

DH-IPC-HDBW8232E-ZE

2MP Starlight IR Dome Network Camera



System Overview

Ultra series adopts high performance DSP and Sony advanced image sensor technology, which can provide excellent image effects for users. With Dahua advanced software algorithm, the series is able to support people counting and heat map which brings extra business analysis value for customers. In addition, IP67, IK10 and heater compliance ensure the series can be applied in a harsher environment.

Functions

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.002lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide dynamic range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

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

- 1/1.9" 2Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 4.1mm ~16.4mm zoom lens
- · 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)

SmartScene Adaptive (SSA) is an intelligent image technology, developed by Dahua that automatically evaluates and compensates for changes in the luminance of a scene. SSA automatically regulates the exposure parameters to improve image quality in a backlit scene, especially in scenes with traffic lights or headlights.

Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

Environmental & Protection

With a temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting $\pm 25\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), The camera complies with an IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.)



Technical Specification					Bit Rate Control	CBR/VBR	
Camera			Bit Rate	H.264: 24~ 10240Kbps H.265: 14~ 6144Kbps			
Image Sensor		1/1.9" 2Megapixel progressive scan CMOS				Day/Night	Auto(ICR) / Color / B/W
Effective Pixels		1920(H)x1080(V)				. •	
RAM/ROM		1024MB/128MB				BLC Mode	BLC / HLC / WDR(120dB)/ SSA
Scanning System		Progressive				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Electronic Shutte	r Speed	Auto/Manual, 1/3~1/100000s				Gain Control	Auto/Manual
Minimum Illumination		0.002Lux/F1.53 (Color,1/3s,30IRE) 0.01Lux/F1.53 (Color,1/30s,30IRE) 0Lux/F1.53(IR on)				Noise Reduction	3D DNR
						Motion Detection	Off / On (4 Zone, Rectangle)
S/N Ratio		More than 50dB				Region of Interest	Off / On (4 Zone)
IR Distance		Distance up to 50m(164ft)				Electronic Image Stabilization(EIS)	Support
IR On/Off Control		Auto/ Manual				Smart IR	Support
IR LEDs		3				Defog	Support
Lens						Digital Zoom	16x
Lens Type		Motorized /Auto Iris(HALL)				Flip	0°/90°/180°/270°
Mount Type		Board-in				Mirror	Off/On
Focal Length		4.1~16.4mm motorized				Privacy Masking	Off / On (4 Area, Rectangle)
Max. Aperture		F1.53				Audio	
Angle of View		H: 104°~33° V:57°~18°				Compression	G.711a/G.711Mu/AAC/ G.726
Optical Zoom		4x				Network	
Focus Control		Motorized				Ethernet	RJ-45 (100/1000Base-T)
Predictive Focus Algorithm(PFA)		Support				Ethernet	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;
Close Focus Distance		1m(3.28ft)				Protocol	FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS
DORI	Lens	Detect	Observe	Recognize	Identify	Interoperability	ONVIF Profile S&G, API
Distance	W T	57m(187ft) 137m(449ft)	23m(75ft) 55m(180ft)	11m(36ft) 27m(89ft)	6m(20ft) 14m(49ft)	Streaming Method	Unicast / Multicast
Pan/Tilt/Rota	ation					Max. User Access	10 Users/20 Users
Pan/Tilt/Rotation	n Range	Pan:0°~355°;	Tilt:0°~65°; Ro	otation:0°~355	•		NAS
Intelligence						Edge Storage	Local PC for instant recording Mirco SD card 128GB
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal				Web Viewer	IE, Chrome, Firefox, Safari
Event migger		Access,Stora		r address con	ilict, illegal	Management Software	Smart PSS, DSS, DMSS
IVS		Tripwire, Intrusion, Object Abandoned/Missing				Smart Phone	IOS, Android
Advanced Intelligent Functions		Face Detection, People Counting, Heat Map				Certifications	
Video						Cortifications	CE (EN 60950:2000)
Compression Smart Codec				4H/MJPEG(Su	ib Stream)	Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability		Support H.265+/H.264+ 3 Streams				Interface	
Resolution		1080P(1920×1080)/ 1.3M(1280x960)/			,	Video Interface	1 Port(For adjustment only)
		720P(1280x720)/ D1(704×576/704x480) / VGA(640x480)/ 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 ~ 50/60	fps)		Alarm	1 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC
		Third Stream	: 1080P(1~50)	/60fps)			12012 5, 5,5,000

Ultra Series | DH-IPC-HDBW8232E-ZE

Electrical

Power Supply	DC12V,AC24V, PoE+ (802.3at)(Class 4)		
Power Consumption	<18W		
Environmental			
Operating Conditions	-40° C \sim +60° C (-40° F \sim +140° F) / Less than 95% RH		
Storage 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			
	DH-IPC- HDBW8232EP-ZE	2MP Starlight IR Dome Network Camera,PAL			
2MP camera	DH-IPC- HDBW8232EN-ZE	2MP Starlight IR Dome Network Camera,NTSC			
Zivir Calliela	IPC-HDBW8232EP- ZE	2MP Starlight IR Dome Network Camera,PAL			
	IPC-HDBW8232EN- ZE	2MP Starlight IR Dome Network Camera,NTSC			
Accessories (included)	PFA138	Junction Box			
	PFB210W	Wall mount			
	PFB201C	In-ceiling mount			
Accessories	PFB300C	Ceiling mount			
(optional)	PFA152-E	Pole mount			
	PFA101	Mount adapter			
	LR1002	ePoE Over Coax Converter			

Accessories

Optional:









PFB201C In-ceiling Mount

PFA138 Juction Mount

PFB210W Wall Mount

PFA152-E Pole Mount



Ceiling Mount





Mount adapter



LR1002 ePoE Over Coax Converter

In-ceiling Mount	Junction Mount	Pole Mount		
PFB201C	PFA138	PFB210W+PFA152-E		
6				
Ceiling Mount	Wall Mount			
PFA101+PFB300C	PFB210W (Indoor)	PFB210W (Outdoor)		

Dimensions (mm/inch)





