



DH-IPC-HDBW5541E-ZE

5MP 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

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.

Functions

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.

Face Attributes

With deep learning algorithm, the network camera can recognize face attributes, such as gender, age, expression, glasses, mouth mask, and beard.

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 yearly/monthly/daily reports to meet your requirements.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition
- \cdot Outputs max. 5MP (2592 × 1944)@20 fps , and supports 4MP (2688 × 1520)@25/30 fps
- Built-in IR LED, and the max. illumination distance is 40 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- · Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Three switchable intelligent resources: IVS, face detection, and people
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD
- 24 VAC/12 VDC/PoE power supply, easy for installation.
- ePoE; IP67 and IK10 protection.
- SMD 3.0.













ePoE

Dahua's innovative ePoE technology offers a new solution to transmit power and data over long distances between cameras and network switch, allowing more flexible design of surveillance system, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

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								Support the counting of enter number, leave number
Camera								and pass number, and displaying and outputting yearly/ monthly/daily reports. Support the counting of number in
Image Sensor		1/2.7" CMOS					People Counting	area, and 4 rules configuration. Count number of people or stay time and link alarm. Support queue management,
Max. Resolution		2592 (H) × 1944 (V)						and 4 rules configuration. Count number of people or stay time and link alarm.
ROM		128 MB					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event
RAM		1 GB						videos
Scanning System		Progressive					Video	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Min. Illumination		0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE)					Smart Codec	Smart H.265+; Smart H.264+
Will. Mariniation		0 lux (Illuminator on)					Al Coding	AI H.265; AI H.264
S/N Ratio		>56 dB						Main stream: 2592 × 1944@(1-20 fps)/2688 × 1520@(1-
Illumination Distance		40 m (131.23 ft) (IR)					Video Frame Rate	25/30 fps) /1920 × 1080@(1-50/60 fps) Sub stream: D1@(1 fps-50/60 fps) Third stream: 1080p@(1 fps-50/60 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.
Illuminator On/Off Control		Auto					Video Frame Rate	
Illuminator Number		3 (IR LED) Pan: 0°-355°						
Pan/Tilt/Rotation Range		Tilt: 0°–65° Rotation: 0°–355°					Stream Capability	3 streams
Lens							Resolution	2592 × 1944; 2688 × 1520; 2304 × 1296; 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Lens Type		Motorized vari-focal						
Lens Mount		ф14					Bit Rate Control	CBR/VBR
Focal Length		2.7 mm-13.5 mm					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 32 kbps-8192 kbps
Max. Aperture		F1.5					Day/Night	Auto(ICR)/Color/B/W
Field of View	Field of View		Horizontal: 100°–28° Vertical: 72°–21°				BLC	Yes
		Diagonal: 133°–35° Auto					HLC	Yes
Iris Control Close Focus Distance		0.8 m (2.62 ft)					WDR	120 dB
Close i ocus	Lens	Detect	Observe	Recognize	Identify		Scene Self-adaptation (SSA)	Yes
DORI Distance	W	64 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (21.00 ft)		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Distance	Т	212 m	84.8 m	42.4 m	21.2 m		Gain Control	Auto; manual
Smart Eve	ent	(695.54 ft)	(278.22 ft)	(139.11 ft)	(69.55 ft)		Noise Reduction	3D NR
IVS	CITC	Abandoned object; missing object					Motion Detection	OFF/ON (4 areas, rectangular)
Heat Map		Yes					Region of Interest (RoI)	Yes (4 areas)
	nal, intellige						Image Stabilization	Electronic Image Stabilization (EIS)
110103310	man, micembe	Intrusion, tripwire, fast moving (the three functions					Smart Illumination	Yes
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people					Defog	Yes
SMD 3.0		gathering, and parking detection Less false alarm, longer detection distance					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M resolution and lower)
		Face detection; track; snapshot; snapshot optimization;					Mirror	Yes
Face Detection		optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); 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					Privacy Masking	8 areas
		meer, optimization time setting						

Audio							
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; defocus detection; scene changing; tripwire; intrusion; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; input error; intensity change; people counting; face detection; voltage detection; people counting in area; stay detection; people number error detection; queue management						
Network							
Network Port	RJ-45 (10/100 Enhancement 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; Bonjour						
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone						
User/Host	20 (Total bandwidth: 80 M)						
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS						
Browser	IE: IE8 and later Chrome Firefox						
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: UL60950-1 CAN/CSA C22.2 No.60950-1-07						
Port							
Audio Input	1 channel (terminal)						
Audio Output	1 channel (terminal)						
Alarm Input	1 channels in: 5 mA 3 V–5 VDC						
Alarm Output	1 channel out: 300 mA 12 VDC						
Power							
Power Supply	12 VDC (±25%)&24 VAC (±30%); PoE (802.3af); ePoE						
Power Consumption	Basic: 4.9 W (12 VDC); 5.1 W (24 VAC); 5.2 W (PoE) Max. (max. stream + intelligence + IR on + focus): 12.4 W (12 VDC); 11.9 W (24 VAC); 11.6 W (PoE)						
Environment							
Operating Temperature	-30 °C to +60 °C (-22 °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 + plastic		
Product Dimensions	Ф159 mm × 117.9 mm (6.26" × 4.64")		
Net Weight	950 g (2.09 lb)		
Gross Weight	1200 g (2.65 lb)		

Ordering Information						
Туре	Model	Description				
5MP Camera	DH-IPC-HDBW5541EP-ZE	5MP IR Vari-focal Dome WizMind Network Camera, PAL				
Sivir Camera	DH-IPC-HDBW5541EN-ZE	5MP IR Vari-focal Dome WizMind Network Camera, NTSC				
	PFA138	Junction Box Bracket				
	PFB211W	Wall Mount Bracket				
	PFB300C	Ceiling Mount Bracket				
	PFA152-E	Pole Mount Bracket				
Accessories (Optional)	PFB201C	In-ceiling Mount Bracket				
	PFA101	Mount Adapter				
	PFM321D	12 VDC 1A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100/256G	MicroSD Memory Card				

Accessories

Optional:



PFA138 Junction Box Bracket



PFB211W Wall Mount Bracket



PFB300C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



PFB201C In-ceiling Mount Bracket



Adapter

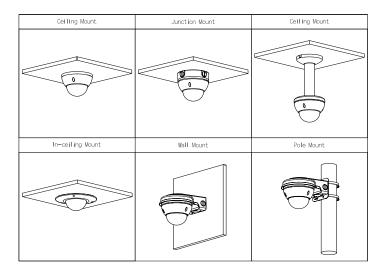
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PFM900-E Integrated Mount Tester



TF-P100/256G MicroSD Memory Card





Dimensions (mm[inch])

