

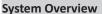
DH-IPC-HF8231F-E

2MP WDR Box Network Camera



- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@1080P(1920×1080)
- · WDR(140dB), 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





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.

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 0.003lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Ultra WDR

Standard WDR/HDR camera can provide 120dB dynamic range, However, for some scenes with wider contrast range, 120dB is slightly insufficient. By adopting the latest technology, Dahua Cameras can provide an amazing dynamic range up to140dB.

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.

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.



Technical Specification		White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Camera		Gain Control	Auto/Manual
Image Sensor	1/2.8" 2Megapixel progressive scan CMOS	Noise Reduction	3D DNR
Effective Pixels	1920(H)×1080(V)	Motion Detection	Off / On (4 Zone, Rectangle)
RAM/ROM	1024MB/128MB	Region of Interest	Off / On (4 Zone)
Scanning System	Progressive	Electronic Image Stabilization	
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s	(EIS)	Support
Minimum Illumination	0.003Lux/F1.2(Color,1/3s,30IRE) 0.03Lux/F1.2(Color,1/30s,30IRE) 0.0009Lux/F1.2(B/W,1/3s,30IRE) 0.01Lux/F1.2(B/W,1/30s,30IRE)	Smart IR	N/A
		Defog	Support
S/N Ratio	More than 50dB	Digital Zoom	16x
IR 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	N/A		HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;
Angle of View	N/A	Protocol	FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS
Optical Zoom	N/A	Interoperability	ONVIF Profile S&G, API
Focus Control	N/A	Streaming Method	Unicast / Multicast
Close Focus Distance	N/A	Max. User Access	10 Users/20 Users
Pan/Tilt/Rotation		Max. Osci /icccss	NAS
Pan/Tilt/Rotation Range	N/A	Edge Storage	Local PC for instant recording Mirco SD card 128GB
Intelligence		Web Viewer	IE, Chrome, Firefox, Safari
Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly	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		Cautifications	CE (EN 60950:2000)
Compression	H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream)	Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Smart Codec	Support H.265+/H.264+	Interface	
Streaming Capability	3 Streams	Video Interface	1 port(BNC,1Vp-p,75Ω)
Resolution	1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480)/	Audio Interface	2/1 channel In/Out, 1 Built-in Mic
	VGA(640x480)/ CIF(352×288/342x240)	RS485	1 port
Frame Rate	Main Stream: 1080P(1~50/60fps)	Alarm	2 channel In: 5mA 5VDC
	Sub Stream: D1 (1 ~ 50/60fps) Third Stream: 1080P(1~50/60fps)		2 channel Out: 1A 30VDC / 0.5A 50VAC
Bit Rate Control	CBR/VBR	Electrical	
Bit Rate	H.264: 24~ 10240Kbps	Power Supply	DC12V, AC24V, PoE(802.3af)(Class 0)
Day/Night	H.265: 14~ 6144Kbps Auto(ICR) / Color / B/W	Power Consumption	<5.5W
BLC Mode	BLC / HLC / WDR(140dB)/ SSA	Power Out	165mA 12VDC

Ultra Series | DH-IPC-HF8231F-E

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	161.6mm×85.5mm×74.0mm (6.36"×3.37"×2.91")
Net Weight	0.72Kg (1.59lb)
Gross Weight	0.92Kg (2.03lb)

Ordering Information				
Туре	Part Number	Description		
2MP camera	DH-IPC-HF8231FP-E	2MP WDR Box Network Camera, PAL		
	DH-IPC-HF8231FN-E	2MP WDR Box Network Camera, NTSC		
	IPC-HF8231FP-E	2MP WDR Box Network Camera, PAL		
	IPC-HF8231FN-E	2MP WDR Box Network Camera, NTSC		
Accessories (optional)	PFB110W	Wall mount		
	PFB121W	Wall mount		
	PLZ1040-D	2.7~12mm Lens		
	PFL0550-E6D	5~50mm Lens		
	PFH610 Series	Housings		

Accessories

Optional:







PFB110W Wall mount

W PFB121W unt Wall mount

PLZ1040-D





PFL0550-E6D

PFH610 Series

Wall Mount	Wall/Ceiling/Plane Mount
PFB121W	PFB110W

Dimensions (mm/inch)

