

DH-IPC-HFW3666EP-AS-AUS

6 MP IR Fixed-focal Bullet WizSense Network Camera





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.

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.

- 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, high compression rate, 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
- 12 VDC/PoE power supply, easy for installation.
- IP67 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, 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.

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.

Video

Video Compression

Technical Specification			Smart Codec	Smart H.265+ Smart H.264+			
Camera					Al Coding	AI H.265 AI H.264	
Image Sensor 1/2.7" CMOS			Main stream: 3072 × 2048 @ (1–25/30) fps Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @				
Max. Resolution ROM		3072 (H) × 2048 (V) 128 MB			Video Frame Rate	(1–30 fps) Sub stream 2: 1920 × 1080 @ (1–25/30 fps)	
RAM		1 GB				*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity	
Scanning Sy	rstem	Progressive				Stream Capability	3 streams
Electronic S	hutter Speed	Auto/Manual 1/3 s-1/100,000 s				6M (3072 × 2048); 5M (2592 × 1944); 4M (2688 × 1520);	
Min. Illumir	nation	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 ft)			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		1 (IR LED)			BLC	Yes	
	tation Range	Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°			HLC	Yes	
Lens Type		Fixed-focal			WDR	120 dB	
Lens Mount		M12			Scene Self-adaptation (SSA)	Yes	
Focal Lengt	h	2.8 mm; 3.6 mm			White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Max. Apert	ure	F1.4			Gain Control	Auto	
Field of View	w	2.8 mm: Horizontal: 97°; Vertical: 71°; Diagonal: 129° 3.6 mm: Horizontal: 80°; Vertical: 57°; Diagonal: 107°			Noise Reduction	3D NR	
Iris Control		Fixed			Motion Detection	OFF/ON (4 areas, rectangular)	
					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
DORI Distance	2.8 mm	63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)	6.4 m (21.00 ft)	Image Rotation	0°/90°/180°/270° (support 90°/270° with 2688×1520 resolution and lower)
	3.6 mm	85.4 m	34.2 m	17.1 m	8.5 m	Mirror	Yes
		(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 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 Work together with Smart NVR to perform refine			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	
Smart Searc	ch	-		raction and me			changing; audio detection; voltage detection; external alarm; SMD; safety exception

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

by the sub stream)

Network

Network Port

SDK and API

RJ-45 (10/100 Base-T)

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; ECC: 47 CFR ECC Part 15, Subpart B:		

	CE-LVD: EN62368-1;
	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)
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: 3.1 W (12 VDC); 3.7 W (PoE) Max. (WDR + IR intensity + Intelligence): 5.3 W (12 VDC); 6.5 W (PoE)

Environment

Operating Temperature	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F})$ /Less than 95% (RH)
Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
Protection	IP67

Structure

Casing	Metal
Product Dimensions	192.7 mm × 70.5 mm × 66.4 mm (7.59" × 2.77" × 2.61") (L × W × H)
Net Weight	590 g (1.30 lb)
Gross Weight	780 g (1.72 lb)

Ordering Information			
Туре	Model	Description	
6 MP Camera	DH-IPC-HFW3666EP-AS-AUS	6 MP IR Fixed-focal Bullet WizSense Network Camera	
	PFA130-E	Junction Box	
	PFA152-E	Pole Mount	
Accessories (optional)	PFM321D	12 VDC 1 A Power Adapter	
,	PFM900-E	Integrated Mount Tester	
	TF-P100	TLC SD Card	

Accessories

Optional:







PFA152-E Pole Mount



12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

