

# 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
- $\cdot$  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

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## **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 Control		Auto/ Manual			
IR LEDs		4			
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)			
DORI	Lens	Detect	Observe	Recognize	Identify
Distance	W T	54m(177ft)	22m(72ft)	11m(36ft)	5m(16ft)
Pan/Tilt/Ro		166m(545ft)	66m(217ft)	33m(108ft)	17m(56ft)
Pan/Tilt/Rotati		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°			0°
Intelligence	-	, and bee,	11110 50,11		
IVS		Tripwire, Intrusion, Object Abandoned/Missing			
	ligent Functions	Face Detection, People Counting, Heat Map			
Video					P
110.00		H.265+/H.26	5/H.264+/H.2	64	
Compression Streaming Capability		H.265+/H.265/H.264+/H.264			
Resolution		3M(2048x1536)/ 1080P(1920×1080)/			
		1.3M(1280x536)/ 720P(1280x720)/ D1(704×576/704x480)/ VGA(640x480)/ CIF(352×288/342x240)			
Frame Rate		Main Stream: 3M(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~ 9216Kbps			
Dir nate		H.265: 14 <sup>-3</sup> 9.	210Kpbs		

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, 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

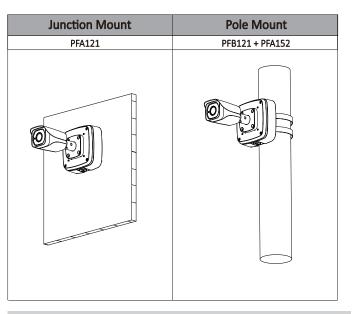
# **Optional:**





PFA121 Junction box

PFA152 Pole mount



# Dimensions (mm/inch)

