IE8; IE9; IE11 Chrome
Video Frame Rate		Main stream (1920 × 1080 @ 1–25/30 fps) sub stream (704 × 576 @ 1–25/704 × 480 @ 1-30 fps) third stream (1280 × 720 @ 1–25/30 fps)					Management Software	Firefox Smart PSS; DSS; DMSS
Stream Capability		3 streams					Mobile Phone	IOS; Android
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Certification	25.112.5112222
Bit Rate Control		CBR; VBR					Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive
Video Bit Rate		H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps						2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Day/Night		Color/B/W					Power	
BLC		Yes					Power Supply	12V DC/PoE

Power Consumption

< 4.1W

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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 Part Number Description Type 2MP Full-color Fixed-focal Eyeball DH-IPC-HDW3249TMP-AS-NI WizSense Network Camera, PAL 2MP Camera 2MP Full-color Fixed-focal Eyeball DH-IPC-HDW3249TMN-AS-NI WizSense Network Camera, NTSC PFA130-E Junction Box PFB203W Wall mount PFA152-E Pole mount PFM321D DC12V1A Power adapter Accessories (optional) Single-port long reach ethernet over LR1002-1ET/1EC 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])

