

DH-IPC-HFW8231E-Z

2MP WDR IR Bullet Network Camera



- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@1080P(1920×1080)
- · WDR(140dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~12mm 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 Specification							Day/Night	Auto(ICR) / Color / B/W
Camera						BLC Mode	BLC / HLC / WDR(140dB)/ SSA	
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		1920(H)x1080(V)					Gain Control	Auto/Manual
RAM/ROM		1024MB/128MB					Noise Reduction	3D DNR
Scanning System	m	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 Contr	rol	Auto/ Manual					Digital Zoom	16x
IR LEDs		4					Flip	0°/90°/180°/270°
Lens							Mirror	Off / On
Lens Type		Motorized /A	uto Iris(HALL)				Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type		Board-in					Audio	
Focal Length		2.7~12mm motorized					Compression	G.711a/G.711Mu/AAC/ G.726
Max. Aperture		F1.4					Network	
Angle of View		H: 101°~36°, V:53°~20°					Ethernet	RJ-45 (100/1000Base-T)
Optical Zoom		4x					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
Focus Control		Motorized					Interoperability	ONVIF, PSIA, CGI
Close Focus Distance		0.5m(1.64ft)					Streaming Method	Unicast / Multicast
DORI	Lens	Detect	Observe	Recognize	Identify		Max. User Access	10 Users/20 Users
Distance	W	49m(162ft)	20m(66ft)	10m(33ft)	5m(16ft)		Wida. Osci Access	NAS
Da :: /T:lt /Dat	T	125m(410ft)	50m(164ft)	25m(82ft)	13m(43ft)		Edge Storage	Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rot		0 00 000 Till 00 110 1					Web Viewer	IE, Chrome, Firefox, Safari
Pan/Tilt/Rotation		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°					Management Software	Smart PSS, DSS, Easy4ip
Intelligence							Smart Phone	IOS, Android
IVS		Tripwire, Intrusion, Object Abandoned/Missing					Certifications	
Advanced Intelligent Functions Video		Face Detection, People Counting, Heat Map					Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Compression		H.265/H.264					Interface	·
Streaming Capability		3 Streams					Video Interface	1 Port(For adjustment only)
Resolution		1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)/ D1(704×576/704×480) / VGA(640×480)/ CIF(352×288/342×240)					Audio Interface	1/1 channel In/Out
Frame Rate		Main Stream: 1080P(1~50/60fps)					RS485	N/A
		Sub Stream: D1 (1 ~ 50/60fps)					Alarm	2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC
		Third Stream: 1080P(1~50/60fps)					Electrical	
Bit Rate Control		CBR/VBR					Power Supply	DC12V, PoE+ (802.3at)(Class 4)
Bit Rate		H.264: 24~ 10240Kbps H.265: 14~ 6144Kbps					Power Consumption	<13W

Ultra Series | DH-IPC-HFW8231E-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- HFW8231EP-Z	2MP WDR IR Bullet Network Camera,PAL		
2MP camera	DH-IPC- HFW8231EN-Z	2MP WDR IR Bullet Network Camera,NTSC		
ZIVIP CAITIETA	IPC-HFW8231EP-Z	2MP WDR IR Bullet Network Camera,PAL		
	IPC-HFW8231EN-Z	2MP WDR IR Bullet Network Camera,NTSC		
Accessories	PFA121	Junction box		
(optional)	PFA152	Pole Mount		

Accessories

Optional:



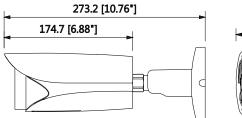


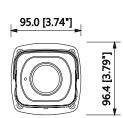
PFA121 Junction box

PFA152 Pole mount

Junction Mount	Pole Mount
PFA121	PFB121 + PFA152

Dimensions (mm/inch)





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