

DH-IPC-HF8331F-E

3MP WDR Box Network Camera



- · 1/2.8" 3Megapixel progressive scan STARVIS™ CMOS
- · H.265/H.264 triple-stream encoding
- ·50/60fps@3M(2048×1536)
- · 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













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.

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 0.002lux. 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 to 140dB.

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 an intelligent image technology, developed by Dahua that automatically evaluates and compensates for changes in the luminance of a scene. SSA automatically regulates the exposure parameters to improve image quality in a backlit scene, especially in scenes with traffic lights or headlights.

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		BLC Mode	BLC / HLC / WDR(140dB)/ SSA
Camera		White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Image Sensor	1/2.8" 3Megapixel progressive scan CMOS	Gain Control	Auto/Manual
Effective Pixels	2048(H)x1536(V)	Noise Reduction	3D DNR
RAM/ROM	1024MB/128MB	Motion Detection	Off / On (4 Zone, Rectangle)
Scanning System	Progressive		Off / On (4 Zone)
Minimum Illumination	0.002Lux/F1.2(Color,1/3s,30IRE) 0.02Lux/F1.2(Color,1/30s,30IRE) 0.001Lux/F1.2(B/W,1/3s,30IRE) 0.01Lux/F1.2(B/W,1/30s,30IRE)	Region of Interest Electronic Image Stabilization (EIS)	Support Support
S/N Ratio	More than 50dB	Smart IR	N/A
IR Distance	N/A	Defog	Support
IR On/Off Control	N/A	Digital Zoom	16x
IR LEDs	N/A	Flip	0°/90°/180°/270°
Lens		Mirror	Off / On
Lens Type	N/A	Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type	c/cs	Audio	
Focal Length	N/A	Compression	G.711a/ G.711Mu/ AAC/ G.726
Max. Aperture	N/A	Network	
Angle of View	N/A	Ethernet	RJ-45 (100/1000Base-T)
Optical Zoom Focus Control	N/A	Protocol	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
Close Focus Distance	N/A	Interoperability	ONVIF Profile S&G, API
Pan/Tilt/Rotation		Streaming Method	Unicast / Multicast
Pan/Tilt/Rotation Range	N/A	Max. User Access	10 Users/20 Users
Intelligence 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	Table Bettering, Teople Boarding, Teaching	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) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability	3 Streams	Interface	rec. rec rait 13 Subpart B
	3M(2048x1536)/ 1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704x576/704x480)/ VGA(640x480)/ CIF(352×288/342x240)	Video Interface	1 port(BNC,1Vp-p,75Ω)
Resolution		Audio Interface	2/1 channel In/Out, 1 Built-in Mic
Frame Rate	Main Stream: 3M(1~50/60fps)	RS485	1 port
	Sub Stream: D1 (1 ~ 50/60fps)	Alarm	2 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC
	Third Stream: 1080P(1~50/60fps)	Electrical	
Bit Rate Control	CBR/VBR	Power Supply	DC12V, AC24V, PoE(802.3af)(Class 0)
Bit Rate	H.264: 24~ 10240Kbps H.265: 14~ 9216Kbps	Power Consumption	<6.6W
Day/Night	Auto(ICR) / Color / B/W	Power Out	165mA 12VDC

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Storage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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	
3MP camera	DH-IPC-HF8331FP-E	3MP WDR Box Network Camera, PAL	
	DH-IPC-HF8331FN-E	3MP WDR Box Network Camera, NTSC	
	IPC-HF8331FP-E	3MP WDR Box Network Camera, PAL	
	IPC-HF8331FN-E	3MP 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

V PFB121W nt Wall mount

PLZ1040-D





PFL0550-E6D

PFH610 Series

Wall Mount	Wall/Ceiling/Plane Mount
PFB121W	PFB110W

Dimensions (mm/inch)





