

DH-IPC-HFW8331E-Z

3MP WDR IR Bullet Network Camera



- · 1/2.8" 3Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@3M(2048×1536)
- · WDR(140dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~13.5mm motorized lens
- · Max. IR LEDs Length 50m
- · Micro SD memory, IP67, IK10, PoE+

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).

Ultra WDR

Standard WDR/HDR camera can provide 120dB dynamic range, However, for some scenes with wider contrast range, 120dB is slightly insufficient. By adopting the latest technology, Dahua Cameras can provide an amazing dynamic range up to140dB.

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 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.



Technical Sp	ecification					Day/Night	Auto(ICR) / Color / B/W
Camera						BLC Mode	BLC / HLC / WDR(140dB)/ SSA
Image Sensor		1/2.8"3Megapixel progressive scan CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		2048(H)x1536(V)				Gain Control	Auto/Manual
RAM/ROM		1024MB/128MB				Noise Reduction	3D DNR
Scanning System		Progressive				Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.005Lux/F1.4 (Color,1/3s,30IRE) 0.03Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)				Electronic Image Stabilization (EIS)	Support
S/N Ratio		More than 50dB				Smart IR	Support
IR Distance		Distance up to 50m(164ft)				Defog	Support
IR On/Off Contro	ol	Auto/ Manual				Digital Zoom	16x
IR LEDs		4				Flip	0°/90°/180°/270°
Lens						Mirror	Off / On
Lens Type		Motorized /Auto Iris(HALL)				Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type		Board-in				Audio	
Focal Length		2.7~13.5mm motorized				Compression	G.711a/G.711Mu/AAC/ G.726
Max. Aperture		F1.4				Network	
Angle of View		H: 101°~31°, V:54°~17°				Ethernet	RJ-45 (100/1000Base-T)
Optical Zoom		5x					HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTF
Focus Control		Motorized				Protocol	DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTI Bonjour;802.1x;Multicast;ICMP;IGMP;SNMP
Close Focus Distance		0.3m(0.98ft)				Interoperability	ONVIF, PSIA, CGI
2001	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
DORI Distance	W	54m(177ft)	22m(72ft)	11m(36ft)	5m(16ft)	Max. User Access	10 Users/20 Users
Pan/Tilt/Rota	t ation	166m(545ft)	66m(217ft)	33m(108ft)	17m(56ft)	Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rotation	n Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence						Management Software	Smart PSS, DSS, Easy4ip
IVS		Tripwire, Intru	usion, Object	Abandoned/N	Missing	Smart Phone	IOS, Android
Advanced Intellig	gent Functions	Face Detection, People Counting, Heat Map				Certifications	,
Video						certifications	CE (EN 60950:2000)
Compression		H.265+/H.265	5/H.264+/H.2	64		Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability		3 Streams				Interface	
5 L.:			3M(2048x1536)/ 1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/			Video Interface	1 Port(For adjustment only)
Resolution		D1(704×576/704×480)/ VGA(640×480)/ CIF(352×288/342×240)				Audio Interface	1/1 channel In/Out
Frame Rate		Main Stream: 3M(1~50/60fps)				RS485	N/A
		Sub Stream: D1 (1 ~ 50/60fps)				Alarm	2 channel In: 5mA 5VDC
		Third Stream: 1080P(1~50/60fps)				Electrical	1 channel Out: 1A 30VDC / 0.5A 50VAC
Bit Rate Control		CBR/VBR				Power Supply	DC12V, PoE+ (802.3at)(Class 4)
Bit Rate		H.264: 24~ 10240Kbps				Power Consumption	<13W
Die Nace		H.265: 14~ 9216Kbps				. Ower consumption	

Ultra Series | DH-IPC-HFW8331E-Z

Environmental

Operating Conditions	-40° C ~ +60° C (-40° F ~ +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				
	DH-IPC- HFW8331EP-Z	3MP WDR IR Bullet Network Camera,PAL				
3MP camera	DH-IPC- HFW8331EN-Z	3MP WDR IR Bullet Network Camera,NTSC				
SIVIP Camera	IPC-HFW8331EP-Z	3MP WDR IR Bullet Network Camera,PAL				
	IPC-HFW8331EN-Z	3MP WDR IR Bullet Network Camera,NTSC				
Accessories (optional)	PFA121	Junction box				
	PFA152	Pole Mount				

Accessories

Optional:



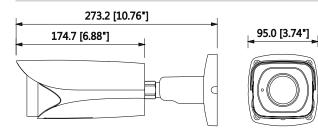


PFA121 Junction box

PFA152 Pole mount

Junction Mount	Pole Mount
PFA121	PFB121 + PFA152

Dimensions (mm/inch)



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