

Wiz Sence DH-IPC-HDBW2241E-S 2MP IR Fixed-focal Dome WizSense Network Camera Owner's Manual

Home » Wiz Sence DH-IPC-HDBW2241E-S 2MP IR Fixed-focal Dome WizSense Network Camera Owner's Manual

Wiz Sence DH-IPC-HDBW 2241-S 2MP IR Fixed-focal Dome WizSense Network Camera



Launched by Dahua Technology, Wizens 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 Dehua's advanced technologies, Wizens provides intelligent, simple and inclusive products and solutions.

Contents

- 1 System Overview
- 2 Functions
- **3 Technical Specification**
- 4 Ordering Information
- **5 Accessories**
- **6 Installation**
- 7 Dimensions (mm[inch])
- **8 Customer Support**
- 9 Documents /
- Resources
 - 9.1 References

System Overview

With advanced deep learning algorithm, Dahua Wiz Sense 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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@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).
- Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67 and IK10 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, IK10, 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. IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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		1/2.8" CMOS	1/2.8" CMOS			
Max. Resolution		1920 (H) × 1	1920 (H) × 1080 (V)			
ROM		128 MB	128 MB			
RAM		128 MB	128 MB			
Scanning System		Progressive	Progressive			
Electronic Shutter Speed		Auto/Manua	Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.0002 lux@	0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>56 dB	>56 dB			
Illumination Distance		up to 30 m (up to 30 m (98.43 ft) (IR LED			
Illuminator On/Off Control		Auto; Manua	Auto; Manual			
Illuminator Number		3 (IR LED)	3 (IR LED)			
Pan/Tilt/Rotation Rang	ge	Pan: 0°-355	Pan: 0°-355° Tilt: 0°-65° Rotation: 0°-355°			
Lens		'				
Lens Type		Fixed-focus	Fixed-focus			
Lens Mount		M12	M12			
Focal Length		2.8 mm; 3.6	2.8 mm; 3.6 mm			
Max. Aperture		F1.6	F1.6			
Max. Aperture		2.8 mm: H: 1 ; D: 105°	2.8 mm: H: 106°; V: 56°; D: 127° 3.6 mm: H: 88°; V: 44 ; D: 105°			
Iris Control		Fixed	Fixed			
Close Focus Distance		2.8 mm: 0.7	2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.3 m (4.27 ft)			
	Lens	Detect	Observe	Recognize	Identify	
	2.8 mm	43.9 m (144.03 ft)	17.5 m (57. 41 ft)	8.8 m (28.8 7 ft)	8.8 m (28.8 7 ft)	
	2.8 mm	8.8 m (28.8 7 ft)	8.8 m (28.8 7 ft)	8.8 m (28.8 7 ft)	8.8 m (28.8 7 ft)	

*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) f or 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 commissi oning manual/ project design tool.

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 intelli gent search, event extraction and merging to event vid eos		
Video			
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only support ed by the sub stream)		
Smart Codec	Smart H.265+; Smart H.264+		
Video Frame Rate	Main stream: $1920 \times 1080@(1-25/30 \text{ fps})$ Sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480@(1-30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the tot al encoding capacity		
Stream Capability	2 streams		
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CI F (352 × 288/352 × 240)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
White Balance	Auto; natural; street lamp; outdoor; manual; regional c ustom		
Gain Control	Manual; Auto		
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 1080p resolut ion and lower)		
Mirror	Yes		

Privacy Masking	4 areas	
Audio		
Built-in MIC	Yes	
Audio Compression	G.711a; G.711Mu; G.726; PCM	
Alarm		
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; v deo tampering; tripwire; intrusion; audio detection; volt age detection; SMD; security exception	
Network	•	
Network Port	Management Software	
SDK and API	Yes	
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI	
User/Host	6 (Total bandwidth: 36 M)	
Storage	FTP; SFTP; Micro SD card (support max. 256 GB)	
Browser	IE; Chrome; Firefox	
Management Software	DSS; DMSS	
Mobile Client	iOS; Android	
Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/ MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted dexecution; Trusted upgrade	
Certification		
Certifications	CE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive /30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL 62368-1 & CAN/CSA C22.2 No. 6236	
Power	·	
Power Supply	12 VDC/PoE	
Power Consumption	Basic: 1.9 W (12 VDC); 2.5 W (PoE) Max. (ICR + H.26 5 + WDR + max. Illumination + intelligence on): 4.7 W (12 VDC); 5.6 W (PoE)	
Environment		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤95%	

Protection	IP67; IK10	
Structure		
Casing Materia	Metal	
Product Dimensions	81.0 mm × Φ109.9 mm (3.19" × Φ4.33")	
Net Weight	0.34 kg (0.75 lb)	
Gross Weight	0.49 kg (1.08 lb)	

Ordering Information

Туре	Model	Description	
2MP Camera	DH-IPC-HDBW2241E-S	2MP IR Fixed-focal Dome Wiz Sense Netw ork Camera	
	PFA136	Junction Box	
	PFA136	Wall Mount Bracket	
	PFA109	Mount Adapter	
	PFB220C	Ceiling Mount Bracket	
	PFA152-E	Pole Mount Bracket	
Accessories (Optional)	PFA150	Pole Mount Bracket	
	PFB305W	Wall Mount Bracket	
	PFA151	Corner Mount Bracket	
	PFM321D	12 VDC 1 A Power Adapter	
	PFM900-E	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	

