

# DH-IPC-HFW4831E-SE

8MP WDR IR Mini Bullet Network Camera





## **System Overview**

With upgraded H.265 encoding technology, Eco-savvy series brings high efficient video compression capability. It can save bandwidth and storage. Meanwhile, the series features starlight, smart IR technology and intelligent image analysis techniques. This series supports reminder function, meanwhile fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

#### **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.

#### Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

## Intelligent Video analysis (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a

- · 1/2.5" 8Megapixel progressive scan STARVIS™ CMOS
- · H. 265&H.264 triple-stream encoding
- · 15fps@4K(3840×2160),25/30fps@3M(2304×1296)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & **DMSS**
- · 2.8mm fixed lens (4mm optional)
- · Max. IR LEDs Length 40m
- · Micro SD Memory, IP67, PoE











warning message to inspect the camera.

#### Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity. An optional heater module extends the multi-sensor camera's temperature range to-40° C to +60° C (-40° F to +140° F), allowing the camera to operate in the harshest environments.

#### Protection (IP67, wide voltage)

The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67), the camera is the choice for installation in even the most unforgiving environments.

#### Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec 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 H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.



Technical S	pecification				
Camera					
Image Sensor		1/2.5" 8Megapixel progressive scan CMOS			
Effective Pixels		3840(H)x2160(V)			
RAM/ROM		512MB/32MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s			
Minimum Illumination		0.06Lux/F1.6( Color,1/3s,30IRE) 0.3Lux/F1.6( Color,1/30s,30IRE) 0Lux/F1.6(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 40m (131ft)			
IR On/Off Conti	rol	Auto/ Manual			
IR LEDs		2			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8mm (4.0mm optional)			
Max. Aperture		F1.6 (F1.6)			
Angle of View		H:112° (88°), V:69° (48°)			
Optical Zoom		N/A			
Focus Control		Fixed			
Close Focus Dis	tance	0.9m(1.7m)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	69m(226ft)	28m(92ft)	14m(46ft)	7m(23ft)
	4.0 mm	89m(292ft)	36m(118ft)	18m(59ft)	9m(30ft)
Pan/Tilt/Rot	tation				
Pan/Tilt/Rotati	on Range	Pan:0°~360°	; Tilt:0°~90°; F	Rotation:0°~3	60°
Intelligence					
IVS		Tripwire, Int	rusion, Objec	t Abandoned/	'Missing
Advanced Intel	ligent Functions	Face Detect	ion		
Video					
Compression		H.265+/H.26	65/H.264+/H.2	264	
Streaming Capability		3 Streams			
Resolution		4K(3840×2160)/6M(3072×2048)/5M(2560×1920)/ 3M(2048×1536)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480) / VGA(640×480)/CIF(352×288/352×240)			
		Main Stream: 4K(1~15fps)/3M(1~25/30fps)			
Frame Rate		Sub Stream: D1(1~25/30fps)			
		Third Stream: 1080P(1~25/30fps)			
Bit Rate Control		CBR/VBR			
Bit Rate		H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps			
Day/Night		Auto(ICR) / Color / B/W			
BLC Mode			WDR(120dB)		

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)	N/A	
Smart IR	Support	
Defog	N/A	
Digital Zoom	16x	
Flip	0°/90°/180°/270°	
Mirror	Off / On	
Privacy Masking	Off / On (4 Area, Rectangle)	
Audio		
Compression	N/A	
Network		
Ethernet	RJ-45 (10/100Base-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	N/A	
Audio Interface	N/A	
RS485	N/A	
Alarm	N/A	
Electrical		
Power Supply	DC12V, PoE (802.3af)(Class 0)	
Power Consumption	<6.5W	

## Eco Savvy 3.0 | DH-IPC-HFW4831E-SE

## Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	N/A

#### Construction

Casing	Metal
Dimensions	180mm×70mm×70mm (7.09"×2.76"×2.76")
Net Weight	0.41kg (0.91lb)
Gross Weight	0.53 kg (1.17lb)

Ordering Information				
Туре	Part Number	Description		
8MP camera	DH-IPC- HFW4831EP-SE- 0280B	8MP IR Mini Bullet Network Camera, WDR, PAL		
	DH-IPC- HFW4831EN-SE- 0280B	8MP IR Mini Bullet Network Camera, WDR,NTSC		
	IPC-HFW4831EP-SE- 0280B	8MP IR Mini Bullet Network Camera, WDR,PAL		
	IPC-HFW4831EN-SE- 0280B	8MP IR Mini Bullet Network Camera, WDR,NTSC		
	DH-IPC- HFW4831EP-SE- 0400B	8MP IR Mini Bullet Network Camera, WDR, PAL		
	DH-IPC- HFW4831EN-SE- 0400B	8MP IR Mini Bullet Network Camera, WDR,NTSC		
	IPC-HFW4831EP-SE- 0400B	8MP IR Mini Bullet Network Camera, WDR,PAL		
	IPC-HFW4831EN-SE- 0400B	8MP IR Mini Bullet Network Camera, WDR,NTSC		
Accessories (optional)	PFA121	Junction box		
	PFA152-E	Pole Mount		
	LR1002	ePoE Over Coax Converter		

## Accessories

## **Optional:**







PFA121 Junction Box

PFA152-E Pole Mount

LR1002 ePoE Over Coax Converter

Junction Mount	Pole Mount	
PFA121	PFB121 + PFA152-E	

## Dimensions (mm/inch)



