

DH-IPC-HFW8241X-3D

2MP Dual-Lens Stereo Vision Al Network Camera



Deep 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, behavior analysis, 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

The Dahua Stereo Vision Behavior Analysis camera uses dual-lens imaging technology to capture 3D 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 five types analysis, like fall detection, strand detection, people approach, people NO. error detection and violence detection.

Functions

Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.003 lux).

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. 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

- Two 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25fps/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 optional)
- · 3/2 Alarm in/out, 1/1 audio in/out, build-in MIC
- · Max. IR LEDs Length 40m
- · Micro SD memory 256GB, IP67, PoE
- · Five Types Stereo Analysis: Support fall detection, strand detection, people approach, people NO. error detection, violence detection











and wiring cost.

Wide dynamic range (WDR)

Embeded with industry leading wide dynamic range (WDR) technology, vivid picutures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

Protection (IP67, wide voltage)

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides effective protection for both the camera and its structure against lightning.IP67 is supported by the camera, which makes it suitable for both indoor and outdoor environments.

Stereo analysis

Dahua Stereo analysis camera including fall detection, strand detection, people approach, people NO. error detection and violence detection five types analysis, is designed to provide a high-efficiency, real-time and cost-effective system powered by artificial intelligence and binocular stereo vision technology. Behavior analysis and Al-enabled security products can offer precise and real-time alarm alert, and realize fast alarm video retrieval in time.



Technical S	necification					Starlight	Yes
Technical Specification Camera						Bit Rate Control	CBR/VBR
		1/2.8"CMOS					H.264: 1792~ 9216Kbps
Image Sensor						Bit Rate	H.265: 512~ 5632Kbps
Effective Pixels		1920(H) x 1080(V)				Day/Night	Auto(ICR) / Color / B/W
RAM/ROM		4096MB/4096MB				BLC Mode	BLC / HLC / WDR(120dB)
Scanning System		Progressive				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Minimum Illumination		0.003Lux/F1.4 (Color,1/3s,30IRE) 0.03Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)				Gain Control	Auto/Manual
IR Distance		Distance up to 40m(131ft)				Noise Reduction	3D DNR
IR On/Off Control		Auto/ Manual				Motion Detection	Off / On (4 Zone, Rectangle)
IR LEDs		2				Region of Interest	Off / On (4 Zone)
Lens						Electronic Image Stabilization (EIS)	N/A
Lens Type		Fixed				Smart IR	Support
Mount Type		Board-in				Defog	N/A
Focal Length		2.8mm (3.6i	mm, 6mm)			Digital Zoom	16x
Max. Aperture		F1.6				Flip	N/A
Angle of View Optical Zoom		H: 111° (86°,54°), V:62° (46°,30°),				Mirror	N/A
Focus Control		N/A Fixed				Privacy Masking	Off / On (4 Area, Rectangle)
Close Focus Distance		0.7m (1.2m,2.4m)				Audio	,(·····, ··g,
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Addio	
	2.8 mm	29m(95ft)	16m(52ft)	6m(20ft)	3m(10ft)	Compression	G.711a/ G.711Mu/ AAC/ G.726
	3.6 mm	43m(141ft)	17m(56ft)	9m(30ft)	4m(13ft)	Network	
	6 mm	50m(164ft)	20m(66ft)	10m(33ft)	5m(16ft)	Ethernet	RJ-45 (100/1000Base-T)
Pan/Tilt/Rot							HTTP; TCP; RTSP; UDP; DHCP; DDNS; PPPoE; IPv4/v6; SNMP; HTTPS; SMTP; UPnP; Bonjour; 802.1X;
Pan/Tilt/Rotati	on Range	Pan:0°~360°; Tilt:0°~90°;					QoS; P2P; ONVIF; ARP; RTP; RTCP; DNS; FTP; NTP
Artificial Int	5 W L	6	5 1		Interoperability	Third party access ONVIF; CGI; Genetec; Milestone	
Behavior analysis		Fall detection, Strand detection, People approach, People NO. error detection, Violence detection				Streaming Method	Unicast / Multicast
General Inte	elligence					Max. User Access	10 Users/20 Users
Event Trigger	Event Trigger			tampering, Sc p address con	ene changing, iflict, Illegal	Edge Storage	NAS Local PC for instant recording Mirco SD card 256GB
General Intellig	General Intelligence		rusion, Objec	t Abandoned,	/Missing, Heat	Web Viewer	IE, Chrome, Firefox, Safari
Video		Мар				Management Software	Smart PSS, DSS, DMSS
Compression		H.265/H.264H/MJPEG(Sub Stream)				Smart Phone	IOS, Android
Smart Codec		Support H.265+/H.264+				Certifications	
Streaming Capability		3 Streams				Certifications	CE (EN 60950:2000) UI:UL60950-1 FCC: FCC Part 15 Subpart B
Resolution		1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480) / VGA(640x480)/ CIF(352×288/342x240)				Interface	
		Mein C	o. 2000 /4=:25	/20fm-\		Video Interface	1 port (For Adjustment Only)
Frame Rate			n: 2MP (1~25, 1: D1 (1 ~ 25/			Audio Interface	1/1 channel in/out (3.5mm JACK port)
						RS485	1 port
		Sub Stream 2: 2MP (1~25fps/30fps)					

