

DH-IPC-HDBW3466EP-AS-AUS

4MP IR Fixed-focal Dome 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

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its AI Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Quick Pick, and AI SSA (AI Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

Functions

SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

AI SSA

Dahua AI Scene Self-adaptation (AI SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

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.

- 4-MP 1/3" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 4 MP (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, max. IR distance: 50 m.
- ROI, SMART H.264 +/H.265+, AI 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 detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out (Only AS supports); audio: 1 in, 1 out (Only AS supports); max. 256 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply facilitates installation.
- IP67, IK10 protection.
- SMD 4.0, AI SSA.



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.

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 works normal 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.

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 comprising the device.

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Technical Specification Camera 1/3" CMOS Image Sensor Max. Resolution 2688 (H) × 1520 (V) ROM 128 MB RAM 512 MB Scanning System Progressive Auto/Manual 1/3 s-1/100,000 s **Electronic Shutter Speed** 0.005 lux@F1.4 (Color, 30 IRE) Min. Illumination 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on) S/N Ratio >56 dB Illumination Distance 50 m (164.04 ft) Illuminator On/Off Control Auto/Manual 3 (IR LED) Illuminator Number Pan/Tilt/Rotation Range Pan: 0°-355°; Tilt: 0°-80°; Rotation: 0°-355° Lens Lens Type Fixed-focal Lens Mount M12 2.8 mm; 3.6 mm; 6 mm Focal Length F1.4 Max. Aperture 2.8 mm: Horizontal:107°; vertical: 56°; diagonal: 127° 3.6 mm: Horizontal:88°; vertical: 44°; diagonal: 105° Field of View 6 mm: Horizontal:54°; vertical: 29°; diagonal: 63° Iris Control Fixed 2.8 mm: 0.7 m (2.30 ft) Close Focus Distance 3.6 mm: 1.3 m (4.27 ft) 6 mm: 2.6 m (8.53 ft) Lens Detect Observe Recognize Identify 63.6 m 25.4 m 12.7 m 6.4 m 2.8 mm (208.66 ft) (83.33 ft) (41.67 ft) (21.00 ft) DORI Distance 85.4 m 34.2 m 17.1 m 8.5 m 3.6 mm (280.18 ft) (112.20 ft) (56.10 ft) (27.89 ft) 24.8 m 124 m 49.6 m 12.4 m 6 mm (406.82 ft) (81.36 ft) (40.68 ft) (162.72 ft) Intelligence Tripwire, intrusion (support the classification and **IVS (Perimeter Protection)** accurate detection of vehicle and human) AI SSA Yes With AI NVR, quickly pick up the human/vehicle targets Quick Pick that users are interested in from SMD events Work together with Smart NVR to perform refine Smart Search intelligent search, event extraction and merging to event videos

Video

Video Compression

Smart Codec

AI Coding	AI H.265 AI H.264
Video Frame Rate	Main stream: $2688 \times 1520 @ (1-25/30)$ fps Sub stream 1: $704 \times 576 @ (1-25 fps)/704 \times 480 @ (1-30 fps)$ Sub stream 2: $1920 \times 1080 @ (1-25/30 fps)$ *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	3 streams
Resolution	4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304×1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
Scene Self-adaptation (SSA)	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Defog	Yes
AFSA	Yes
Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (support $90^\circ/270^\circ$ 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; G.723
Alarm	
Alarm Event	 - AS: No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; external alarm; SMD; safety exception -S: No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; SMD; safety exception
Network	
Network Port	RJ-45 (10/100 Base-T)

H.265; H.264; H.264H; H.264B; MJPEG (only supported

by the sub stream) Smart H.265+

Smart H.264+

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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; SAMBA; PPPoE; SNMP		
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 execution; Trusted upgrade		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec		
User/Host	20 (Total bandwidth: 64 M)		
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS		
Browser	IE:IE11 Chrome Firefox		
Management Software	Smart PSS; DSS; DMSS		
Mobile Client	IOS; Android		
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		
Port			
Audio Input	1 channel (RCA port) (Only- AS supports)		
Audio Output	1 channel (RCA port) (Only- AS supports)		
Alarm Input	1 channel in: 5 mA 3–5 VDC (Only- AS supports)		
Alarm Output	1 channel out: 300 mA 12 VDC (Only- AS supports)		
Power			
Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 2.8 W (12 VDC); 3.5 W (PoE) Max. (WDR + IR intensity + Intelligence): 7.1 W (12 VDC); 8.3 W (PoE)		
Environment			
Operating Temperature	–40 °C to +60 °C (–40 °F to 140 °F) /Less than 95% RH		
Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)		
Protection	IP67; IK10		
Structure			
Casing	Metal		
Product Dimensions	89.1 mm × Φ111.7 mm (3.51" × Φ4.40")		
Net Weight	516 g (1.14 lb)		

670 g (1.48 lb)

Gross Weight

Ordering Information Туре Model Description 4MP IR Fixed-focal Dome DH-IPC-HDBW3466EP-AS-AUS WizSense Network Camera 4MP Camera 4MP IR Fixed-focal Dome DH-IPC-HDBW3466EP-AS-AUS WizSense Network Camera PFA136 Junction Box PFA109 Mount Adapter PFB220C Ceiling Mount Brack PFB203W Wall Mount Accessories (Optional) PFA152-E Pole mount PFM321D 12 VDC 1 A Power Adapter PFM900-E Integrated Mount Tester TF-P100 TLC SD Card

Accessories

Optional:



Box



PFA109

Mount

Adapter

PFB220C Ceiling Mount Brack



PFB203W

Wall

Mount



mount



12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester

PFM321D

TF-P100 TLC SD Card

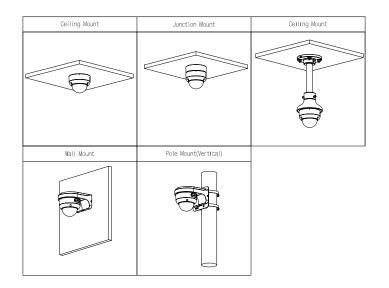
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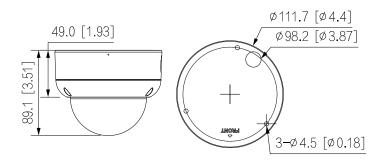




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Dimensions (mm[inch])



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