

DH-IPC-HDBW5541E-Z5E

5MP WDR IR Dome Al Network Camera





Dahua AI series products adopt the most advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua AI series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc. The complete lineup of Dahua AI includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

System Overview

Pro AI series contains Face Capture, Perimeter Protection and People Counting functions.Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy. Meanwhile, the series features starlight and smart IR technology. This series fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

Functions

Face Capture

Face capture is a software application that automatically captures faces from within a digital image or a video frame from a video source. Dahua cameras use advanced deep learning algorithms and are trained by a large number of face data sources, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

Face Attributes

Through the use of deep learning algorithms to analyze facial images, Dahua cameras can extract six facial attributes from each frame, including Age, Gender, Expression (Jolly/Surprise/Normal/Rage/Sad/Disgusted/Confused/Frightened), Glasses, Mouth Mask, Moustache & Beard. Customers can acquire data of interest via face attributes statistics.

Perimeter Protection

Dahua's Perimeter Protection functions significantly improved accuracy. Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection. Perimeter Protection features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced AI analytics and real-time alerts to a desktop or to a mobile

- · 1/2.7" 5Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 20fps@2592×1944
- · WDR(120dB), Day/Night(ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 7mm ~35mm motorized lens
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 100m
- · Micro SD memory, IP67, IK10













client reduces system requirements and resources resulting in greater surveillance system efficiency.

People Counting

People Counting function uses advanced image processing technology to capture depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statistics for separate individuals' entrance and exit with up to 95% counting accuracy.

Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. Dahua face detection camera can extract six facial attributes and output the metadata for analysis.

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Protection(IP67, IK10, wide voltage)

The camera allows for $\pm 30\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.