Net Weight

Gross Weight

Alarm	3 channels in: 5mA 3V–5V DC 2 channels out: 1,000mA 30V DC/500mA 50V DC
Electrical	
Power Supply	POE(IEEE 802.3at)
Power Consumption	< 8.77W
Environmental	
Operating Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH
Storage Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	N/A
Construction	
Casing	Metal + plastic
Dimensions	176.9mmx230.9mmx50.4mm (6.97"x9.09"x1.99")

1.9kg (4.2lb)

2.3kg (5.1lb)

Ordering Information									
Туре	Part Number	Description							
	DH-IPC- HFW8241XP- 3D-0280	2MP Dual-Lens Behavior Analysis Al Network Camera,PAL							
	DH-IPC- HFW8241XN- 3D-0280	2MP Dual-Lens Behavior Analysis AI Network Camera,NTSC							
	IPC-HFW8241XP- 3D-0280	2MP Dual-Lens Behavior Analysis Al Network Camera,PAL							
	IPC-HFW8241XN- 3D-0280	2MP Dual-Lens Behavior Analysis Al Network Camera,NTSC							
	DH-IPC- HFW8241XP- 3D-0360	2MP Dual-Lens Behavior Analysis Al Network Camera,PAL							
2MP Camera	DH-IPC- HFW8241XN- 3D-0360	2MP Dual-Lens Behavior Analysis Al Network Camera,NTSC							
	IPC-HFW8241XP- 3D-0360	2MP Dual-Lens Behavior Analysis Al Network Camera,PAL							
	IPC-HFW8241XN- 3D-0360	2MP Dual-Lens Behavior Analysis Al Network Camera,NTSC							
	DH-IPC- HFW8241XP- 3D-0600	2MP Dual-Lens Behavior Analysis Al Network Camera,PAL							
	DH-IPC- HFW8241XN- 3D-0600	2MP Dual-Lens Behavior Analysis Al Network Camera,NTSC							
	IPC-HFW8241XP- 3D-0600	2MP Dual-Lens Behavior Analysis Al Network Camera,PAL							
	IPC-HFW8241XN- 3D-0600	2MP Dual-Lens Behavior Analysis Al Network Camera,NTSC							
Accessories	Junction Box(Default)	Wall Mount							
(optional)	PFA154	Pole Mount							

Installation

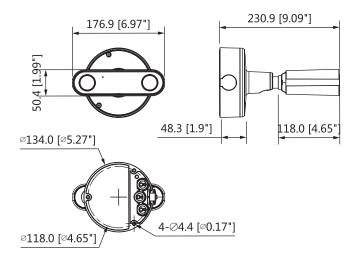
Optional:



PFA154 Pole Mount

Junction Mount	Wall Mount	Pole Mount

Dimensions (mm/inch)





Rev 001.001