

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
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~13.5mm motorized lens
- \cdot Max. IR LEDs Length 50m
- · Micro SD memory, IP67, IK10, PoE+



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.



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

Ultra Series | DH-IPC-HFW8331E-Z

Technical Specification

Camera						
Image Sensor		1/2.8"3Megapixel progressive scan CMOS				
Effective Pixels		2048(H)x1536(V)				
RAM/ROM		1024MB/128MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				
Minimum Illumination		0.005Lux/F1.4 (Color,1/3s,30IRE) 0.03Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)				
S/N Ratio		More than 50dB				
IR Distance		Distance up to 50m(164ft)				
IR On/Off Contro	ol	Auto/ Manual				
IR LEDs		4				
Lens	Lens					
Lens Type		Motorized /Auto Iris(HALL)				
Mount Type		Board-in				
Focal Length		2.7~13.5mm motorized				
Max. Aperture		F1.4				
Angle of View		H: 101°~31°, V:54°~17°				
Optical Zoom		5x				
Focus Control		Motorized				
Close Focus Distance		0.3m(0.98ft)				
DODI	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	W	54m(177ft)	22m(72ft)	11m(36ft)	5m(16ft)	
T Pan/Tilt/Rotation		166m(545ft)	66m(217ft)	33m(108ft)	17m(56ft)	
Pan/Tilt/Rotatio		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°				
Intelligence	0	ran.o 300, mil.o 30, notation.o 300				
IVS		Tripwire, Intrusion, Object Abandoned/Missing				
	gent Functions	Face Detection, People Counting, Heat Map				
Advanced Intelligent Functions						
Compression		H.265+/H.265	5/H.264+/H.2	64/MJPEG		
			H.265+/H.265/H.264+/H.264/MJPEG			
Streaming Capability Resolution		3M(2048x1536)/ 1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480)/ VGA(640x480)/ CIF(352×288/342x240)				
Resolution		1.3M(1280x9 D1(704×576/	960)/ 720P(12 704x480)/ VG			
Resolution		1.3M(1280x9 D1(704×576/ CIF(352×288/	960)/ 720P(12 704x480)/ VG	A(640x480)/		
Resolution Frame Rate		1.3M(1280x9 D1(704×576/ CIF(352×288/ Main Stream:	960)/ 720P(12 704x480)/VG /342x240)	A(640x480)/		
		1.3M(1280x9 D1(704×576/ CIF(352×288/ Main Stream: Sub Stream: [960)/ 720P(12 704x480)/ VG /342x240) : 3M(1~50/60	A(640x480)/ fps) ps)		
		1.3M(1280x9 D1(704×576/ CIF(352×288/ Main Stream: Sub Stream: [960)/ 720P(12 704x480)/ VG /342x240) : 3M(1~50/60 D1 (1 ~ 50/60f	A(640x480)/ fps) ps)		

Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR(140dB)/ 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(AC24V/DC24V Optional),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	
3MP camera	DH-IPC- HFW8331EP-Z	3MP WDR IR Bullet Network Camera,PAL	
	DH-IPC- HFW8331EN-Z	3MP WDR IR Bullet Network Camera,NTSC	
	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

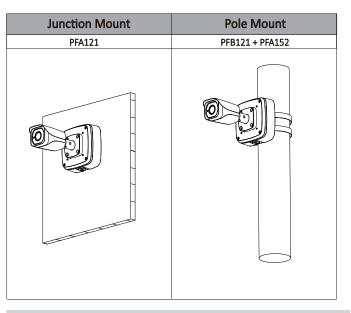
Optional:





PFA121 Junction box

PFA152 Pole mount



Dimensions (mm/inch)

