

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. 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.

- · 1/2.7" 5Megapixel progressive scan CMOS
- · ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 20 fps@2592 × 1944, 50/60 fps@1080P (1920 × 1080)
- · WDR (120 dB), Day/Night (ICR), 3D NR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.7 mm-13.5 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.

Manual	Technical Specification							Smart Event	
	Camera					IVS	Object Abandoned/Missing		
MAX. MONITOR 100 / 10	Image Sensor		1/2.7" CMOS					Heat Map	Yes
Searning System	Max. Resolution		2592 (H) × 1944 (V)					Video	
Searning System Rogestake	RAM/ROM		1 GB/128 MB					Compression	
File			Progressive					Smart Codec	Smart H.265+/ Smart H.264+
	7 /		Auto/Manual, 1/3 s–1/100000 s					Streaming Capability	3 Streams
Minimum Mini	·		> 56 dB					Resolution	
Blumination Distance Distance up to 40 m (13 f 1)			0.0005 lux@F1.5 (B/W, 30 IRE)						480)/CIF (352 × 288/352 × 240)
Illuminator On/Off Control Auto/Manual Substamm. DL (1 ps. 20)30 plog Substamm. DL (1 ps. 2	Illumination Dista	ance							2560 × 1440 (1 fps-25/30 fps)
Bit Rate Control CRR/VBR CRR/								Frame Rate	Sub Stream: D1 (1 fps-20/30 fps) D1 (1 fps-50 fps)
Lens Yes Motorized vari-local Bit Rate H, 264-132 kbps-8132 kbps H, 265-137 kbps-8132 kbps Mount Type Board-in 2.7 mm-13.5 mm BLC Mode BLC/HLC/MDR (120 dB) Max. Aperture F1.5 Secene Self-adaptation (\$5.8) Yes Angle of View ALI 1047-287, V-757-107 (2688 x 1320) Methods (\$6.00 mm) Auto/Antural/Street Lamp/Dutdoor/Manual Aperture Type Auto No Bock (\$6.00 mm) Auto (\$6.00 mm) Auto/Antural/Street Lamp/Dutdoor/Manual Close Feecus Divaries W (\$2.00 mm) \$2.00 mm 1.1 mm 6 mm DORI Distance W (\$2.00 mm) \$2.00 mm 1.3 mm 6 mm POR/TIL/Rotation Range Pax.00-2557; Till: 0"-657; Rotation: 0"-355* F1.00 mm F1.00 mm F1.00 mm Professional, intelligent F5.00 detection mask beard; lace matting, such specific methods read with with time setting or professional mask beard; lace matting, such as professional mask beard; lace matting, such as professional mask beard; lace matting, such as professional mask beard; lace matting, supple, confusion and fear, mask, beard; lace matting, supple, confusion and fear, mask, beard; lace matting, supple, confusion and learn mask, beard; lace matting, subject, and profession and social fear fear fear fear f	Illuminator Numb	per	3 (IR LED)					Bit Rate Control	
Mount Type Board-in Column September Septemb	Lens							Rit Rate	H.264: 32 Kbps-8192 Kbps
Mount Type Board in	Lens Type		Motorized vari-focal						
Max. Aperture FLS	Mount Type		Board-in						
Max. Aperture F1.5	Focal Length		2.7 mm-13.5 mm						, , ,
Angle of View H: 100-28', V: 57'-10' (2688 x 1520) Auto Auto Auto O. 8 m (2.62 ft) Defect Observe Recognize Identify Region of Interest Yes (20 ft) DORI Distance W (210 ft) (85 ft) (33 ft) (20 ft) T 212 m 85 m 42 m 21 m Smart Illumination Yes Pan/Tilt/Rotation Pan/Tilt/Rotation Range Pan: 0"-355'; Tilt: 0"-65'; Rotation: 0"-355' Professional, intelligent Face Detection Face Detection Face Detection Perimeter Protection Perimeter Protection Perimeter Protection People Counting People People Counting People Counting People People People People or stay time People People Counting People People People People or stay time People People People People People or stay time People People People People People or stay time People People Counting People People or stay time People People People People People or stay time People People People People People or stay time People People People People People People People or stay time People	Max. Aperture		F1.5						
Aperture Type Auto	Angle of View								
Close Focus Distance O.8 m (2.62 ft) Motion Detection OFF/ON (4 areas, rectangular)	Aperture Type								
Lens Detect Observe Recognize Identify	Close Focus Dista	ance							
DORI Distance W		Lens	Detect	Observe	Recognize	Identify			
T (211 tr) (83 tr) (211 tr) (83 tr) (211 tr) (211 tr) (211 tr) (211 tr) (212 tr) (212 tr) (213 tr) (21		14/	64 m	26 m	13 m	6 m		G	Yes (4 areas)
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Perimeter Protection Audio Compression Au								Privacy Masking	8 areas
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configuration. Count number of people or stay time SDK and API Yes			and link alarm. Support queue management, and 4 rules					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	ONVIF (Profile S/Profile G/Profile T), 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: 4.9W (12V DC); 5.1W (24V AC); 5.2W (PoE) Max. power consumption (max. stream + intelligent function + IR LED + focus): 12.4W (12V DC); 11.9W (24V AC); 11.6W (PoE)	
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° 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)	
Gross Weight	1.20 kg (2.65 lb)	

Ordering Information					
Type	Part Number	Description			
	DH-IPC- HDBW5541EP-ZE	5MP IR Vari-focal Dome WizMind Network Camera, PAL			
5MP camera	DH-IPC- HDBW5541EN-ZE	SMP IR Vari-focal Dome WizMind Network Camera, NTSC			
	IPC-HDBW5541EP- ZE	5MP IR Vari-focal Dome WizMind Network Camera, PAL			
	IPC-HDBW5541EN- ZE	5MP 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])

