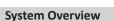


DH-IPC-HFW81230E-Z

12MP IR Bullet Network Camera



- \cdot 1/1.7" 12Megapixel progressive scan 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 motorized lens
- · Max. IR LEDs Length 50m
- · Micro SD memory, IP67, IK10, PoE+



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









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

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.



Technical Sp	ecification					Day/Night	Auto(ICR) / Color / B/W
Camera					BLC Mode	BLC/HLC/DWDR/SSA	
Image Sensor		1/1.7" 12Megapixel progressive scan CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		4000(H)x3000(V)				Gain Control	Auto/Manual
RAM/ROM		1024MB/128MB				Noise Reduction	3D DNR
·		Progressive					Off / On (4 Zone, Rectangle)
Scanning System Floctronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Motion Detetion	
Electronic Shutter Speed		0.01Lux/F1.53(Color,1/3s,30IRE)				Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.1Lux/F1.53(Color,1/30s,30IRE) 0Lux/F1.53(IR on)				Electronic Image Stabilization (EIS)	Support
S/N Ratio		More than 50	ldB			Smart IR	Support
IR Distance		Distance up to 50m(164ft)				Defog	Support
IR On/Off Contro	ol	Auto/ Manual				Digital Zoom	16x
IR LEDs		4				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		4.1~16.4mm motorized				Compression	G.711a/G.711Mu/AAC/ G.726
Max. Aperture		F1.53				Network	
Angle of View		H: 85°~35°, V:63°~26°				Ethernet	RJ-45 (100/1000Base-T)
Optical Zoom		4x				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 Dista		0.5m(1.64ft)					
DORI	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
Distance	W	115m(377ft)	46m(151ft)	23m(75ft)	11m(36ft)	Max. User Access	10 Users/20 Users
Pan/Tilt/Rots	T	227m(909ft)	111m(364ft)	55m(180ft)	28m(92ft)	Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rotation Pan/Tilt/Rotation Range		Danio 200° Tile o 200° Datation of 200°				Web Viewer	IE, Chrome, Firefox, Safari
, ,	ii Nalige	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°				Management Software	Smart PSS, DSS, Easy4ip
Intelligence		.		1/24		Smart Phone	IOS, Android
IVS		Tripwire, Intrusion, Object Abandoned/Missing				Certifications	
Advanced Intelligent Functions Face De Video			in, People Coun	ting, Heat Mar)	Certifications	CE (EN 60950:2000) UL:UL60950-1
Compression		H.265+/H.265/H.264+/H.264					FCC: FCC Part 15 Subpart B
Streaming Capability		3 Streams				Interface	
Resolution		12M(4000x3000)/ 4K(3840x2160)/ 6M(3072x2048)/				Video Interface	1 Port(For adjustment only)
		5M(2560x1920)/ 3M(2048x1536)/ 3M(2304x1296)/ 1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480) / VGA(640x480)/				Audio Interface RS485	1/1 channel In/Out N/A
		CIF(352×288/		AV/1~25/206	c)		2 channel In: 5mA 5VDC
Frame Rate		Main Stream: 12M(1~20fps)/ 4K(1~25/30fps) Sub Stream: D1 (1 ~ 25/30fps)				Alarm	1 channel Out: 1A 30VDC / 0.5A 50VAC
. rame nate			1080P(1~25/30			Electrical	
Bit Rate Control		CBR/VBR	, , , , , ,	. ,		Power Supply	DC12V, PoE+(802.3at)(Class 4)
Bit Rate		H.264: 24~ 16384Kbps H.265: 14~ 9984Kbps				Power Consumption	<13W

Ultra Series | DH-IPC-HFW81230E-Z

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	273.2mm×95.0mm×96.4mm (10.76"×3.74"×3.79")
Net Weight	1.12Kg (2.47lb)
Gross Weight	1.52Kg (3.35lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HFW81230EP-Z	12MP IR Bullet Network Camera,PAL			
12MP camera	DH-IPC- HFW81230EN-Z	12MP IR Bullet Network Camera,NTSC			
12IMP Camera	IPC- HFW81230EP-Z	12MP IR Bullet Network Camera,PAL			
	IPC- HFW81230EN-Z	12MP IR Bullet Network Camera,NTSC			
Accessories	PFA121	Junction box			
(optional)	PFA152	Pole Mount			

Accessories

Optional:





PFA121 Junction box

PFA152 Pole mount

Junction Mount	Pole Mount
PFA121	PFB121 + PFA152

Dimensions (mm/inch)

