

DH-IPC-HF8242F-FD

2MP Starlight Face Detection Box Network Camera



System Overview

Ultra series product adopts high performance DSP and Sony advanced image sensor technology, which can provide excellent image effects for users such as UHD resolution, starlight and super WDR etc. The series utilizes Dahua advanced software algorithm, which is able to support people counting and heat map, bringing extra business analysis value for customers; IP67, IK10 and heater compliance enables the product to be applied in a more harsh environment.

Functions

Deep Learning

Deep learning is part of a broader family of machine learning methods based on learning data representations, as opposed to task-specific algorithms. As a breakthrough technology in the field of artificial intelligence (AI), deep learning architectures such as deep neural networks, deep belief networks and recurrent neural networks have been applied to fields including computer vision, natural language processing, audio recognition, and machine translation, where they have shown excellent performance.

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 (0.005 lux).

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.

Intelligent Video System (IVS)

Dahua camera has a built-in video analysis based on intelligent

- \cdot 1/1.9" 2Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 50/60fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- \cdot Auto back focus(ABF)
- Micro SD memory, PoE

 \cdot Face Detection: built-in deep learning algorithm, support face images capture and facial attributes analysis



algorithms and can achieve the following:Tripwire,Intrusion,Abandoned/ Missing can timely, quickly and accurately respond to monitoring events in specific area. It enhances monitoring efficiency. At the same time, the camera can support face detection,it can quickly capture a face and upload the image to the server. In addition the camera also supports intelligent tamper detection,through dramatic changes in the scene it will send out warning information to ensure effective monitoring.

Business intelligent analysis (People counting, Heatmap)

Dahua Camera also supports more advanced intelligent features such as people counting and heat map besides basic IVS functions. These two functions can be applied to business intelligence and bring extra values to customers. It is available to acquire daily, weekly, monthly and yearly people flow via people counting and output data report. Heat map can be based on a moving object in time of space movement for analysis, find the most active area and output the report, which is to provide valuable data support for commercial applications.

Smart Scene Adaptive (SSA)

Smart Scene Adaptive (SSA) is a Dahua self-developed intelligent image technology, the camera automatically evaluates the change in scene, in particular strong lights. In a strong backlight environment, it will automatically regulate exposure parameters to get better image quality. This can effectively address the impact of traffic lights, providing excellent video quality.

HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream , encoding quality , and the delay between algorithm complexity , optimize settings specific contents include : Improve compression efficiency , improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay , reduce complexity , etc



Technical Specification

Camera

Camera				
Image Sensor	1/1.9" 2Megapixel progressive scan CMOS			
Effective Pixels	1920(H)x1080(V)			
RAM/ROM	2048MB/4096MB			
Scanning System	Progressive			
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s			
Minimum Illumination	0.001Lux/F1.2(Color,1/3s,30IRE) 0.01Lux/F1.2(Color,1/30s,30IRE) 0.0005Lux/F1.2(B/W,1/3s,30IRE) 0.005Lux/F1.2(B/W,1/30s,30IRE)			
S/N Ratio	More than 50dB			
IR Distance	N/A			
IR On/Off Control	N/A			
IR LEDs	N/A			
Lens				
Lens Type	N/A			
Mount Type	C/CS			
Focal Length	N/A			
Max. Aperture	N/A			
Angle of View	N/A			
Optical Zoom	N/A			
Focus Control	N/A			
Close Focus Distance	N/A			
Pan/Tilt/Rotation				
Pan/Tilt/Rotation Range	N/A			
Intelligence				
IVS	Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intelligent Functions	Face Detection: Support 6 kinds of facial features extraction: Age, Gender, Expression(Jolly, Calm, Surprise, Sad, Rage), Glasses, Mask, Moustache; People Counting, Heat Map			
Video				
Compression	H.265+/H.265/H.264+/H.264			
Streaming Capability	3 Streams			
Resolution	1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480)/ VGA(640x480)			
Frame Rate	Main Stream: 1080P(1~50/60fps)			
	Sub Stream: D1 (1 ~ 50/60fps)			
	Third Stream: 1080P(1~50/60fps)			
Bit Rate Control	CBR/VBR			
Bit Rate	H.264: 24~ 10240Kbps H.265: 14~ 6144Kbps			
Day/Night	Auto(ICR) / Color / B/W			
BLC Mode	BLC / HLC / WDR(120dB)/ SSA			

White Balance	Auto/Natural/Street Lamp/Outdoor/Manual			
Gain Control	Auto/Manual			
Noise Reduction	3D DNR			
Motion Detetion	Off / On (4 Zone, Rectangle)			
Region of Interest	Off / On (4 Zone)			
Electronic Image Stabilization (EIS)	Support			
Smart IR	N/A			
Defog	Support			
Digital Zoom	16x			
Flip	0°/90°/180°/270°			
Mirror	Off / On			
Privacy Masking	Off / On (4 Area, Rectangle)			
Audio				
Compression	G.711a/G.711Mu/AAC/G.726			
Network				
Ethernet	RJ-45 (100/1000Base-T)			
Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;802.1x;Multicast;ICMP;IGMP;SNMP			
Interoperability	ONVIF, PSIA, CGI			
Streaming Method	Unicast / Multicast			
Max. User Access	10 Users/20 Users			
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB			
Web Viewer	IE, Chrome, Firefox, Safari			
Management Software	Smart PSS, DSS, Easy4ip			
Smart Phone	IOS, Android			
Certifications				
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B			
Interface				
Video Interface	1 port(BNC,1Vp-p,75Ω)			
Audio Interface	2/1 channel In/Out, 1 Built-in Mic			
RS485	1 port			
Alarm	2 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC			
Electrical				
Power Supply	DC12V, AC24V, PoE(802.3af)(Class 0)			
Power Consumption	<10W			

Ultra Series | DH-IPC-HF8242F-FD

Environmental	
Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
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Ingress Protection	N/A
Vandal Resistance	N/A
Construction	
Casing	Metal
Dimensions	161.6mm×85.5mm×74.0mm (6.36"×3.37"×2.91")
Net Weight	0.78Kg (1.72lb)
Gross Weight	0.92Kg (2.03lb)

Ordering Information				
Туре	Part Number	Description		
F 2MP camera If	DH-IPC-HF8432FP- FD	2MP Starlight Face Detection Box Network Camera, PAL		
	DH-IPC-HF8242FN- FD	2MP Starlight Face Detection Box Network Camera, NTSC		
	IPC-HF8242FP-FD	2MP Starlight Face Detection Box Network Camera, PAL		
	IPC-HF8242FN-FD	2MP Starlight Face Detection Box Network Camera, NTSC		
Accessories (optional)	PFB110W	Wall mount		
	PFB121W	Wall mount		

Link: http://www.dahuasecurity.com/products/ipc-hf8242f-fd-18301.html

Accessories

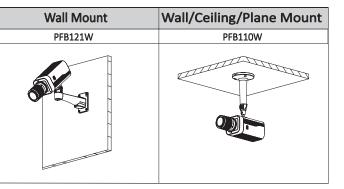
Optional:



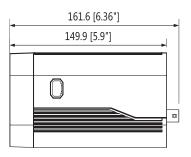


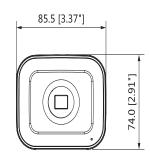
PFB110W Wall mount





Dimensions (mm/inch)







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