

DH-IPC-HFW5541E-ZE

5MP WDR IR Bullet AI 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 Al 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
- · 20 fps@2592 × 1944, 50/60 fps@1080 (1920 × 1080)
- · WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.7 mm-13.5 mm motorized lens
- · 2/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50 m
- · 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.



Camera								2592 × 1944/2688 × 1520/2560 × 1440/2304 ×
Integs Sensor 12.77 SNeegables progressive sun CMOS Effective Fields 2509 play x 1944 ply Frame Rate 1500 x 1940 ply pre-1006 play 1940 play						Resolution	1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 ×	
Final Paper	Image Sensor	1/2.7" 5Mega	1/2.7" 5Megapixel progressive scan CMOS				Main Stream: 2592 × 1944 (1 fps–20 fps)	
	-		2592 (H) × 19					
Betronic shutter Speed Auto/Manual, 173 s-17300000 s Bit Butler Control CBR/VBR			1 GB/128 MB	3			Frame Rate	
Minimum illumination O. O.D.15 LogET.1.5 Bit Rate	Scanning System		Progressive					Third Stream: 1080P (1 fps–17 fps)
Bit face But account But	Electronic Shutte	er Speed	Auto/Manua	l, 1/3 s–1/100	0000 s		Bit Rate Control	CBR/VBR
Ro n/Off Control Auto/Manual Bit C Mode BLC/HLC/YDR [120 dB)	Minimum Illumin	ation	0.015 Lux@F	1.5			Bit Rate	·
Re LEDS 4 White Balance Auto/Natural/Street Lamp/Outdoor/Manual	IR Distance		Distance up t	to 50 m (164 f	t)		Day/Night	Auto(ICR)/Color/B/W
Lens Type Motorized Mount Type Board-in Mount Type Board-in Mount Type Board-in Mount Type Board-in Motion Detection Off/On [4 Zone, Rectangle) Support (IS) Support Defection Support Defection Support Defection N/A Defective Type Auto Defection Off/On [4 Zone, Rectangle) Defection N/A Parture Type Auto Defection Off/On [4 Zone, Rectangle) N/A Privacy Mosking Off/On [4 Zone, Rectangle) Audio Off/On [4 Zone, Rectangle) Off/On [4 Zone, Rectangle) Audio Off/On [4 Zone, Rectangle) Off/On [4 Z	IR On/Off Contro	ıl	Auto/Manua	I			BLC Mode	BLC/HLC/WDR (120 dB)
Lens Type Motoritzed Noise Reduction 30 DNR Mount Type Board-in Motion Detection Off/On (4 Zone, Rectangle) Mount Type Region of Interest Off/On (4 Zone, Rectangle) Max. Aperture FL5 F	IR LEDs		4				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Mount Type Board in Focal Length Azerture F1.5 Angle of View H: 104"-28", V: 72"-21" (593 × 1944) H: 104"-28", V: 72"-21" (194 × 1944) H: 104"-28", V: 72"-21	Lens						Gain Control	Auto/Manual
Focal Length 2.7 mm-13.5 mm Region of Interest Off/On (4 Zone) Max. Aperture F1.5 Angle of View H- 100*-28*, V-72*-21* (2592 x 1944) H- 100*-29*, V-55*-16* (268 x 1520) Defog Support Aperture Type Auto Defog Support Close Focus Distance O.8 m (2.62 ft) Digital Zoom N/A Aperture Type Auto Defog Support Lens Detect Observe Recognize Identify Mirror Off/On (4 Area, Rectangle) DORI Distance W 64m(20ft) 26m(85ft) 13m(43ft) 6m(20ft) Privacy Masking Off/On (4 Area, Rectangle) Pan/Tilt/Rotation T 212m(896ft) 85m(279ft) 42m(138ft) 21m(69ft) Pan/Tilt/Rotation Range Pan: 0*-360*, Tilt: 0*-90*, Rotation: 0*-360* Artificial Intelligence Support face image capture Support face image capture Support face image capture Protocol FFP, DHCP, DNS, DONS, PPROB, IPMAN, SNMP, DoS, UMPN, Price, Plank, Polis, Sprons, Profile GJ, CGI, Milstone, Genetec, Pac Support face image capture Protocol FFP, DHCP, DNS, DONS, PPROB, IPMAN, SNMP, DoS, UMPN, Price, Plank, Polis, Profile GJ, CGI, Milstone, Genetec, Pac Support face image capture Protocol FFP, DHCP, DNS, DONS, PPROB, IPMAN, SNMP, DoS, UMPN, Price, Plank, Polis, Profile GJ, CGI, Milstone, Genetec, Pac Protocol Profile GJ, CGI, Milstone,	Lens Type		Motorized				Noise Reduction	3D DNR
Max. Aperture F1.5 Angle of View H2.100^285, V.72^2-21* (2592 x 1944) H2.104^2-39*, V.55*-16* (2688 x 1520) Optical Zoom Sx Aperture Type Auto Close Focus Distance Uniform Lens Detect Descript Defect Observe Recognize Identify DORI Distance W 64m(210ft) 25m(85ft) 13m(43ft) 6m(20ft) T 212m(696ft) 85m(279ft) 42m(138ft) 21m(69ft) Audio Compression G711e, G711Mu, AAC, G.726, G.723 Network Artificial Intelligence Face Capture Support & Kinds of face attributes extraction: Age, Gender, Expression (Jolly, Surprise, Normal, Rage, Sod, Dieguisted, Confrequed, Glasses, Mouth Mask, Moustache & Beard Perimeter Protection Tripwire, Intrusion (Human & Webicle classification) Support 1 & Group Counting, Support 1 & Group Counting, Support 1 & Group Counting, Support 4 accesses independent detection 4 areas independent detection Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly General Intelligence Video Figh Support Support 1 & Group Counting Motion detection, Video tampering, Scene changing, Network disconnection, IP, address conflict, Illegal Access, Storage anomaly General Intelligence Object Abandoned/Missing Fields Support Support 1 & Group Counting Counting Counting Counting Support 4 accesses independent detection Arriager Motion detection, Video tampering, Scene changing, Network disconnection, IP, address conflict, Illegal Access, Storage anomaly General Intelligence Object Abandoned/Missing Certifications Fields Support 1 & Group Cart Abandoned/Missing Fields Support 1 & Group Cart Abandoned/	Mount Type		Board-in				Motion Detetion	Off/On (4 Zone, Rectangle)
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Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly General Intelligence Object Abandoned/Missing Video Management Software Smart PSS, DSS, P2P Smart Phone iOS, Android Certifications	General Intelligence			Web Viewer	IE (versions newer than IE8), Chrome,			
General Intelligence Object Abandoned/Missing Certifications Video	Event Trigger		Network disconnection , IP address conflict, Illegal				Management Software	
Certifications Video	General Intelligence						Smart Phone	iOS, Android
	-		Object Abandoned/Missing				Certifications	
Compression H.265+, H.264+, H.264, H.264B, H.264B, H.264H, CE-EMC: Electromagnetic Compatibility Directive						1.264Н,	,	CE-EMC: Electromagnetic Compatibility Directive
MJPEG (sub stream) Certifications 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	·						Certifications	FCC: 47 CFR FCC Part 15, Subpart B

