

DH-IPC-HDBW3866EP-AS-AUS-BLK

8MP 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.

- 8-MP 1/2.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 8 MP (3840 × 2160) @25/30 fps.
- H.265 codec allows high compression ratio and ultra-low bit rate.
- · Built-in IR LED, max. IR distance: 30 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.

Technical Specification					Main stream: 3840 × 2160 @ (1–25/30) fps Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @			
Camera						Video Frame Rate	(1–30 fps) Sub stream 2: 1920 × 1080 @ (1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected	
Image Sensor		1/2.8" CMOS						
Max. Resolution		3840 (H) × 2160 (V)				Stream Capability	to the total encoding capacity 3 streams	
ROM	ROM		128 MB					8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×
RAM		1 GB				Resolution	1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p	
Scanning Sys	Scanning System		Progressive				Resolution	(1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Bit Rate Control	(640 × 480) CBR/VBR	
Min. Illumina	Min. Illumination		0.007 lux@F1.4 (Color, 30I RE) 0.0007 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)				Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
S/N Ratio		>56 dB				Day/Night	Auto (ICR)/Color/B/W	
Illumination	Distance	30 m (98.42 ft)				BLC	Yes	
Illuminator C	On/Off Control	Auto/Manual				HLC	Yes	
Illuminator N	lumber	3 (IR LED)					WDR	120 dB
Pan/Tilt/Rota	ation Range	Pan: 0°-355°; Tilt: 0°-80°; Rotation: 0°-355°				Scene Self-adaptation (SSA)	Yes	
Lens Lens Type		Fixed-focal				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Lens Mount			M12				Gain Control	Auto
Focal Length			2.8 mm; 3.6 mm				Noise Reduction	3D NR
Max. Aperture		F1.4				Motion Detection	OFF/ON (4 areas, rectangular)	
Field of View			2.8 mm: Horizontal:107°; vertical: 56°; diagonal: 127°				Region of Interest (RoI)	Yes (4 areas)
			3.6 mm: Horizontal:84°; vertical: 47°; diagonal: 97°				Defog	Yes
Iris Control		3.8 mm 1.5 m (4.0 ft)				AFSA	Yes	
Close Focus		2.8 mm: 1.5 m (4.9 ft) 3.6 mm: 2 m (6.6 ft)			Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with $2688{\times}1520$ resolution and lower)		
505	Lens	Detect 87.7 m	Observe 35.1 m	Recognize	Identify 8.8 m		Mirror	Yes
DORI Distance	2.8 mm	(287.73 ft)	(115.16 ft)	(57.41 ft)	(28.87 ft)		Privacy Masking	4 areas
	3.6 mm	102.1 m (334.97 ft)	40.8 m (133.86 ft)	20.4 m (66.93 ft)	10.2 m (33.46 ft)		Audio	
Intelligen	ce						Built-in MIC	Yes
IVS (Perimet	er Protection)	Tripwire, intrusion (support the classification and accurate detection of vehicle and human)				Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
AI SSA		Yes				Alarm		
Quick Pick			With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events					- AS: No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Alarm Event	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
Video								
Video Comp	Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					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
Smart Codeo	Smart Codec		Smart H.265+ Smart H.264+					
AI Coding		AI H.265 AI H.264				Network		
							Network Port	RJ-45 (10/100 Base-T)

JIII Dellise		
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;	

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	CE-EMC: Electromagnetic Compatibility Directive
Certifications	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: 4 W (12 VDC); 4.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 8.5 W (12 VDC); 9.7 W (PoE)		

Environment

Operating Temperature -40°C to +60°	-40°C to +60°C (–40°F to 140°F) /Less than 95% RH		
Storage Temperature -40°C to +60°	-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)		
Gross Weight	670 g (1.48 lb)		

Ordering Information				
Туре	Model	Description		
ONAD Compare	DH-IPC-HDBW3866EP-AS- AUS-BLK	8MP IR Fixed-focal Dome WizSense Network Camera		
8MP Camera	DH-IPC-HDBW3866EP-AS- AUS-BLK	8MP IR Fixed-focal Dome WizSense Network Camera		
	PFA137	Junction Box Bracket		
	PFA109	Mount Adapter		
	PFB220C	Ceiling Mount Bracket		
Accessories	PFB203W	Wall Mount		
(Optional)	PFA152-E	Pole mount		
	PFM321D	12 VDC 1 A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	TLC SD Card		

Accessories

Optional:



PFA136 Junction Box Bracket



PFB203W Wall Mount





PFA109

Mount

Adapter

PFA152-E Pole mount



PFB220C

Ceiling Mount

Brack

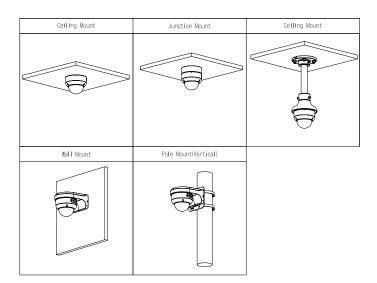
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card



Dimensions (mm[inch])

