

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

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Number Partial isource Soluming version Soluming versio	ROM		128 MB					Stream Capability	2 streams
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Relation: 0°-360° White Balance custom Lens Auto: Manual Auto: Manual Lens Nou								WDR	120 dB
Lens Type Motorized vari-focal Source (article) Source (article) Lens Mount 043 Source (article) Source (article) Focal Lengt 2,7 mm-13 - Focal Source (article) Motorized (article) Region of Interest (Rot) Source (article) Max. Aperture F15.5 F15.5 F15.5 Source (article) Source (article) Source (article) Region of Interest (Rot) Yes (4 areas) Field of View Rescal Rescal Image Rotation Or/967/180/270* (Support 90/270* with 2688 x 1520 areas) Field of View Rescal Rescal Image Rotation Yes (4 areas) Field of View Rescal Identify it a standard system (F1000) Rescal Audio Finds (Brouge - Field or (article) Rescal 21.0 m (21.0 m) Rescal Audio DOR (Concertifie) Rescal 21.0 m (21.0 m) C1.0 m) Rescal TO RO (Doe (Concertifie) Rescal 21.0 m (21.0 m) C1.0 m) Rescal TO RO (Doe (Concertifie) Rescal 21.0 m (21.0 m) Rescal Audio To RO (Doe (Concertifie) Rescal C1.0 m) Rescal Audio To RO (Doe (Concertifie) Rescal Rescal Rescal Rescal To RO (Doe (Concertifie)	Pan/Tilt/Rotation Range		Tilt: 0°-78°					White Balance	
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Distance *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/ project design tool. No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage de	DORI	т						Audio Compression	G.711a; G.711Mu; PCM; G.726
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IVS (Perimeter Protection) classification and accurate detection of vehicle and human) Network Port RJ-45 (10/100 Base-T) Smart Search Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos SDK and API Yes Video IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTM; SMTP; FTP; SFTP; DHCP; DNS; DDNS; DOS; UPPP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour; P2P Interoperability ONVIF (Profile S/Profile G/Profile T); CGI	-				Network				
Smart Search Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos SDK and API Yes Video IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTM SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour; P2P Video Compression I.265; H.264; H.264B; MJPEG (Only supported by the sub stream) Interoperability ONVIF (Profile S/Profile G/Profile T); CGI	IVS (Perimeter Protection)		classification and accurate detection of vehicle and					Network Port	RJ-45 (10/100 Base-T)
videos IPv4; IPv6; HTTP; TCP; UDP; ARP; RTSP; RT	Smart Search		Work together with Smart NVR to perform refine					SDK and API	Yes
Video Compression H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) Interoperability ONVIF (Profile S/Profile G/Profile T); CGI								Network Protocol	
Smart Codec Smart H.265+; Smart H.264+ User/Host 20 (Total bandwidth: 48 M)	Video Compression							Interoperability	
	Smart Codec		Smart H.265+; Smart H.264+					User/Host	20 (Total bandwidth: 48 M)

Storage

FTP; SFTP; Micro SD card (support max. 256 GB); NAS

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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 lockout; 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				
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)				
Environment					
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							
Туре	Model	Description					
5MP Camera	DH-IPC-HDW2541T-ZS	5MP IR Vari-focal Eyeball WizSense Network Camera					
	PFA130-E	Water-proof Junction Box					
	PFB205W	Wall Mount Bracket					
	PFA152-E	Pole Mount Bracket					
Accessories	PFA106	Mount Adapter					
(Optional)	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



PFA106 Mount Adapter



PFM900-E Integrated Mount Tester



Wall Mount

Bracket

0

PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1A Power Adapter

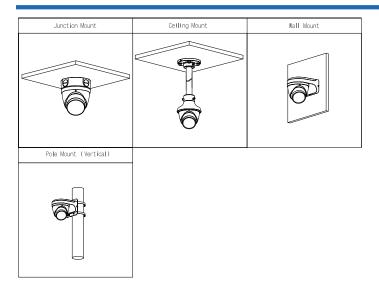


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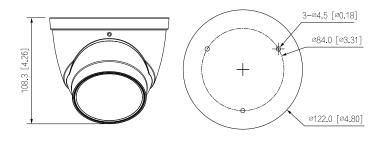
256_{GB} ⊎ 42

MicroSD Memory Card

Wiz Sense | DH-IPC-HDW2541T-ZS-S2



Dimensions (mm[inch])



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