Interface

Video Interface	N/A
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	2 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC

Electrical

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)
Power Consumption	<10.9W

Environmental

Operating Conditions	-30° C to +60° C (-22° F to +140° F) /10%RH-95%RH
Strorage Conditions	-30° C to +60° C (-22° F to +140° F)
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal, plastic
Dimensions	273.2 mm × 95.0 mm × 95.0 mm (10.76" × 3.74" × 3.74")
Net Weight	1.11 kg (2.44 lb)
Gross Weight	1.51 kg (3.33 lb)

Ordering In	nformation	
Туре	Part Number	Description
	DH-IPC- HFW5541EP-ZE	5MP WDR IR Bullet AI Network Camera, WDR, PAL
5MP camera	DH-IPC- HFW5541EN-ZE	5MP WDR IR Bullet AI Network Camera, WDR, NTSC
	IPC-HFW5541EP-ZE	5MP WDR IR Bullet AI Network Camera, WDR, PAL
	IPC-HFW5541EN- ZE	5MP WDR IR Bullet AI Network Camera, WDR, NTSC
Accessories (optional)	PFA152-E	Pole mount

Accessories

Optional:



PFA152-E Pole Mount



LR1002 ePoE Over Coax Converter

Ceiling Mount	Wall Mount	Pole Mount
		PFA152-E

Dimensions (mm[inch])







