

DH-IPC-HDBW81230E-ZE

12MP 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.

4K technology

4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

E-PTZ function

E- PTZ (electronic-PTZ (pan / tilt / zoom function) . Is a virtual technology . Through E- PTZ function can be achieved on the local area pan, zoom and other functions . Mostly It appeared in Megapixel or more cameras.

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

- 1/1.7" 12Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 20fps@12M(4000×3000),25/30fps@4K(3840×2160)
- · DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot 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+













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 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 Spe	ecification						Main Stream: 12M(1~20fps)/ 4K(1~25/30fps)
Camera						Frame Rate	Sub Stream: D1 (1 ~ 25/30fps)
Image Sensor		1/1.7" 12Megapixel progressive scan CMOS					Third Stream: 1080P(1~25/30fps)
Effective Pixels		4000(H)x3000(V)				Bit Rate Control	CBR/VBR
RAM/ROM		1024MB/128MB				Bit Rate	H.264: 24~ 16384Kbps
Scanning System		Progressive				Day/Night	Auto(ICR) / Color / B/W
Electronic Shutte	r Speed	Auto/Manual, 1/3~1/100000s				BLC Mode	BLC / HLC / DWDR/ SSA
			3(Color,1/3s,30I			White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Minimum Illumination		0.1Lux/F1.53(Color,1/30s,30IRE) 0Lux/F1.53(IR on)				Gain Control	Auto/Manual
S/N Ratio		More than 50	dB			Noise Reduction	3D DNR
IR Distance		Distance up to	o 50m(164ft)				
IR On/Off Control	I	Auto/ Manual				Motion Detection	Off / On (4 Zone, Rectangle)
						Region of Interest	Off / On (4 Zone)
IR LEDs Lens		3				Electronic Image Stabilization(EIS)	Support
Lens Type		Motorized /A	uto Iris(HALL)			Smart IR	Support
Mount Type		Board-in				Defog	Support
Focal Length		4.1~16.4mm motorized				Digital Zoom	16x
Max. Aperture		F1.53				Flip	0°/90°/180°/270°
Angle of View		H: 105°~35°, V:77°~26°(12MP,4:3) H: 101°~32°, V:57°~18°(8MP,16:9)				Mirror	Off / On
Optical Zoom		4x				Privacy Masking	Off / On (4 Area, Rectangle)
Focus Control		Motorized				Audio	
Predictive Focus Algorithm(PFA)		Support				Compression	G.711a/G.711Mu/AAC/ G.726
Close Focus Dista	nce	1m(3.28ft)				Network	
	Lens	Detect	Observe	Recognize	Identify	Ethernet	RJ-45 (100/1000Base-T)
DORI Distance	W	115m(377ft)	46m(151ft)	23m(75ft)	11m(36ft)		HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS
	Т	227m(909ft)	111m(364ft)	55m(180ft)	28m(92ft)	Protocol	
Pan/Tilt/Rota	tion					Interoperability	ONVIF Profile S&G, API
Pan/Tilt/Rotation	n Range	Pan:0°~355°;	Tilt:0°~65°; Rota	ation:0°~355°		Streaming Method	Unicast / Multicast
Intelligence						Max. User Access	10 Users/20 Users
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access,Storage anomaly				Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
IVS		Tripwire, Intrusion, Object Abandoned/Missing				Web Viewer	IE, Chrome, Firefox, Safari
Advanced Intelligent Functions		Face Detection, People Counting, Heat Map				Management Software	Smart PSS, DSS, DMSS
Video						Smart Phone	IOS, Android
Compression		H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream)				Certifications	
Smart Codec		Support H.265+/H.264+				Certifications	CE (EN 60950:2000)
Streaming Capability		3 Streams					UL:UL60950-1 FCC: FCC Part 15 Subpart B
Resolution		12M(4000x3000)/ 4K(3840x2160)/6M(3072x2048)/ 5M(2560x1920)/ 3M(2048x1536)/ 3M(2304x1296)/				Interface	
		1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480) / VGA(640x480)/ CIF(352×288/342x240)			(120UX/2U)/	Video Interface	1 Port(For adjustment only)
		CII (332^200) 342A240)				Audio Interface	1/1 channel In/Out

Environmental

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

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- HDBW81230EP-ZE	12MP IR Dome Network Camera,PAL		
12MD camora	DH-IPC- HDBW81230EN-ZE	12MP IR Dome Network Camera,NTSC		
12MP camera	IPC-HDBW81230EP- ZE	12MP IR Dome Network Camera,PAL		
	IPC-HDBW81230EN- ZE	12MP 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







Mount adapter

PFA101



LR1002 ePoE Over Coax Converter

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

Dimensions (mm/inch)





