

# DH-IPC-HF81230E

12MP Box Network Camera



- · 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
- Auto back focus(ABF)
- · Micro SD memory, 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**

#### 4K technology

 $4 \mbox{K}$  technology as a revolutionary breakthrough in image, which enhance the expressive image of essence, allowing users to experience the best picture quality brought about by the visual feast . For the purposes of  $4 \mbox{K}$  surveillance with four times the  $1080 \mbox{P}$  resolution, presented to the user with more details . Under the same scenario by raising the pixels , reduce the camera cost.

#### 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.

#### 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



Technical Specification		BLC Mode	BLC / HLC / DWDR/ SSA
Camera		White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Image Sensor	1/1.7" 12Megapixel progressive scan CMOS	Gain Control	Auto/Manual
Effective Pixels	4000(H)x3000(V)	Noise Reduction	3D DNR
RAM/ROM	1024MB/128MB	Motion Detetion	Off / On (4 Zone, Rectangle)
Scanning System	Progressive	Region of Interest	Off / On (4 Zone)
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s	Electronic Image Stabilization	Support
Minimum Illumination	0.005Lux/F1.2(Color,1/3s,30IRE) 0.05Lux/F1.2(Color,1/30s,30IRE) 0.003Lux/F1.2(B/W,1/3s,30IRE) 0.03Lux/F1.2(B/W,1/30s,30IRE)	(EIS) Smart IR	N/A
		Defog	Support
S/N Ratio	More than 50dB	Digital Zoom	16x
R Distance	N/A	Flip	0°/90°/180°/270°
IR On/Off Control	N/A	Mirror	Off / On
IR LEDs	N/A	Privacy Masking	Off / On (4 Area, Rectangle)
Lens		Audio	
Lens Type	N/A	Compression	G.711a/ G.711Mu/ AAC/ G.726
Mount Type	c/cs	Network	
Focal Length	N/A	Ethernet	RJ-45 (100/1000Base-T)
Max. Aperture Angle of View	N/A	Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;F DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;N
-		Laborato analistita	Bonjour;802.1x;Multicast;ICMP;IGMP;SNMP
Optical Zoom	N/A	Interoperability	ONVIF, PSIA, CGI
Focus Control	N/A	Streaming Method	Unicast / Multicast
Close Focus Distance	N/A	Max. User Access	10 Users/20 Users
Pan/Tilt/Rotation Pan/Tilt/Rotation Range	N/A	Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Intelligence		Web Viewer	IE, Chrome, Firefox, Safari
VS	Tripwire, Intrusion, Object Abandoned/Missing	Management Software	Smart PSS, DSS, Easy4ip
Advanced Intelligent Functions	Face Detection, People Counting, Heat Map	Smart Phone	IOS, Android
Video		Certifications	
Compression	H.265+/H.265/H.264+/H.264	Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability	3 Streams	Interface	Tec. Tec Part 15 Subpart B
	12M(4000x3000)/ 4K(3840x2160)/ 6M(3072x2048)/ 5M(2560x1920)/	Video Interface	1 port(BNC,1Vp-p,75Ω)
Resolution	3M(2048x1536)/ 3M(2304x1296)/ 1080P(1920×1080)/ 1.3M(1280x960)/	Audio Interface	1/1 channel In/Out, 1 Built-in Mic
	720P(1280x720)/ D1(704×576/704x480) / VGA(640x480)/ CIF(352×288/342x240)	RS485	
	Main Stream: 12M(1~20fps)/ 4K(1~25/30fps)	n3403	1 port
Frame Rate	Sub Stream: D1 (1 ~ 25/30fps)	Alarm	2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC
	Third Stream: 1080P(1~25/30fps)	Electrical	
Bit Rate Control	CBR/VBR	Power Supply	DC12V, AC24V, PoE(802.3af)(Class 0)
Bit Rate	H.264: 24~ 16384Kbps H.265: 14~ 9984Kbps	Power Consumption	<8W
Day/Night	Auto(ICR) / Color / B/W		

# Ultra Series | DH-IPC-HF81230E

#### Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	N/A
Vandal Resistance	N/A

#### Construction

Casing	Metal
Dimensions	135.4mm×74.4mm×65.5mm (5.33"×2.93"×2.58")
Net Weight	0.66Kg (1.46lb)
Gross Weight	0.77Kg (1.7lb)

Ordering Information				
Туре	Part Number	Description		
12MP camera	DH-IPC-HF81230EP	12MP Box Network Camera, PAL		
	DH-IPC-HF81230EN	12MP Box Network Camera, NTSC		
	IPC-HF81230EP	12MP Box Network Camera, PAL		
	IPC-HF81230EN	12MP Box Network Camera, NTSC		
Accessories (optional)	PFB110W	Wall mount		
	PFB121W	Wall mount		

## Accessories

## **Optional:**





PFB110W Wall mount

PFB121W Wall mount

Wall Mount	Wall/Ceiling/Plane Mount
PFB121W	PFB110W

## Dimensions (mm/inch)





