

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
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- Auto back focus(ABF)
- · Micro SD memory, 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



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

4K 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 4K surveillance with four times the 1080P resolution, presented to the user with more details . Under the same scenario by raising the pixels , reduce the camera cost.

E-PTZ function

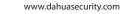
 $E\-$ PTZ (electronic-PTZ (pan / tilt / zoom function) . Is a virtual technology . Through $E\-$ PTZ function can be achieved on the local area pan, zoom and other functions . Mostly It appeared in Megapixel or more cameras.

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



Ultra Series | DH-IPC-HF81230E

Technical Specification

Camera

Camera		
Image Sensor	1/1.7" 12Megapixel progressive scan CMOS	
Effective Pixels	4000(H)x3000(V)	
RAM/ROM	1024MB/128MB	
Scanning System	Progressive	
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s	
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)	
S/N Ratio	More than 50dB	
IR Distance	N/A	
IR On/Off Control	N/A	
IR LEDs	N/A	
Lens		
Lens Type	N/A	
Mount Type	C/CS	
Focal Length	N/A	
Max. Aperture	N/A	
Angle of View	N/A	
Optical Zoom	N/A	
Focus Control	N/A	
Close Focus Distance	N/A	
Pan/Tilt/Rotation		
Pan/Tilt/Rotation Range	N/A	
Intelligence		
IVS	Tripwire, Intrusion, Object Abandoned/Missing	
Advanced Intelligent Functions	Face Detection, People Counting, Heat Map	
Video		
Compression	H.265+/H.265/H.264+/H.264	
Streaming Capability	3 Streams	
Resolution	12M(4000x3000)/ 4K(3840x2160)/ 6M(3072x2048)/ 5M(2560x1920)/ 3M(2048x1536)/ 3M(2304x1296)/ 1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480) / VGA(640x480)/ CIF(352×288/342x240)	
Frame Rate	Main Stream: 12M(1~20fps)/ 4K(1~25/30fps)	
	Sub Stream: D1 (1 ~ 25/30fps)	
	Third Stream: 1080P(1~25/30fps)	
Bit Rate Control	CBR/VBR	
Bit Rate	H.264: 24~ 16384Kbps H.265: 14~ 9984Kbps	
Day/Night	Auto(ICR) / Color / B/W	

BLC Mode	BLC / HLC / DWDR/ 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	N/A	
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(BNC,1Vp-p,75Ω)	
Audio Interface	1/1 channel In/Out, 1 Built-in Mic	
RS485	1 port	
Alarm	2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC	
Electrical		
Power Supply	DC12V, AC24V, PoE(802.3af)(Class 0)	
Power Consumption	<8W	

IDM /

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Environmental	
Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +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

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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

