



DH-IPC-HDBW5241E-Z5E

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

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 dustproof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

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.

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 25/30 fps@1080P (1920 × 1080)
- · WDR (120 dB), Day/Night (ICR), 3D NR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 7 mm-35 mm motorized lens
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 80 m
- · Micro SD memory, IP67, IK10
- · SMD Plus













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.

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 camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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							Smart Event	
Camera							IVS	Object Abandoned/Missing
Image Sensor		1/2.8" CMOS					Heat Map	Yes
Max. Resolution		1920 (H) × 1080 (V)					Video	
RAM/ROM		512 MB/128 MB					Compression	H.265,H.264,H.264B,H.264H, MJPEG (only supported by sub stream)
Scanning System		Progressive					Smart Codec	Smart H.265+/ Smart H.264+
Electronic Shutter Speed		Auto/Manual, 1/3 s–1/100000 s					Streaming Capability	3 Streams
S/N Ratio		> 56 dB						1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280
Minimum Illumination		0.0015 lux@F1.3 (Color, 30 IRE) 0.0002 lux@F1.3 (B/W, 30 IRE) 0 lux (Illuminator on)					Resolution	× 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240) Main Stream:1920 × 1080 (1 fps–25/30 fps)
Illumination Distance		Distance up to 80 m (262 ft)					Sub Stream: D1 (1 fps–25/30 fps) D1 (1 fps–50/60 fps)	
Illuminator On/Off Control		Auto/Manual					Frame Rate	Third Stream: 1080P (1 fps-25/30 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 Num	Illuminator Number		3(IR LED)					
Lens	Lens						Bit Rate Control	CBR/VBR H.264: 32 Kbps-8192 Kbps
Lens Type	Lens Type		Motorized vari-focal				Bit Rate	H. 265: 19 Kbps-7424 Kbps
Mount Type		Board-in					Day/Night	Auto (ICR)/Color/B/W
Focal Length		7 mm-35 mm					BLC Mode	BLC/HLC/WDR (120 dB)
Max. Aperture		F1.3 (Constant)					Scene Self-adaptation (SSA)	Yes
Angle of View		H: 33°–10°, V: 19°–5°					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Aperture Type		Auto					Gain Control	Auto/Manual
Close Focus Dist	Close Focus Distance		0.3 m-2.0 m (0.98 ft-6.56 ft)				Noise Reduction	3D NR
	Lens	Detect	Observe	Recognize	Identify		Motion Detection	OFF/ON (4 areas, rectangular)
DORI Distance	W	131 m (430ft)	52 m (171 ft)	26 m (85 ft)	13 m (43 ft)		Region of Interest	Yes (4 areas)
	Т	428 m (1404 ft)	171 m (561 ft)	86 m (282ft)	43 m (141 ft)		Electronic Image Stabilization (EIS)	Yes
Pan/Tilt/Rota	tion	(140411)	(30111)	(2021)	(14110)		Smart Illumination	Yes
Pan/Tilt/Rotation Range		Pan: 0°-355°; Tilt: 0°-65°; Rotation: 0°-355°					Defog	Yes
Professional,	J	1 an. 0 -333 , 1111. 0 -03 , NOLATION. 0 -333					Flip	0°/90°/180°/270°
i roressionar,	membern	Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face exposure; face attribute extract, 6 attributes and					Mirror	Yes
							Privacy Masking	Off/On (8 areas, Rectangle)
Face Detection			8 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear), mask, beard; face matting setting: face, single inch photo; three snapshot				Audio	
race Detection		setting: face, s					Audio Compression	G.711a, G.711Mu, G.726, G.723
		methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time					Alarm	
Perimeter Protection		setting Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection					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;intrusion;tripwire;aban doned object;missing object;fast moving;parking detection;loitering detection;people gathering;audio detection;people counting,face detection;People counting in area;Stay alarm;People No. exception detection;Queue Management
People Counting		Support the counting of enter number, leave number, and pass number, and displaying and outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm						
							Network	
							Network	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	
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	CGI, Milstone, Genetec, P2P	
User/Host	20 Users	
Storage	NAS; FTP; SFTP; Micro SD card 256 GB	
Browser	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)	
Management Software	Smart PSS, DSS, DMSS	
Mobile Phone	iOS, Android	
Certifications		
Certifications	CE-LVD: EN62368-1 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	
Interface		
Audio Interface	1/1 channel In/Out	
Alarm	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC	
Electrical		
Power Supply	DC 12V (±30%)/AC 24V (±30%)/PoE (802.3af)/ePoE	
Power Consumption	Basic power consumption: 4.6W (12V DC); 4.9W (24V AC); 4.9W (POE) Max. power consumption (max. stream + intelligent function + IR LED + focus): 11.8W (12V DC); 11.5W (24V AC); 11.3W (POE)	
Environmental		
Operating Conditions	-30° C to +60° C (–22° F to +140° F)/1Less than 95% RH	
Storage Conditions	-40° C to +60° C (-40° F to +140° F)	
Protection Grade	IP67,IK10	
Construction		
Casing	Metal	
Dimensions	Φ159.0 mm × 117.9 mm (6.26" × 4.64")	
Net Weight	0.95 kg (2.09 lb)	

Ordering Information							
Туре	Part Number	Description					
	DH-IPC- HDBW5241EP-Z5E	2MP IR Vari-focal Dome WizMind Network Camera, PAL					
2MP camera	DH-IPC- HDBW5241EN-Z5E	2MP IR Vari-focal Dome WizMind Network Camera, NTSC					
	IPC-HDBW5241EP- Z5E	2MP IR Vari-focal Dome WizMind Network Camera, PAL					
	IPC-HDBW5241EN- Z5E	2MP IR Vari-focal Dome WizMind Network Camera, NTSC					
	PFA138	Junction Box					
	PFB211W	Wall mount					
Accessories	PFB300C	Ceiling mount					
(optional)	PFA152-E	Pole mount					
	PFA101	Mount adapter					
	PFB201C	In-ceiling mount					

Accessories

Optional:



Ceiling Mount	Junction Mount	Ceiling Mount
0		
In-ceiling Mount	Wall Mount	Pole Mount

Dimensions (mm[inch])

