



DH-IPC-HDW2541TM-S

5MP IR Fixed-focal Eyeball WizSense Network Camera





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.

System 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

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.

Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition
- \cdot Outputs max. 5 MP (2592 × 1944) @20 fps, and supports 4 MP (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, 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, scene changing, 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.













WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

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 works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification					5M (2592 × 1944); 4M (2688 × 1520); 3M (2304 × 1296);			
Camera							Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/2.7" CMOS					Bit Rate Control	CBR/VBR
Max. Resolution		2592 (H) × 1944 (V)					Video Bit Rate	H.264: 3 kbps-8192 kbps
ROM		128 MB						H.265: 3 kbps-8192 kbps
RAM		512 MB					Day/Night	Auto(ICR)/Color/B/W
Scanning Sys	stem	Progressive					BLC	Yes
Electronic Sh	nutter Speed	Auto/Manual 1/3 s–1/100,000 s					HLC	Yes
Min. Illumination		0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					WDR Scene Self-adaptation (SSA)	120 dB Yes
S/N Ratio		>56 dB					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illumination	Distance	30 m (98.43 ft) (IR LED)					Gain Control	Auto; Manual
Illuminator (On/Off Control	Auto; Manua	I				Noise Reduction	3D DNR
Illuminator N	Number	1(IR LED)					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rot	ation Range	Pan: 0°–360° Tilt: 0°–78°					Region of Interest (RoI)	Yes (4 areas)
Tany my Notation Name		Rotation: 0°–360°					Smart Illumination	Yes
Lens Type		Fixed-focal					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Lens Mount		M12					Mirror	Yes
Focal Length			2.8 mm; 3.6 mm				Privacy Masking	4 areas
Max. Apertu	ıre	F1.6					Audio	
Field of View	,	2.8 mm: H: 97°; V: 71° ; D: 129°					Built-in MIC	Yes
Iris Control		3.6 mm: H: 80°; V: 57° ; D: 107°					Audio Compression	G.711a; G.711Mu; PCM; G.726
		2.8 mm: 1.1 m (3.61 ft)				Alarm		
Close Focus	Distance	3.6 mm: 1.7 m (5.58 ft)					No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion	
DORI	Lens	Detect 63.6 m	Observe 25.4 m	Recognize 12.7 m	Identify 6.4 m		Alarm Event detection; video tampering; tripwire; int changing; audio detection; voltage detec	detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; SMD;
Distance	2.8 mm	(208.66 ft)	(83.33 ft)	(41.67 ft)	(21.00 ft)		N	security exception
	3.6 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)		Network Natural Part	DI 45 /40/400 P T\
Intelligen	ce						Network Port	RJ-45 (10/100 Base-T)
IVS (Perimet	er Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)					SDK and API	Yes Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Video		H.265; H.264; H.264H; H.264B; MJPEG (Only supported					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
Video Compression		by the sub stream)					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Smart Codec		Smart H.265+; Smart H.264+					User/Host	20 (Total bandwidth: 64 M)
Video Frame Rate		Main stream: 2592 × 1944@(1–20 fps)/2688 × 1520@ (1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)					Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Stream Capability		fps) 2 streams					Browser	IE Chrome Firefox

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2014/30/EU

Management Software	Smart PSS; DSS; DMSS		
Mobile Client	iOS; Android		
Certification			
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive		

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 3.8 W (12 VDC); 4.9 W (PoE) Max (WDR + IR intensity + Intelligence on): 6.1 W (12 VDC); 6.7 W (PoE)

FCC: 47 CFR FCC Part 15, Subpart B

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Protection	IP67		

Structure

Casing	Inner core: Metal Cover: Metal Decoration ring: Plastic
Product Dimensions	99.1 mm × Φ121.9 mm (3.90" × Φ4.80")
Net Weight	485 g (1.07 lb)
Gross Weight	665 g (1.47 lb)

Ordering Information				
Туре	Model	Description		
5MP Camera	DH-IPC-HDW2541TM-S- 0280B	5MP IR Fixed-focal Eyeball WizSense Network Camera		
SIVIP Calliera	DH-IPC-HDW2541TM-S- 0360B	5MP IR Fixed-focal Eyeball WizSense Network Camera		
	PFA130-E	Junction Box		
	PFB205W-E	Wall Mount Bracket		
	PFA109	Mount Adapter		
Accessories	PFA152-E	Pole Mount Bracket		
(Optional)	PFB220C	Ceiling Mount Bracket		
	PFM321D	12V DC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:







PFA130-E Junction Box

PFB205W-E Wall Mount Bracket

PFA109 Mount Adapter







PFA152-E Pole Mount Bracket

PFB220C Ceiling Mount Bracket

12V DC 1A Power Adapter





PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card

Junction Mount	Ceiling Mount	Wall Mount	
Pole Mount(Vertical)			

Dimensions (mm[inch])