Part								
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			1/2 7" 584	4/6 7/4 5.4				
Cite Control Cite Control Cite C							Frame Rate	
Section System	Effective Pixels		2592(H) x 194	2592(H) x 1944(V)				
Bit fairs	RAM/ROM		1GB/128MB	1GB/128MB			Bit Rate Control	CBR/VBR
Description	Scanning System		Progressive	Progressive			Bit Rate	
Minimum Illumination	Electronic Shutter Speed		Auto/Manual	Auto/Manual, 1/3~1/100000s			Day/Night	· ·
	Minimum Illumina	ation	0.098Lux/F1.	0.098Lux/F1.3 (Color,1/30s,30IRE)				
Notice Reduction 30 N/R	IR Distance		Distance up t				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Lens Type	IR On/Off Control		Auto/ Manua				Gain Control	Auto/Manual
Region of Interest	IR LEDs		3				Noise Reduction	3D DNR
Mount Type Board-in Focal Length 7mm*35mm Max. Aperture Fig. 1.3 Angle of View H: 37"9, V:23"77(2597x1944) H: 37"9, V:18"5(7688r)1570) Pofical Zoom Sx Aperture Type Auto(HAIL) Close Focus Distance O.4m*2m(1.31ft*6.56ft) Defice Close Focus Distance O.4m*2m(1.31ft*6.56ft) Autic Compression O.711a/G.711Mit/ AAC/ G.726/G.723 Network Fibernet Ri-45 (10/1008ase-1) Fibe	Lens						Motion Detetion	Off / On (4 Zone, Rectangle)
Smart IR Support	Lens Type		Motorized				Region of Interest	Off / On (4 Zone)
Max. Aperture F1.3 Angle of View H: 31"-9", V.23"-7"(2592×1944) H: 32"-9", V.18"-5"(2688×1520) Defog Support Defog Defog Support Defog Defog Support Defog D	Mount Type			Board-in			_	Support
H-31"-9", V.23"-7"(2592×1944) H-32"-9", V.18"-5"(2688×1520) Deleg Support	Focal Length		7mm~35mm	7mm~35mm			Smart IR	Support
Optical Zoom Aperture Type Auto(HALL) Close Focus Distance Lens Detect Observe Recognize Lens Defect	Max. Aperture		F1.3	F1.3			Defog	Support
Aperture Type Auto(HALL) Close Focus Distance D.Am-2m(1.31ft~6.56ft) Lens Detect Observe Recognize Identify Audio Compression Off / On (4 Area, Rectangle) Audio DORI Distance W 190m(623ft) 76m(249ft) 38m(125ft) 19m(62ft) T 620m(2034ft) 248m(814ft) 124m(407ft) 62m(203ft) Pan/Tilt/Rotation Pan/Tilt/Rotation Range Pan:0~355°; Tilt:0~65°; Rotation:0~355° Protocol Face Capture Support face image capture Support 6 kinds of face attributes extraction: Age, Gender, Expression(Jully/Surprise/Normal/Rage/Sad/Disgusted/Consude/Frightened), Glasses, Mouth Mask, Moustache & Beard Perimeter Protection Tripwire, Intrusion(Human & Vehicle classification) People Counting Ceneral Intelligence Video Video Compression M.255/H.265/H.264/H.264/H.264/H.264H/ EAB/H.264H/ M.PEG(sub stream) Mirror Off / On (4 Area, Rectangle) Off / On (4 Area, Petalgened) Off / On (4 Area, Petalgened) Off / On (4 Area, Petalgened) Of	Angle of View	Angle of View					Digital Zoom	N/A
Close Focus Distance O.4m*2m(1.31t*-6.56t*) Lens Detect Observe Recognize Identify Audio Ompression Off./On (4 Area, Rectangle) Audio Ompression G.711a/G.711Mu/AAC/G.726/G.723 Network Ethernet R.J-45 (10/1008ase-T) Pan/Tilt/Rotation Pan/Tilt/Rotation Range Pan:0**355*; Tilt:0**65*; Rotation:0**355* Protocol Fire, DHCP; DNS; DDNS; PPDeE; IPV4/V6; SNMP; QoS; UPnP,NTP ONVIF(Profile S/Profile G), CGG,Mistone,Genetec, P2P Support 6 kinds of face attributes extraction: Age, Gender, Expression(Jolly/Surprise/Normal/Rage/Sad/Disgusted/Confused/Frightened), Glasses, Mouth Mask, Moustache & Beard Perimeter Protection Tripwire, Intrusion(Human & Vehicle classification) General Intelligence Veb Viewer Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly Video Video Compression H.265+/H.265/H.264-/H.264/H.264B/H.264B/H.264B/H.264H/ MPEG(sub stream) Privacy Masking Off / On (4 Area, Rectangle) Audio Compression G.711a/G.711Mu/AAC/G.726/G.723 Audio Compression G.711a/G.711Mu/AAC/G.726/G.723 Network Ethernet RJ-45 (10/1008ase-T) Protocol Firenet RJ-45 (10/1008ase-T) Protocol Streaming Method Unicast / Multicast Max. User Access Audio Max. User Access Audio Max. User Access Veb Viewer Edge Storage Firenet NAS Fireney Smart PSS, DSS, P2P Smart Phone OS, Android Certifications Certifications Certifications Certifications Certifications Certifications Certifications Certifications	Optical Zoom		5x				Flip	0°/90°/180°/270°
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DORI Distance W 190m(623ft) 76m(249ft) 38m(125ft) 19m(62ft)	Close Focus Dista	nce	0.4m~2m(1.3	0.4m~2m(1.31ft~6.56ft)			Privacy Masking	Off / On (4 Area, Rectangle)
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Pan/Tilt/Rotation Pan/Tilt/Rotation Range Pan:0~355'; Tilt:0~65'; Rotation:0~355' Artificial Intelligence Face Capture Support face image capture Support 6 kinds of face attributes extraction: Age, Gender, Expression(Jolly/Surprise/Normal/Rage/Sad/Disgusted/Contused/Frightened), Glasses, Mouth Mask, Moustache & Beard Perimeter Protection Tripwire, Intrusion(Human & Vehicle classification) People Counting Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly General Intelligence Video Compression Ethernet RJ-45 (10/100Base-T) HTTP, TCP; ARP, RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP;QoS; UPPP;NTP HTTP, TCP; ARP, RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP;QoS; UPPP;NTP HTTP, TCP; ARP, RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP;QoS; UPPP;NTP HTTP, TCP; ARP, RTSP; RTP; UDP; RTCP; SMTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP;QoS; UPPP;NTP HTTP, TCP; ARP, RTSP; RTSP; DTP; DNS; DPPS; TPP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP;QoS; UPPP;NTP Interoperability CGI,Mistone,Genetc, P2P Streaming Method Unicast / Multicast Max. User Access 20 Users Max. User Access 20 Users Max. User Access Web Viewer Eldge Storage Refersions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12) Web Viewer Smart PSS, DSS, P2P Smart Phone OS, Android Certifications CE-LVD:EN60950-1		Т	620m(2034ft)	248m(814ft)	124m(407ft)	62m(203ft)	Network	
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Face Capture Support face image capture Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly/Surprise/Normal/Rage/Sad/Disgusted/Confused/Frightened), Glasses, Mouth Mask, Moustache & Beard Perimeter Protection Tripwire, Intrusion(Human & Vehicle classification) People Counting Line crossing people counting, Region people counting Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly General Intelligence Video Compression H.265+/H.265+/H.264+/H.264H.264H/MJPEG(sub stream) Support 6 kinds of face attributes extraction: Age, Genderd, Farge Streaming Method Unicast / Multicast Max. User Access 20 Users NAS FTP Mirco SD card 256GB Web Viewer Illeges Storage Management Software Smart PSS, DSS, P2P Smart Phone iOS, Android Certifications Certifications Certifications Certifications Certifications Certifications Certifications	Artificial Intelli	gence						,
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Access,Storage anomaly General Intelligence Object Abandoned/Missing CE-LVD:EN60950-1 CE-EMC:Electromagnetic Compatibility Directive 2014/30/EU Compression H.265+/H.265/H.264+/H.264/H.264B/H.264H/ MJPEG(sub stream) Certifications CE-LVD:EN60950-1 CE-EMC:Electromagnetic Compatibility Directive 2014/30/EU UL/CUL: UL60950-1	Event Trigger						Smart Phone	iOS, Android
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MIPEG(sub stream) UL60950-1							Certifications	2014/30/EU FCC:47 CFR FCC Part 15, Subpart B
			MJPEG(sub stream) 3 Streams					

