



DH-IPC-HDBW5441F-AS-E2

2 × 4 MP Dual-Directional WizMind Network Camera



Wiz Mind

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

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

Functions

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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs reports to meet your requirements.

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.

- 4 MP 1/2.7" CMOS image sensor, low luminance, and high definition
- Outputs max. 4 MP (2560 × 1440)@25/30 fps.
- Built-in IR LED, and the max. illumination distance is 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 monitoring: Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); abandoned object, missing object, loitering detection, people gathering, and parking detection.
- Face detection: Track, snapshot, snapshot optimization, optimal face snapshot upload, face enhancement, and face exposure.
- · People counting: Queue management, people counting in area, entered/exited people counting, and generating and exporting report (day/month/year).
- Dual-channel intelligence can be enabled at the same time and independent of each other.
- · Supports dual-channel images previewed in the first channel, saving license costs.
- · Alarm: 2 in, 2 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built-in MIC.
- · 12 VDC/PoE power supply.
- IP67 and IK10.
- SMD 3.0.













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 compromising the device.

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

Technical Specification							People Counting	Tripwire people counting and people counting in area; generating and exporting report (day/month/year); queue management; 4 rules can be set for tripwire, people counting in area and queue management
Camera								
Image Sensor		1/2.7" CMOS						
Max. Resolution		2560 (H) × 1440 (V)					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
ROM		128 MB					Video	Nacos
RAM		1 GB						H.265; H.264; H.264H; H.264B; MJPEG (Only supported
Scanning System		Progressive					Video Compression	by the sub stream)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Smart Codec	Smart H.265+; Smart H.264+
Min. Illumination		0.005 Lux@F1.6 (Color,30 IRE) 0.0005 Lux@F1.6 (B/W,30 IRE) 0 lux (Illuminator on)					Al Coding	Al H.265; Al H.264 Main stream: 2560 × 1440 @(1–25/30 fps)
S/N Ratio		> 56 dB					Video Frame Rate	sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps) third stream: 1920 × 1080 @ (1–25/30 fps)
Illumination Distance		30 m (98.43 ft) (IR)						
Illuminator On/Off Control		Auto					Stream Capability	3 streams
Illuminator Number		16 (IR LED)					Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M(1280×960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Pan/Tilt/Rotation Range		Pan: 0°–175° Tilt: 0°–65° Rotation: 0°–360°					Bit Rate Control	CBR/VBR
Lens		10000011.0					Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 32 kbps–8192 kbps
Lens Type		Fixed-focal					Day/Night	Auto(ICR)/Color/B/W
Lens Mount		M12					BLC	Yes
Focal Length		2.8 mm; 3.6 mm					HLC	Yes
Max. Aperture		F1.6					WDR	120 dB
Field of View		2.8 mm: Horizontal: 95°; Vertical: 52°; Diagonal: 114° 3.6 mm: Horizontal: 78°; Vertical: 41°; Diagonal: 94°					Scene Self-adaptation (SSA)	Yes
Iris Control		Fixed					White Balance	Auto; natural; street lamp; outdoor; manual; regional
Close Focus Distance		2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (5.58 ft)					Gain Control	custom
	Lens	Detect	Observe	Recognize	Identify		Noise Reduction	3D NR
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)		Motion Detection	OFF/ON (4 areas, rectangular)
	3.6 mm	85.4 m	34.2 m	17.1 m	8.5 m		Region of Interest (RoI)	Yes (4 areas)
Smart Event		(280.18 ft)	(112.20 ft)	(56.10 ft)	(27.89 ft)		Image Stabilization	NA
IVS	•	Abandoned object; missing object					Smart Illumination	Yes
Professional, intellige							Defog	Yes
1101033101141	, intellige	Intrusion, tripwire, fast moving (the three functions					Image Rotation	0°/90°/180°/270°
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection; people					Mirror	Yes
		gathering; parking detection With intelligent algorithm, Dahua Smart Motion Detection					Privacy Masking	8 areas
SMD 3.0		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					Audio	
		alarm. Face detection; track; snapshot; snapshot optimization;					Built-in MIC	Yes
Face Detection		optimal face snapshot upload; face enhancement; face exposure; face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723

Alarm						
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; SMD; people counting in area; stay detection; people counting; security exception					
Network						
Network Port	RJ-45 (10/100 Base-T)					
SDK and API	Yes					
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					
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					
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone					
User/Host	20 (Total bandwidth: 64 M)					
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS					
Browser	IE: IE8 and later Chrome Firefox Safari: 12 and later					
Management Software	Smart PSS; DSS; DMSS					
Mobile Client	iOS; Android					
Certification						
Certifications	CE-LVD: EN 62368-1; 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	2 channels in: 5mA 3V–5 VDC					
Alarm Output	2 channels out: 300mA 12 VDC					
Power						
Power Supply	12 VDC/PoE					
Power Consumption	Basic: 3.1 W (12 VDC); 4 W (PoE) Max. (H.265 + IR on + intelligence+ WDR): 6.6 W (12 VDC); 8 W (PoE)					
Environment						
Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F)					
Operating Humidity	≤ 95%					
Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)					
Protection	IP67; IK10					

Structure

Casing	Metal		
Product Dimensions	66.2 mm × Φ122.0 mm (2.61" × Φ4.80")		
Net Weight	0.52 kg (1.15 lb)		
Gross Weight	0.67 kg (1.48 lb)		

Ordering Information						
Туре	Model	Description				
2 × 4 MP Camera	DH-IPC- HDBW5441F- AS-E2	2 × 4 MP Dual-Directional WizMind Network Camera				
	PFA106	Mount Adapter				
	PFB220C	Celling Mount Bracket				
	PFB203W	Wall Mount Bracket				
Accessories	PFA152-E	Pole Mount Bracket				
(optional)	PFA137	Junction Box				
	PFM321D	12 VDC 1A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100	MicroSD Memory Card				

Accessories

Optional:



Mount Adapter





PFB220C Celling Mount Bracket



PFB203W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA137 Junction Box



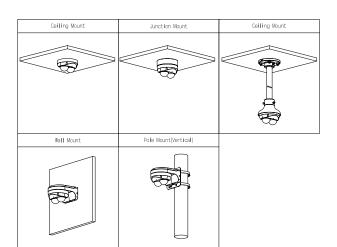
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

