



DH-IPC-HDW2541T-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.

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.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition
- 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 and 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 1-channel MIC.
- 12 VDC/PoE power supply, easy for installation.
- · IP67 protection.
- · SMD Plus.













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)					H.264: 3 kbps–8192 kbps	
ROM		128 MB					Video Bit Rate	H.265: 3 kbps–8192 kbps
RAM	RAM		512 MB				Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive					BLC	Yes
Electronic Sh	Electronic Shutter 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						Auto; natural; street lamp; outdoor; manual; regional
Illumination	Distance	30 m (98.43 ft) (IR LED)					White Balance	custom
Illuminator C	On/Off Control	Auto;Manual					Gain Control	Auto; Manual
Illuminator N	Number	1(IR LED)					Noise Reduction	3D DNR
		Pan: 0°-360°					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation Range		Tilt:0°-78° Rotation:0°-360°				Region of Interest (RoI)	Yes (4 areas)	
Lens						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	Focal Length		2.8 mm; 3.6 mm				Privacy Masking	4 areas
Max. Apertu	re	F1.6				Audio		
Field of View	1	2.8 mm: H: 97°; V: 71° ; D: 129° 3.6 mm: H: 80°; V: 57° ; D: 107°				Built-in MIC	Yes	
Iris Control		Fixed					Audio Compression	G.711a; G.711Mu; PCM; G.726
Close Focus Distance		2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (5.58 ft)					Alarm	N 60 160 161160 1 1 1 1
DORI	Lens 2.8 mm	Detect 63.6 m (208.66 ft)	Observe 25.4 m (83.33 ft)	Recognize 12.7 m (41.67 ft)	6.4 m (21.00 ft)		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; SMD; security exception
Distance	3.6 mm	85.4 m	34.2 m	17.1 m	8.5 m		Network	
1 1 11:		(280.18 ft)	(112.20 ft)	(56.10 ft)	(27.89 ft)		Network Port	RJ-45 (10/100 Base-T)
Intelligen	ce	Tripuire, intrusion/the true functions support the					SDK and API	Yes
IVS (Perimet	IVS (Perimeter Protection)		Tripwire; intrusion(the two functions support the classification and accurate detection of vehicle and human)				Cyber Security	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						IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Video Compression H.		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;
Smart Codec		Smart H.265+; Smart H.264+					User/Host	Genetec 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				Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS	
Stroom Conshills		fps)				Browser	IE Chrome	
Stream Capability 2 streams			DIOWSCI	Firefox				

Management Software	Smart PSS; DSS; DMSS
Mobile Client	iOS; Android
Certification	

Certifications
Certifications

Power

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)		

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: Plastc	
Product Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")	
Net Weight	392 g (0.86 lb)	
Gross Weight	572 g (1.26 lb)	

Ordering Information			
Туре	Model	Description	
5MP Camera	DH-IPC-HDW2541T-S-0280B	5MP IR Fixed-focal Eyeball WizSense Network Camera	
	DH-IPC-HDW2541T-S-0360B	5MP IR Fixed-focal Eyeball WizSense Network Camera	
	PFA13G	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:







PFA136 Junction Box

PFB205W-E Wall Mount Bracket

PFA109 Mount Adapter





PFA152-E Pole Mount Bracket

PFB220C Ceiling Mount Bracket

PFM321D 12V DC 1A Power Adapter





PFM900-E Integrated I Mount Tester Me

TF-P100 MicroSD Memory Card

Junction Mount	Ceiling Mount	Wall Mount	
Pole Mount(Vertical)			

Dimensions (mm[inch])

