

DH-IPC-HFW8232E-Z

2MP Starlight IR Bullet 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

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 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

- 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
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 4.1mm ~16.4mm motorized lens
- \cdot Max. IR LEDs Length 50m
- · Micro SD memory, IP67, IK10, PoE+



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

Environmental

With a temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.



Ultra Series | DH-IPC-HFW8232E-Z

Technical Specification

Camera

Camera					
Image Sensor		1/1.9" 2Megapixel progressive scan CMOS			
Effective Pixels		1920(H)x1080(V)			
RAM/ROM		1024MB/128MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.002Lux/F1.53 (Color,1/3s,30IRE) 0.01Lux/F1.53 (Color,1/30s,30IRE) 0Lux/F1.53(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 50m(164ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		4			
Lens					
Lens Type		Motorized /Auto Iris(HALL)			
Mount Type		Board-in			
Focal Length		4.1~16.4mm motorized			
Max. Aperture		F1.53			
Angle of View		H: 80°~32°, V:47°~18°			
Optical Zoom		4x			
Focus Control		Motorized			
Close Focus Distance		0.5m(1.64ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	57m(187ft)	23m(75ft)	11m(36ft)	6m(20ft)
	т	137m(449ft)	55m(180ft)	27m(89ft)	14m(49ft)
Pan/Tilt/Ro	tation				
Pan/Tilt/Rotati	on Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°			
Intelligence					
IVS		Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intelligent Functions		Face Detection, People Counting, Heat Map			
Video					
Compression		H.265+/H.265/H.264+/h.264			
Streaming Capability		3 Streams			
Resolution		1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)/ D1(704×576/704×480) / VGA(640×480)/ CIF(352×288/342×240)			
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	Support		
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;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(For adjustment only)		
Audio Interface	1/1 channel In/Out		
RS485	N/A		
Alarm	2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC		
Electrical			
Power Supply	DC12V, PoE+(802.3at)(Class 4)		
Power Consumption	<13W		

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Environmental			
Operating Conditions	-40° C $^{\sim}$ +60° C (-40° F $^{\sim}$ +140° F) / Less than 95% RH		
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Ingress Protection	IP67		
Vandal Resistance	IK10		
Construction			
Casing	Metal		
Dimensions	273.2mm×95.0mm×96.4mm (10.76"×3.74"×3.79")		
Net Weight	1.12Kg (2.47lb)		
Gross Weight	1.52Kg (3.35lb)		

Ordering Information

Туре	Part Number	Description	
2MP camera	DH-IPC- HFW8232EP-Z	2MP Starlight IR Bullet Network Camera,PAL	
	DH-IPC- HFW8232EN-Z	2MP Starlight IR Bullet Network Camera,NTSC	
	IPC-HFW8232EP-Z	2MP Starlight IR Bullet Network Camera,PAL	
	IPC-HFW8232EN-Z	2MP Starlight IR Bullet Network Camera,NTSC	
Accessories (optional)	PFA121	Junction box	
	PFA152	Pole Mount	

Accessories

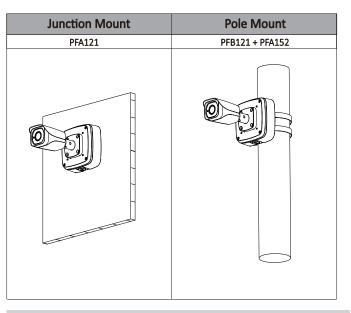
Optional:



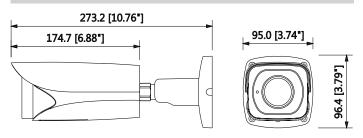


PFA121 Junction box

PFA152 Pole mount



Dimensions (mm/inch)



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