

# DH-IPC-HF8331F

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



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**

#### Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.005 lux).

#### 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.

## 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

# Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.



BLC Mode

Technical Specification		White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Camera		Gain Control	Auto/Manual
Image Sensor	1/2.8" 3Megapixel progressive scan CMOS	Noise Reduction	3D DNR
Effective Pixels	2048(H)x1536(V)	Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM	1024MB/128MB	Region of Interest	Off / On (4 Zone)
Scanning System	Progressive	Electronic Image Stabilization (EIS)	Support
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)	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	·	3.711a, 3.711ma, 7.11a, 3.72a
Focal Length	N/A	Network	DI 45 (400)(40000 T)
Max. Aperture	N/A	Ethernet	RJ-45 (100/1000Base-T)  HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP;
Angle of View	N/A	Protocol	DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP; 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		Edea Charana	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
IVS	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
Streaming Capability	3 Streams		FCC: FCC Part 15 Subpart B
	3M(2048x1536)/ 1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/	Interface	
Resolution	D1(704×576/704x480)/ VGA(640x480)/ CIF(352×288/342x240)	Video Interface	1 port(BNC,1Vp-p,75Ω)
	Main Stream: 3M(1~50/60fps)	Audio Interface	2/1 channel In/Out, 1 Built-in Mic
Frame Rate	Sub Stream: D1 (1 ~ 50/60fps)	RS485	1 port
	Third Stream: 1080P(1~50/60fps)	Alarm	2 channel In: 5mA 5VDC 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)
	H.265: 14~ 9216Kbps	Power Consumption	<6.6W
Day/Night	Auto(ICR) / Color / B/W		
DLC Modo	DIC / LIC / M/DD/1404D\/ CCA		

BLC / HLC / WDR(140dB)/ SSA

# Ultra Series | DH-IPC-HF8331F

# 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		
3MP camera	DH-IPC-HF8331FP	3MP WDR Box Network Camera, PAL		
	DH-IPC-HF8331FN	3MP WDR Box Network Camera, NTSC		
	IPC-HF8331FP	3MP WDR Box Network Camera, PAL		
	IPC-HF8331FN	3MP WDR 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)





