

DH-IPC-HDBW8231E-Z5

2MP 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" 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
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 7mm ~35mm motorized lens
- \cdot Max. IR LEDs Length 100m
- · 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.

Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

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.



Business intelligent analysis (People counting, Heatmap) Dahua Camera also supports more advanced intelligent features such as

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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 Syste	m	Progressive				Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shut	ter Speed	Auto/Manual, 1/3~1/100000s				Region of Interest	Off / On (4 Zone)
Minimum Illum	ination	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 100m(328ft)				Defog	Support
IR On/Off Cont	rol	Auto/ Manual				Digital Zoom	16x
IR LEDs		3				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		7~35mm motorized				Compression	G.711a/G.711Mu/AAC/ G.726
Max. Aperture		F1.4				Network	
Angle of View		H: 35°~12°, V:19°~7°				Ethernet	RJ-45 (100/1000Base-T)
Optical Zoom		5x				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		0.3m(0.98ft)				Streaming Method	Unicast / Multicast
DORI	Lens W	Detect	Observe 52m(170ft)	Recognize	Identify	-	
Distance	т	131m(430ft) 427m(1400ft)		26m(85ft) 85m(280ft)	13m(42ft) 42m(140ft)	Max. User Access	10 Users/20 Users
Pan/Tilt/Rotation					. ,	Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rotati	-	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence						Management Software	Smart PSS, DSS, Easy4ip
IVS		Tripwire, Intrusion, Object Abandoned/Missing				Smart Phone	IOS, Android
Advanced Intel	ligent Functions	Face Detection, People Counting, Heat Map				Certifications	
Video Compression		H.265+/H.265/H.264+/H.264				Certifications	CE (EN 60950:2000) UI:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability		3 Streams				Interface	
0.14	,	1080P(1920×1080)/ 1.3M(1280×960)/				Video Interface	1 Port(For adjustment only)
Resolution		720P(1280x720)/ D1(704×576/704×480) / VGA(640×480)/ CIF(352×288/342x240)				Audio Interface	1/1 channel In/Out
		Main Stream: 1080P(1~50/60fps)				RS485	N/A
Frame Rate		Sub Stream: D1 (1 ~ 50/60fps)				Alarm	1 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC
		Third Stream: 1	L080P(1~50/60)fps)		Electrical	
Bit Rate Contro	bl	CBR/VBR				Power Supply	DC12V,AC24V, PoE+ (802.3at)(Class 4)
		H.264: 24~ 10240Kbps H.265: 14~ 6144Kbps					

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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	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	
	DH-IPC- HDBW8231EP-Z5	2MP WDR IR Dome Network Camera,PAL	
2MP camera	DH-IPC- HDBW8231EN-Z5	2MP WDR IR Dome Network Camera,NTSC	
ZIMP camera	IPC- HDBW8231EP-Z5	2MP WDR IR Dome Network Camera,PAL	
	IPC- HDBW8231EN-Z5	2MP WDR IR Dome Network Camera,NTSC	
Accessories (included)	PFA138	Junction Box	
	PFB302S	Wall mount	
	PFB201C	In-ceiling mount	
Accessories (optional)	PFB300C	Ceiling mount	
	PFA152	Pole mount	
	PFA101	Mount adapter	

Accessories

Optional:







PFB302S Wall mount

PFA138 Juntion Box

PFB201C In-ceiling mount



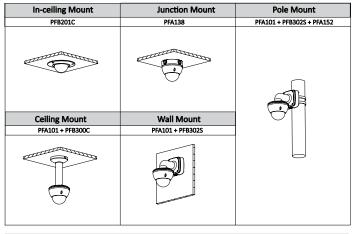




PFB300C Ceiling mount

Pole mount

PFA101 Mount adapter



PFA152

