

DH-IPC-HDBW5442E-ZE

4MP 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 dust-proof 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.

- · 1/1.8" 4Megapixel progressive scan CMOS
- · ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 25/30 fps@2688 × 1520, 50/60 fps@1080P (1920 × 1080)
- · WDR (140 dB), Day/Night (ICR), 3D NR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.7 mm-12.0 mm motorized lens
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 40 m
- · Micro SD memory, IP67, IK10
- · SMD Plus













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.

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 $\pm 30\%$ (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		1/1.8" CMOS					Heat Map	Yes
Effective Pixels		2688 (H) × 1520 (V)					Video	
RAM/ROM		1 GB/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					0 1 ,	2688 × 1520/2560 × 1440/2304 × 1296/1080P
Minimum Illumination		0.003 lux@F1.8 (Color, 30 IRE) 0.0003 lux@F1.8 (B/W, 30 IRE) 0 lux (Illuminator on)					Resolution	(1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)
Illumination Dista	Distance up to 40 m (131 ft)					Frame Rate	Main Stream: 2688 × 1520 (1 fps-25/30 fps) 2560 × 1440 (1 fps-25/30 fps) 1920 × 1080 (1 fps-50/60 fps) Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps)	
Illuminator On/Off Control		Auto/Manual						
Illuminator Numb	er	3 (IR LED)	3 (IR LED)					Third Stream: 1080P (1 fps–16 fps)
Lens							Bit Rate Control	CBR/VBR
Lens Type		Motorized vari-focal					Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
Mount Type		Board-in					Day/Night	Auto (ICR)/Color/B/W
Focal Length		2.7 mm-12.0 mm					BLC Mode	BLC/HLC/WDR (140 dB)
Max. Aperture		F1.8					Scene Self-adaptation (SSA)	Yes
Angle of View		H: 114°–47°, V: 62°–26°					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Aperture Type Close Focus Distance			Auto				Gain Control	Auto/Manual
Close Focus Dista		Detect	1.2 m (3.94 ft)				Noise Reduction	3D NR
	Lens	58 m	Observe 23 m	Recognize 12 m	Identify 6 m		Motion Detection	OFF/ON (4 areas, rectangular)
DORI Distance	W	(190 ft)	(75 ft)	(39 ft)	(20 ft)		Region of Interest	Yes (4 areas)
	Т	131 m (430 ft)	52 m (171 ft)	26 m (85 ft)	13 m (43 ft)		Electronic Image Stabilization (EIS)	Yes
Pan/Tilt/Rotation						Smart Illumination	Yes	
Pan/Tilt/Rotation	Pan: 0°-355°; Tilt: 0°-65°; Rotation: 0°-355°					Defog	Yes	
Professional, ir	ntelligent						Flip	0°/90°/180°/270°
		Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face exposure; face attribute extract, 6 attributes and 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					Mirror	Yes
							Privacy Masking	8 areas
Face Detection							Audio	
		methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting					Audio Compression	G.711a, G.711Mu, G.726, G.723
							Alarm	
Perimeter Protection		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
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						detection;loitering detection;people gathering;audio detection;people counting;face detection;People counting in area;Stay alarm;People No. exception detection;Queue Management
							Network	
		configuration. Count number of people or stay time and link alarm					Network	RJ-45 (10/100 Base-T)

SDK and API Yes Video encryption; firmware enconfiguration encryption; Digelockout; security logs; IP/MAC and importing of X.509 certific 802.1x; trusted boot; trusted eupgrade IPv4; IPv6; HTTP;TCP; UDP; ARI RTMP; SMTP; FTP; SFTP; DHCP UPnP; NTP; Multicast; ICMP; IC PPDE; SNMP; Bonjour Interoperability ONVIF (Profile S/Profile G/Proficentec, P2P) User/Host 20 Users	est; WSSE; account filtering; generation cation; syslog; HTTPS; execution; trusted P; RTP; RTSP; RTCP; P; DNS; DDNS; QoS;	
configuration encryption; Dige lockout; security logs; IP/MAC and importing of X.509 certific 802.1x; trusted boot; trusted e upgrade IPv4; IPv6; HTTP;TCP; UDP; ARI RTMP; SMTP; FTP; SFTP; DHCP UPnP; NTP; Multicast; ICMP; IC PPPoE; SNMP; Bonjour Interoperability ONVIF (Profile S/Profile G/Profile Genetec, P2P) User/Host 20 Users	est; WSSE; account filtering; generation cation; syslog; HTTPS; execution; trusted P; RTP; RTSP; RTCP; P; DNS; DDNS; QoS;	
Protocol RTMP; SMTP; FTP; SFTP; DHCP UPnP; NTP; Multicast; ICMP; IC PPPoE; SNMP; Bonjour ONVIF (Profile S/Profile G/Prof Genetec, P2P User/Host 20 Users	P; DNS; DDNS; QoS;	
User/Host 20 Users		
	file T), CGI, Milstone,	
Character All CETT AND CETT AN		
Storage NAS; FTP; SFTP; Micro SD card	1 256 GB	
Browser IE (versions newer than IE8), Cl Firefox, Safari (versions newer		
Management Software Smart PSS, DSS, DMSS		
Mobile Phone iOS, Android		
Certifications		
CE-LVD: EN62368-1 CE-EMC: Electromagnetic Com Certifications 2014/30/EU FCC: 47 CFR FCC Part 15, Subpi UL/CUL: UL60950-1 CAN/CSA	art B	
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	
(24V AC); 5.2W (PoE) Power Consumption Max. power consumption (max	Max. power consumption (max. stream + intelligent function + IR LED + focus): 12.4W (12V DC); 11.9W	
Environmental		
Operating Conditions -30° C to +60° C (-22° F to +140)° F)/Less than 95% RH	
Storage Conditions -40° C to +60° C (-40° F to +140°	o° 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						
Type	Part Number	Description				
	DH-IPC- HDBW5442EP-ZE	4MP IR Vari-focal Dome WizMind Network Camera, PAL				
4MP camera	DH-IPC- HDBW5442EN-ZE	4MP IR Vari-focal Dome WizMind Network Camera, NTSC				
	IPC-HDBW5442EP- ZE	4MP IR Vari-focal Dome WizMind Network Camera, PAL				
	IPC-HDBW5442EN- ZE	4MP 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:









PFB300C Ceiling mount

PFA152-E Pole mount

PFA101 Mount adapter

Ceiling Mount	Junction Mount	Ceiling Mount
9		
In-ceiling Mount	Wall Mount	Pole Mount

Dimensions (mm[inch])

