

DH-IPC-HDBW3666EP-AS-AUS

6MP 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 Al 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 Al SSA (Al 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.

ΔΙ SSΔ

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.

- 6-MP 1/2.7" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 6 MP (3072 × 2048) @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; audio: 1 in, 1 out; max. 256 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply, easy for 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				Smart Codec	Smart H.265+ Smart H.264+			
Camera							Al Coding	AI H.265
Image Sensor		1/2.7" CMOS				5	Al H.264 Main stream: 3072 × 2048 @ (1–25/30) fps	
Max. Resolution		3072 (H) × 2048 (V)						Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps)
ROM		128 MB					Video Frame Rate	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 to the total encoding capacity
RAM		1 GB						
Scanning Sys	stem	Progressive					Stream Capability	3 streams
Electronic Sh	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					6M (3072 × 2048); 5M (2592 × 1944); 4M (2688 × 1520);
Min. Illumina	Min. Illumination		0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)				Resolution	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)
S/N Ratio		>56 dB					Bit Rate Control	CBR/VBR
Illumination		30 m (98.43 f					Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps
	On/Off Control	Auto/Manual					Day/Night	Auto (ICR)/Color/B/W
Illuminator N		3 (IR LED)					BLC	Yes
Pan/Tilt/Rot	ation Range	Pan: 0°–355°; Tilt: 0°–80°; Rotation: 0°–355°				HLC	Yes	
Lens						WDR	120 dB	
Lens Type		Fixed-focal				Scene Self-adaptation (SSA)	Yes	
Lens Mount		M12				White Balance	Auto; natural; street lamp; outdoor; manual; regional	
Focal Length		2.8 mm; 3.6 mm					Gain Control	custom
Max. Apertu	ire	F1.4				Noise Reduction	3D NR	
Field of View	1			rtical: 71°; Diag rtical: 57°; Diag			Motion Detection	OFF/ON (4 areas, rectangular)
Iris Control								
ins control		Fixed				Region of Interest (RoI)	Yes (4 areas)	
Close Focus	Distance	2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (18.37 ft)				Defog	Yes	
	Lens	Detect	Observe	Recognize	Identify		AFSA	Yes 0°/90°/180°/270° (support 90°/270° with 2688×1520
	2.8 mm	63.6 m	25.4 m	12.7 m	6.4 m		Image Rotation	resolution and lower)
DORI Distance	2.0	(208.66 ft) 85.4 m	(83.33 ft) 34.2 m	(41.67 ft) 17.1 m	(21.00 ft) 8.5 m		Mirror	Yes
Distance	3.6 mm	(280.18 ft)	(112.20 ft)	(56.10 ft)	(27.89 ft)		Privacy Masking	4 areas
							Audio	
Intelligence							Built-in MIC	Yes
IVS (Perimeter Protection)		Tripwire, intrusion (support the classification and					Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
AI SSA		accurate detection of vehicle and human) Yes					Alarm	
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events					Alarm Event	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 and
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					changing; audio detection; voltage detection; external alarm; SMD; safety exception	
Video							Network	
		H.265; H.264; H.264H; H.264B; MJPEG (only supported				Network Port	RJ-45 (10/100 Base-T)	
Video Compression		by the sub stream)				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)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5 mA 3–5 VDC
Alarm Output	1 channel out: 300 mA 12 VDC

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°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 (3.50" × Φ4.40")
Net Weight	516 g (1.14 lb)
Gross Weight	670 g (1.48 lb)

Ordering Information			
Туре	Model	Description	
6MP Camera	DH-IPC-HDBW3666EP-AS-AUS	6MP 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



PFA109 Mount Adapter



PFB220C Ceiling Mount Brack



PFB203W Wall Mount



PFA152-E Pole mount



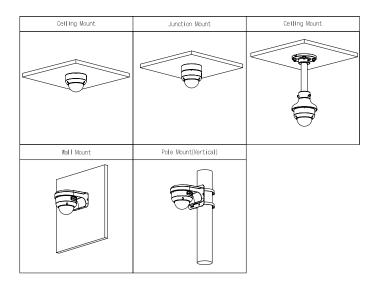
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card



Dimensions (mm[inch])

