

# DH-IPC-HDBW8331E-Z

3MP WDR IR Dome 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).

#### 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.

- 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+



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.

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## Business intelligent analysis (People counting, Heatmap)

Dahua Camera also supports more advanced intelligent features such as

# Ultra Series | DH-IPC-HDBW8331E-Z

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Video       Certification         Compression       H.265+/H.265/H.264+/H.264       Certification         Streaming Capability       3 Streams       Interfation         Baselution       3 M(2048x1536)/1080P(1920x1080)/ 1.3M(1280x960)/720P(1280x720)/ D1(704x576/704x480)/VGA(640x480)/ CIF(352x288/342x240)       Video Interfation         Frame Rate       Main Stream: 3M(1~50/60fps)       RS485         Sub Stream: D1 (1~50/60fps)       Alarman         Third Stream: 1080P(1~50/60fps)       Electrification					Smart Phor		
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Streaming Capability       3 Streams       Interfation         Streaming Capability       3 Streams       Interfation         Baselution       3 M(2048x1536)/1080P(1920×1080)/ 1.3M(1280x960)/720P(1280x720)/ D1(704×576/704×480)/VGA(640x480)/ CIF(352×288/342x240)       Video Interfation         Main Stream: 3M(1~50/60fps)       Rs485       Rs485         Sub Stream: D1 (1~50/60fps)       Alarman       Electric			H.265+/H.265	5/H.264+/H.26	54		Certificatio
3M(2048x1536)/1080P(1920×1080)/ 1.3M(1280x960)/720P(1280x720)/ D1(704×576/704x480)/VGA(640x480)/ CIF(352×288/342x240)       Video In Audio In RS485         Frame Rate       Sub Stream: 3M(1~50/60fps)       RS485         Third Stream: 1080P(1~50/60fps)       Alarm			Intorface				
Resolution         1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480)/ VGA(640x480)/ CIF(352×288/342x240)         Audio In           Main Stream: 3M(1~50/60fps)         RS485           Sub Stream: D1 (1~50/60fps)         Alarm           Third Stream: 1080P(1~50/60fps)         Electric							
Frame Rate     Sub Stream: D1 (1~50/60fps)     Alarm       Third Stream: 1080P(1~50/60fps)     Electric	Resolution		1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480)/ VGA(640x480)/		Audio Inter		
Third Stream: 1080P(1~50/60fps) Electri	Frame Rate				RS485		
Electri					Alarm		
Electri					Electrica		
Bit Rate Control CBR/VBR Power S			CBR/VBR			Power Supp	
Bit Rate H.264: 24~ 10240Kbps Power C	Bit Rate		H.264: 24~ 10240Kbps H.265: 14~ 9216Kbps		Power Cons		

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	1 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC
Electrical	
Power Supply	DC12V,AC24V, PoE+ (802.3at)(Class 4)
Power Consumption	<18W

## Ultra Series | DH-IPC-HDBW8331E-Z

Environmental	
LINNOITHCITC	

Operating Conditions	-40° C $^{\sim}$ +60° C (-40° F $^{\sim}$ +140° F) / Less than 95% RH
Strorage Conditions	-40° C $^{\sim}$ +60° C (-40° F $^{\sim}$ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	Φ159.1mm×117.9mm(Φ6.26"×4.64")
Net Weight	0.96kg(2.12lb)
Gross Weight	1.75 kg(3.56lb)

#### **Ordering Information**

Туре	Part Number	Description
3MP camera	DH-IPC- HDBW8331EP-Z	3MP WDR IR Dome Network Camera,PAL
	DH-IPC- HDBW8331EN-Z	3MP WDR IR Dome Network Camera,NTSC
	IPC-HDBW8331EP-Z	3MP WDR IR Dome Network Camera,PAL
	IPC-HDBW8331EN-Z	3MP WDR IR Dome Network Camera,NTSC
Accessories (included)	PFA138	Junction Box
Accessories (optional)	PFB302S	Wall mount
	PFB201C	In-ceiling mount
	PFB300C	Ceiling mount
	PFA152	Pole mount
	PFA101	Mount adapter

## Accessories

#### **Optional:**







PFB302S Wall mount

PFA138 Juntion Box

PFB201C In-ceiling mount







PFB300C Ceiling mount

PFA152 Pole mount PFA101 Mount adapter





