

DH-IPC-HFW5241T-ASE

2MP 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 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

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm, 6mm, 8mm,12mm optional)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 80m
- · Micro SD memory, IP67













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, wide voltage)

The camera allows for ±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), the camera is the choice for installation in even the most unforgiving environments.

Technical Spo	ecification					Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address
Camera					conflict, Illegal Access, Storage anomaly		
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS)S	General Intelligence	Object Abandoned/Missing
Effective Pixels		1920(H) x 10	1920(H) x 1080(V)			Video	
RAM/ROM		512MB/128N	512MB/128MB			Compression	H.265/H.264/H.264B/H.264H/MJPEG(sub stream)
Scanning System		Progressive			Streaming Capability	3 Streams	
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(12:0×720)/D1(704×576/704×480)/VGA(640×480)
Minimum Illumination		0.002103Lux/F1.6 (Color,1/3s,30IRE) 0.01232Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6 (IR on)					CIF(352×288/352×240)
		2.8mm:Distance up to 20m (66ft)					Main Stream: 1080P(1~25/30fps)
IR Distance		3.6mm:Distance up to 35m (115ft) 6mm:Distance up to 48m (157ft) 8mm:Distance up to 60m (197ft) 12mm:Distance up to 80m (262ft)				Frame Rate	Sub Stream: D1(1~25/30fps)
							Third Stream: 1080P(1~6fps)
IR On/Off Contro	I	Auto/ Manua	I			Bit Rate Control	CBR/VBR
IR LEDs		4	4			Bit Rate	H.264: 32~ 8192Kbps H.265: 19~ 7424Kbps
Lens						Day/Night	Auto(ICR) / Color / B/W
Lens Type		Fixed	Fixed			BLC Mode	BLC/HLC/WDR(120dB)
Mount Type		Board-in	Board-in			White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Focal Length		2.8mm,3.6mm,6mm,8mm,12mm			Gain Control	Auto/Manual	
Max. Aperture		F1.6(2.8mm~8mm),F2.0(12mm)			Noise Reduction	3D DNR	
Angle of View		H: 106°, V:57°/H: 87°, V:46°/H: 53°, V:30°/ H: 41°, V:23°/H: 26°, V:14°		/	Motion Detetion	Off / On (4 Zone, Rectangle)	
Optical Zoom		N/A			Region of Interest	Off / On (4 Zone)	
Aperture Type		Fixed			Electronic Image Stabilization (EIS)	Support	
Close Focus Dista	nce	0.6m(1.97ft)/1.2m(3.94ft)/2.5m(8.20ft)/4m(13.12f t)/8.6m(28.22ft)			/4m(13.12f	Smart IR	Support
	Lens	Detect	Observe	Recognize	Identify	Defog	Support
	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)	Digital Zoom	N/A
	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)	Flip	0°/90°/180°/270°
DORI Distance	6mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)	Mirror	Off / On
	8mm	110m(361ft)	44m(144ft)	22m(72ft)	11m(36ft)	Privacy Masking	Off / On (4 Area, Rectangle)
	12mm	172m(564ft)	69m(226ft)	35m(115ft)	17m(56ft)	Audio	
Pan/Tilt/Rotati	ion					Compression	G.711a/ G.711Mu/ AAC/ G.726/G.723
Pan/Tilt/Rotation Range		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°			0°	Network	
Artificial Intelligence			Ethernet	RJ-45 (10/100Base-T)			
Face Caputure		Support face image caputure				Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP;SMTP;
Face Attributes		Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly/Surprise/Normal/ Rage/Sad/Disgusted/Confused/Frightened),			lormal/ ed),		FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMF UPnP;NTP
Perimeter Protection		Glasses, Mouth Mask, Moustache & Beard Tripwire, Intrusion (Human & Vehicle classification)				Interoperability	ONVIF(Profile S/Profile G), CGI,Milstone,Genetec,P2P
		Line crossing people counting, Region people			Streaming Method	Unicast / Multicast	
People Counting		counting,Loit				Max. User Access	20 Users
General Intelligence			Edge Storage	NAS FTP Mirco SD card 256GB			

Pro Al Series | DH-IPC-HFW5241T-ASE

Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)	
Management Software	Smart PSS, DSS, P2P	
Smart Phone	iOS, Android	

Certifications

Certifications	CE-LVD:EN60950-1 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
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Interface

Video Interface	N/A
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, PoE(802.3af)(Class 0)
Power Consumption	DC12V:1.7W 6.9W(IR on) PoE:2.5W 8.3W(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	N/A

Construction

Casing	Metal
Dimensions	244.1mm×79.0mm×75.9mm (9.61"×3.11"×2.99")
Net Weight	0.815Kg (1.80lb)
Gross Weight	1.08Kg (2.38lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HFW5241TP-ASE	2MP WDR IR Bullet AI Network Camera, WDR,PAL		
2MP camera	DH-IPC- HFW5241TN-ASE	2MP WDR IR Bullet AI Network Camera, WDR,NTSC		
	IPC-HFW5241TP- ASE	2MP WDR IR Bullet AI Network Camera, WDR,PAL		
	IPC-HFW5241TN- ASE	2MP WDR IR Bullet AI Network Camera, WDR,NTSC		
	PFA130-E	Junction box		
Accessories (optional)	PFA152-E	Pole Mount		
(),	PFA151	Corner Mount		

Accessories

Optional:







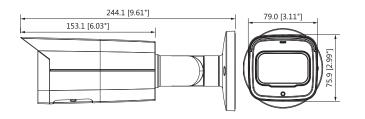
PFA130-E Junction box

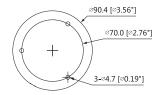
PFA152-E Pole Mount

PFA151 Corner Mount

Junction Mount	Pole Mount	Corner Mount
PFA130-E	PFA130-E+ PFA152-E	PFA130-E + PFA151

Dimensions (mm/inch)







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