



DH-IPC-HDBW4241R-ZAS (Only for project)

2MP IR Vari-focal Dome WizMind Network Camera





Launched by Dahua Technology, Dahua WizMind 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, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

Powered by its advanced deep learning algorithms, Dahua WizMind 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 3.0

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

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.

- 2-MP 1/2.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 2 MP (1920 × 1080) @50/60 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- · Built-in IR LED, max. IR distance: 40 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.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; max. 512 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply facilitates installation.
- IP67, IK10 protection.
- SMD 3.0













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, 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 work normally 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification							Video	
Camera							Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Image Sensor		1/2.8" CMOS					Smart Codec	Smart H.265+
Max. Resolution		1920 (H) × 1080 (V)					Smart codec	Smart H.264+ AI H.265
ROM		128 MB					Al Coding	AI H.265 AI H.264
RAM		512 MB					Video Frame Rate	Main stream: 1920 × 1080 @ (1–50/60) fps Sub stream 1: 704 × 576 @ (1–50 fps)/704 × 480 @ (1–60 fps) Sub stream 2: 1920 × 1080 @ (1–50/60 fps) Sub stream 3: 1280 × 720 @ (1–50/60 fps) *The values above are the max. frame rates of each
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)				Change Constilling	stream; for multiple streams, the values will be subjected to the total encoding capacity	
S/N Ratio		>56 dB					Stream Capability	4 streams 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×
Illumination Distance		Up to 40 m (131.23 ft)					Resolution	720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)
Illuminator On/Off Control		Auto/Manual					Bit Rate Control	CBR/VBR
Illuminator Number		3 (IR LED)					Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps
Pan/Tilt/Rotation Range		Pan: 0°-355°; Tilt: 0°-80°; Rotation: 0°-355°					Day/Night	Auto (ICR)/Color/B/W
Lens							BLC	Yes
Lens Type		Motorized vari-focal					HLC	Yes
Lens Mount		ф14					WDR	120 dB
Focal Length		2.7 mm-13.5 mm F1.5					Scene Self-adaptation (SSA)	Yes
Max. Aperture Field of View		Horizontal: 109°–30° Vertical: 56°–17°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
luis Cantural		Diagonal: 137° –35°					Gain Control	Auto
Iris Control Close Focus Distance		Fixed					Noise Reduction	3D NR
Close Focus		0.8 m (2.62 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
	Lens	Detect 44.1 m	Observe 17.6 m	Recognize 8.8 m	Identify 4.4 m		Image Stabilization	Electronic Image Stabilization (EIS)
	W	(144.69 ft)	(57.74 ft)	(28.87 ft)	(14.45 ft)		Region of Interest (RoI)	Yes (4 areas)
DORI	Т	144.8 m (475.07 ft)	57.9 m (189.96 ft)	28.9 m (94.82 ft)	14.8 m (48.56 ft)		Smart Illumination	Yes
Distance		Detect, Observe, Recognize, Identify) is a standard system					Defog	Yes
	(EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent						Image Rotation	0°/90°/180°/270° (support 90°/270° with 1920 × 1080 resolution and lower)
function d project de		tances, refer to installation and commissioning manual/ gn tool.					Mirror	Yes
Intelligence						Privacy Masking	4 areas	
IVS (Perimete	er Protection)		ripwire, intrusion (support the classification and ccurate detection of vehicle and human)				Audio	
SMD 3.0		Less false alarm, longer detection distance					Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
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					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; abandoned object; missing object; audio detection; voltage detection; defocus detection; external alarm; face detection; SMD; security exception
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos						

Network					
Network Port	RJ-45 (10/100 Base-T)				
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				
Security	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. 512 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: 2.3 W (12 VDC); 2.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 6.6 W (12 VDC); 7.7 W (PoE)				
Environment					
Operating Temperature	−30 °C to +60 °C (−22 °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	94 mm × Φ122 mm (3.7" × Φ4.8")				
Net Weight	713 g (1.57 lb)				

986 g (2.02 lb)

Gross Weight

Ordering Information						
Туре	Model	Description				
2MP Camera	DH-IPC-HDBW4241RP- ZAS-27135	2MP IR Vari-focal Dome WizMind Network Camera				
	PFA137	Junction Box Bracket				
	PFA109	Mount Adapter				
	PFB220C	Ceiling Mount Bracket				
	PFB206W	Wall Mount				
Accessories (Optional)	PFA156	Pole Mount				
(Optional)	PFM321D	12 VDC 1 A Power Adapter				
	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender				
	PFM900-E	Integrated Mount Tester				
	TF-P100	TLC SD Card				

Accessories

Optional:



PFA137 Junction Box Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



PFM321D 12 VDC 1 A Power Adapter



PFB206W Wall Mount



PFA156 Pole Mount



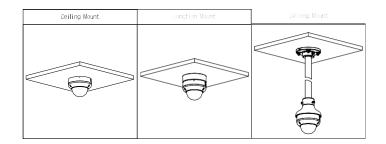
LR1002-1ET/1EC Single-port Long Reach Ethernet Over Coax Extender



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card



Dimensions (mm[inch])

