



DH-IPC-HDW4866EMP-S-AUS

8MP IR Fixed-focal Eyeball WizSense Network Camera





Launched by Dahua Technology, Dahua WizSense is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizSense provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

Powered by its advanced deep learning algorithms, Dahua WizSense 4 Series cameras are ahead of their time advancing functions such as perimeter protection, smart motion detection and face detection. With its Starlight sensors and large aperture lenses, cameras in this series deliver excellent image quality even in environments with low illuminance. This series is IP67-rated and IK10-rated (depending on the model) giving you the confidence and precision you are looking for in a camera.

Functions

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.

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.

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.

- 1/2.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 8MP (3840 × 2160) @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.
- Supports the AFSA (Anti-flicker Self-adaption) function, which automatically eliminates flicker.
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human); face detection.
- 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.
- · max. 256 G Micro SD card, built-in Mic.
- 12 VDC/PoE power supply facilitates installation.
- IP67 protection.
- SMD 4.0















Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

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.

Technical Specification						Smart Codec	Smart H.265+ Smart H.264+	
Camera						Al Cadina	AI H.265	
Image Sensor		1/2.8" CMOS				Al Coding	AI H.264	
Max. Resolution		3840 (H) × 2160 (V)					Main stream: 3840 × 2160 @ (1–25/30) fps 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) Sub stream 3: 1280 × 720 @ (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	
Scanning Sys	stem	Progressive					to the total encoding capacity	
Electronic Sh	nutter Speed	Auto/Manual 1/3 s-1/100,000 s				Stream Capability	4 streams 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×	
Min. Illumina	Min. Illumination		0.007 lux@F1.4 (Color, 30 IRE) 0.0007 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)			Resolution	1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1	
S/N Ratio		> 56 dB					(704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)	
Illumination	Distance	30 m (98.43 f	ft)			Bit Rate Control	CBR/VBR	
Illuminator (On/Off Control	Auto/Manual				Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps	
Illuminator N	Number	2 (IR LED)				Day/Night	Auto (ICR)/Color/B/W	
Pan/Tilt/Rota	ation Range	Pan: 0°-360°	; Tilt: 0°–78°; R	otation: 0°–36	0°	BLC	Yes	
Lens						HLC	Yes	
Lens Type		Fixed-focal				WDR	120 dB	
Lens Mount		M12				Scene Self-adaptation (SSA)	Yes	
Focal Length		2.8 mm; 3.6 mm				White Balance	Auto; natural; street lamp; outdoor; manual; regional	
Max. Apertu	ire	F1.4					custom	
Field of View	V	2.8 mm: Horizontal:107°; vertical: 56°; diagonal: 127° 3.6 mm: Horizontal:84°; vertical: 47°; diagonal: 97°			-	Gain Control	Auto	
Iris Control		Fixed				Noise Reduction	3D NR	
Close Focus	Distance	2.8 mm: 1.5 m (4.9 ft) 3.6 mm: 2 m (6.6 ft)				Motion Detection	OFF/ON (4 areas, rectangular)	
	Lens	Detect	Observe	Recognize	Identify	Region of Interest (RoI)	Yes (4 areas)	
DORI	2.8 mm	87.7 m	35.1 m	17.5 m	8.8 m	Smart Illumination	Yes	
Distance		(287.73 ft) 102.1 m	(115.16 ft) 40.8 m	(57.41 ft) 20.4 m	(28.87 ft) 10.2 m	Defog	Yes 0°/90°/180°/270° (support 90°/270° with 2688×1520	
	3.6 mm	(334.97 ft)	(133.86 ft)	(66.93 ft)	(33.46 ft)	Image Rotation	resolution and lower)	
Intelligen	ce					Mirror	Yes	
IVS (Perimet	er Protection)	Tripwire, intrusion (support the classification and accurate detection of vehicle and human)			on and	Privacy Masking	4 areas	
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions			he parameters	Audio		
		With Al NVR, quickly pick up the human/vehicle targets			ehicle targets	Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
Quick Pick		that users are interested in from SMD events				Alarm		
Face Detection		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face snapshot set as face or one-inch photo; 3 snapshot strategies (real-time snapshot, optimization snapshot, and quality priority); face angle filter; optimization time setting			cement; face -inch photo; optimization	Alarm Event	No SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, motion detection, video tampering, tripwire, intrusion, scene changing, audio detection, voltage detection, face detection, SMD and security exception	
Smart Sparch		Work together with Smart NVR to perform refine				Network		
Smart Search		intelligent search, event extraction and merging to event videos			Tenig to event	Network Port	RJ-45 (10/100 Base-T)	
Video						SDK and API	Yes	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)			lly supported			



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		Ordering I	Information		
			Туре	Model	Description	
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 ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec		8MP Camera	DH-IPC-HDW4866EMP-S-AUS	8MP IR Fixed-focal Eyeball WizSense Network Camera	
				PFA139	Junction Box	
Interoperability				PFB204W	Wall Mount	
User/Host	20 (Total bandwidth: 64 M)			PFA106	Ceiling Mount	
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS			PFB220C	Ceiling Mount	
	IE:IE11		Accessories	PFA152-E	Pole Mount	
Browser	Chrome Firefox		(Optional)	PFM321D	12 VDC 1 A Power Adapter	
Management Software	Smart PSS; DSS; DMSS			LR1002-1ET/1EC	Single-port Long Reach Ethernet	
Mobile Client	IOS; Android			,	Over Coax Extender	
Certification				PFM900-E	Integrated Mount Tester	
cer uneation	CE-LVD:EN62368-1;			TF-P100	TLC SD Card	

CCI	CII	ICU	CIO	

	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;

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 4.3 W (12 VDC); 4.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 7.6 W (12 VDC); 8.9 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	93.6 mm × Φ106.0 mm (3.69" × Φ4.17")
Net Weight	500 g (1.10 lb)
Gross Weight	770 g (1.70 lb)

Accessories

Optional:



PFA139 Junction Box



PFB220C





LR1002-1ET/1EC Single-port Long Reach Ethernet Over Coax Extender



PFB204W Wall Mount



PFA152-E Mount



PFM900-E Integrated Mount Tester



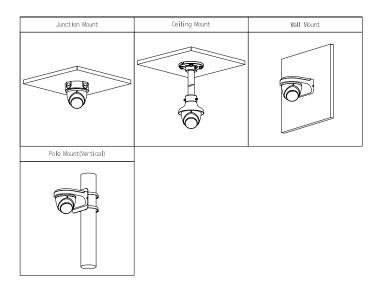
PFA106 Ceiling Mount



PFM321D 12 VDC 1 A Power Adapter



TF-P100 TLC SD Card



Dimensions (mm[inch])