Interface

Video Interface	1 Port(For adjustment only)
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC

Electrical

Power Supply	DC12V(±30%), AC24V(±30%), PoE(802.3af)(Class 0)
Power Consumption	DC12V:4.9W 12.4W(IR on) AC24V: 5.1W 11.9W(IR on) PoE:5.2W 11.6W(IR on)

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / 10%RH~95% RH
Strorage Conditions	+5° C $^{\sim}$ +40° C (+41° F $^{\sim}$ +104° F) (daily temperature difference within 15° C/59° F) / 10%RH $^{\sim}$ 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal,plastic
Dimensions	Ф159mm×117.9mm (6.26"×4.64")
Net Weight	0.95kg (2.09lb)
Gross Weight	1.20kg (2.65lb)

Ordering Ir	Ordering Information					
Type	Part Number	Description				
	DH-IPC- HDBW5541EP-Z5E	5MP WDR IR Dome Al Network Camera,PAL				
5MP camera	DH-IPC- HDBW5541EN-Z5E	5MP WDR IR Dome AI Network Camera, NTSC				
	IPC-HDBW5541EP- Z5E	5MP WDR IR Dome AI Network Camera,PAL				
	IPC-HDBW5541EN- Z5E	5MP WDR IR Dome AI Network Camera, NTSC				
	PFA138	Junction Box				
	PFB210W	Wall mount				
Accessories	PFB300C	Ceiling mount				
(optional)	PFA152-E	Pole mount				
	PFA101	Mount adapter				
	PFB201C	In-ceiling mount				

Accessories

Optional:









PFB210W Wall mount

PFA138 Juntion Box

In-ceiling mount

LR1002 ePoE Over Coax Converter







PFB300C Ceiling mount

PFA152-E Pole mount

PFA101 Mount adapter

In-ceiling Mount	Junction Mount	Pole Mount	
PFB201C	PFA138	PFB210W + PFA152-E	
0			
Ceiling Mount	Wall Mount		
PFA101 + PFB300C	PFB210W(Indoor)	PFB210W(Outdoor)	

Dimensions (mm/inch)





