



dahua TECHNOLOGY DH-IPC-HDW2541T-ZS 5MP IR Vari-Focal Eyeball WizSense Network Camera User Manual

[Home](#) » [Dahua Technology](#) » dahua TECHNOLOGY DH-IPC-HDW2541T-ZS 5MP IR Vari-Focal Eyeball WizSense Network Camera User Manual 



Contents

- [1 DH-IPC-HDW2541T-ZS 5MP IR Vari-Focal Eyeball WizSense Network Camera](#)
- [2 Series Overview](#)
- [3 Functions](#)
- [4 Technical Specification](#)
- [5 Ordering Information](#)
- [6 Accessories](#)
- [7 Dimensions \(mm\[inch\]\)](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)

DH-IPC-HDW2541T-ZS 5MP IR Vari-Focal Eyeball WizSense Network Camera

DAHUA kamera za video nadzor IPC-HDW2541T-ZS-27135 5MP IR Network



<https://tehnoteka.rs/p/dahua-kamera-za-video-nadzor-ipc-hdw2541t-zs-27135-5mp-irnetwork-akcija-cena/>

DH-IPC-HDW2541T-ZS

5MP IR Vari-focal Eyeball WizSense Network Camera



Wiz Sense

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.

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

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

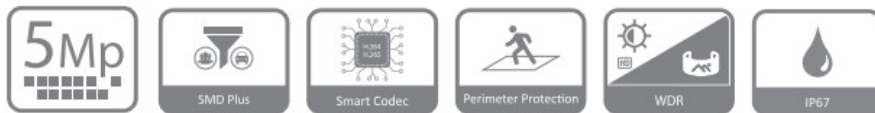
encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Perimeter Protection

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.

*The parameters and datasheets below can only be applied to 2541-S2 series.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 × 1668) @20 fps, and supports 2688 × 1520 (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 40 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.
- 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 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

Camera

Image Sensor	1/2.7" CMOS
Max. Resolution	2960 (H) × 1668 (V)
ROM	128 MB
RAM	256 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	Up to 40 m (131.23 ft) (IR)
Illuminator On/Off Contro	Auto; Manual
Illuminator Number	2 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°

Lens

Lens Type		Motorized vari-focal			
Lens Mount		φ14			
Focal Length		2.7 mm–13.5 mm			
Max. Aperture		F1.5			
Field of View		H: 113°–31°; V: 58°–18°; D: 138°–36°			
Iris Control		Fixed			
Close Focus Distance		0.8 m (2.62 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	64.0 m (210.00 ft)	25.6 m (84.00 ft)	12.8 m (42.00 ft)	6.4 m (21.00 ft)
	T	210.0 m (689.00 ft)	84.0 m (275.60 ft)	42.0 m (137.80 ft)	21.0 m (68.90 ft)

Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos

Video

Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Video Frame Rate	Main stream: 2960 × 1668 @(1–20 fps)/2688 × 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 each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Stream Capability	2 streams
Resolution	2960 × 1668 (2960 × 1668); 2880 × 1620 (2880 × 1620); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (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)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 12 kbps–8192 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto; Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Mirror	Yes
Privacy Masking	4 areas

Audio

Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; PCM; G.726

Alarm

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; defocus detection; SMD; security exception
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Network

Network Port	RJ-45 (10/100 Base-T)
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; Bonjour; P2P
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
User/Host	20 (Total bandwidth: 48 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Browser	IE; Chrome; Firefox
Management Software	SmartPSS Lite; DSS; DMSS
Mobile Client	iOS; Android
Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lock out; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification

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
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Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.4 W (12 VDC); 3 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 6.2 W (12 VDC); 7.4 W (PoE)

Environmen

Operating Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	–40 °C to +60 °C (–40 °F to +140 °F)
Storage Humidity	≤95%
Protection	IP67

Structure

Casing Material	Metal
Product Dimensions	108.3 mm × Φ122 mm (4.26" × Φ4.80")
Net Weight	0.68 kg (1.50 lb)
Gross Weight	0.86 kg (1.90 lb)

Ordering Information


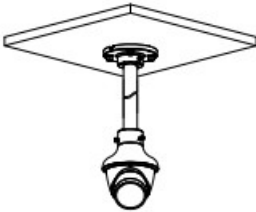


Type	Model	Description
5MP Camera	DH-IPC-HDW2541T-ZS	5MP IR Vari-focal Eyeball WizSense Network Camera
Accessories (Optional)	PFA130-E	Water-proof Junction Box
	PFB205W	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
	PFA106	Mount Adapter
	PFB220C	Ceiling Mount Bracket
	PFM321D	12 VDC 1A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card

Accessories

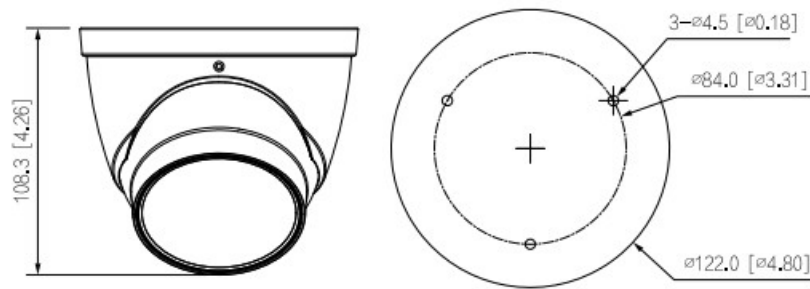
Optional:

		
PFA130-E Water-proof Junction Box	PFB205W Wall Mount Bracket	PFA152-E Pole Mount Bracket
		
PFA106 Mount Adapter	PFB220C Ceiling Mount Bracket	PFM321D 12 VDC 1A Power Adapter
		
PFM900-E Integrated Mount Tester	TF-P100 MicroSD Memory Card	

Wiz Sense DH-IPC-HDW2541T-ZS-S2

Junction Mount	Ceiling Mount
	
Wall Mount	Pole Mount (Vertical)
	

Dimensions (mm[inch])



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The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.



www.dahuasecurity.com
<https://tehnnoteka.rs>

Documents / Resources

	<p>dahua TECHNOLOGY DH-IPC-HDW2541T-ZS 5MP IR Vari-Focal Eyeball WizSense Network Camera [pdf] User Manual</p> <p>DH-IPC-HDW2541T-ZS 5MP IR Vari-Focal Eyeball WizSense Network Camera, DH-IPC-HDW2541T-ZS, 5MP IR Vari-Focal Eyeball WizSense Network Camera, Vari-Focal Eyeball WizSense Network Camera, Eyeball WizSense Network Camera, WizSense Network Camera, Network Camera, Camera</p>
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References

- [TCPDF](#)
- [Tehnnoteka - Poređenje cena i karakteristika - Kupujte pametno](#)
- [Tehnnoteka - Poređenje cena i karakteristika - Kupujte pametno](#)
- [User Manual](#)

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