Accessories

Optional

• PFA136 Junction Box



• PFB203W Wall Mount Bracket



• PFA109 Mount Adapter



• PFB220C Ceiling Mount Bracket



• PFA152-E Pole Mount Bracket



• PFA150 Pole Mount Bracket



• PFB305W Wall Mount Bracket



• PFA151 Corner Mount Bracket



• PFM321D 12 VDC 1A Power Adapter



• PFM900-E Integrated Mount Tester

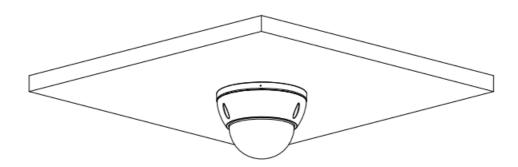


TF-P100 MicroSD Memory Card

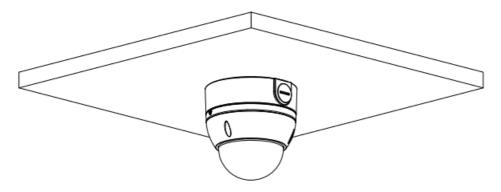


Installation

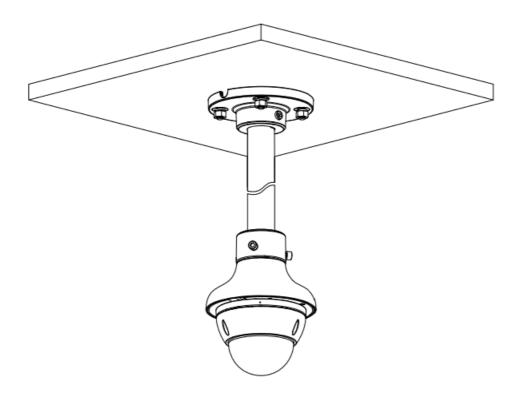
• Ceiling Mount



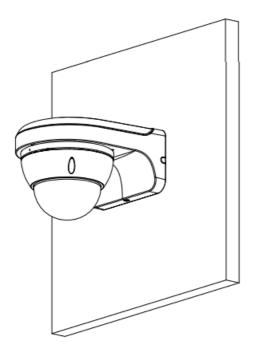
• Junction Mount



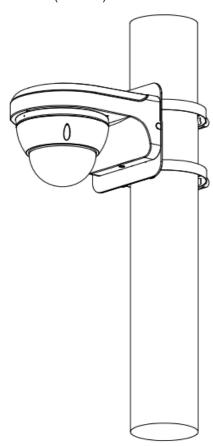
• Ceiling Mount



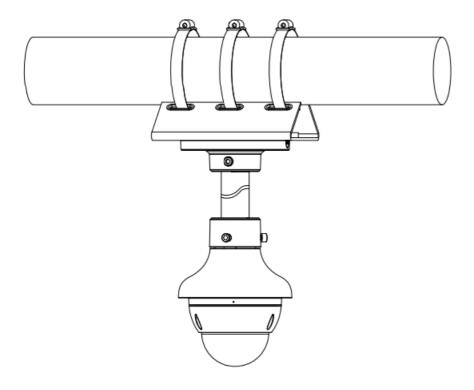
• Wall Mount



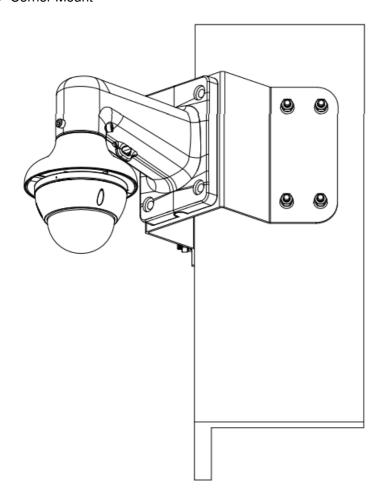
• Pole Mount(Vertical)



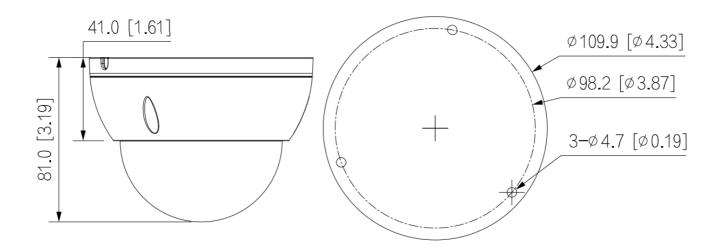
• Pole Mount(Horizontal)



• Corner Mount



Dimensions (mm[inch])



Customer Support

© 2024 Dahua. All rights reserved. Design and specifications are subject to change without notice. The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.

www.dahuasecurity.com





Documents / Resources



<u>Wiz Sence DH-IPC-HDBW2241E-S 2MP IR Fixed-focal Dome WizSense Network Camera</u> [pdf] Owner's Manual

DH-IPC-HDBW2241E-S 2MP IR Fixed-focal Dome Wiz Sense Network Camera, DH-IPC-HDB W2241E-S 2MP, IR Fixed-focal Dome Wiz Sense Network Camera, Dome Wiz Sense Network Camera, Sense Network Camera, Network Camera, Camera

References

- @ Dahua Technology World Leading Video-Centric AloT Solution & Service Provider
- User Manual

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetoc
SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.