

DH-IPC-HFW4831T-ASE

8MP WDR IR Mini Bullet Network Camera



- \cdot 1/2.5" 8Megapixel progressive scan STARVISTM 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 80m
- · Micro SD Memory, IP67, IK10, PoE













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

warning message to inspect the camera.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30 $^{\circ}$ C to +60 $^{\circ}$ C (-22 $^{\circ}$ F to +140 $^{\circ}$ F) with 95% humidity, allowing the camera to operate in the harshest environments.

Protection(IP67, IK10, wide voltage)

The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 4KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests(IK10), 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.



Tochnical C	nocification					BLC Mode	BIC / HIC / M/DB/1204b)
Technical Specification						BLC / HLC / WDR(120dB)	
Camera						White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Image Sensor		1/2.5" 8Megapixel progressive scan CMOS				Gain Control	Auto/Manual
Effective Pixels		3840(H)x2160(V)				Noise Reduction	3D DNR
RAM/ROM		512MB/32MB				Motion Detetion	Off / On (4 Zone, Rectangle)
Scanning System		Progressive				Region of Interest	Off / On (4 Zone)
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Electronic Image Stabilization	N/A
Minimum Illumination		0.06Lux/F1.6(Color,1/3s,30IRE) 0.3Lux/F1.6(Color,1/30s,30IRE) 0Lux/F1.6(IR on)				(EIS) Smart IR	Support
S/N Ratio		More than 50dB				Defog	N/A
IR Distance		Distance up to	o 80m (262ft)			Digital Zoom	16x
IR On/Off Control		Auto/ Manua	l			Flip	0°/90°/180°/270°
IR LEDs		4					
Lens						Mirror	Off / On
Lens Type		Fixed				Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type		Board-in				Audio	
Focal Length		2.8mm (4mm	optional)			Compression	G.711a/ G.711Mu/ AAC/ G.726
Max. Aperture		F1.6 (F1.6)				Network	
Angle of View		H:112° (88°), V:69° (48°) Fixed				Ethernet	RJ-45 (10/100Base-T)
Focus Control Close Focus Distance		0.9m(1.7m)				Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;
	Lens	Detect	Observe	Recognize	Identify		NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS
DORI Distance	2.8 mm	69m(226ft)	28m(92ft)	14m(46ft)	7m(23ft)	Interoperability	ONVIF, PSIA, CGI
	4mm	89m(292ft)	36m(118ft)	18m(59ft)	9m(30ft)	Streaming Method	Unicast / Multicast
Pan/Tilt/Rot	tation					Max. User Access	10 Users /20 Users
Pan/Tilt/Rotation Range Intelligence		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°				Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal				Web Viewer	IE, Chrome, Firefox, Safari
		Access,Storag	•			Management Software	Smart PSS, DSS, Easy4ip
IVS		Tripwire, Intri	, ,	Abandoned/N	Missing	Smart Phone	IOS, Android
Advanced Intelligent Functions		Face Detection				Certifications	
Video Compression		H.265/H.264/	/H.264B/H.26	4H/MJPEG(Su	b Stream)	Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Smart Codec		Support H.26	5+/H.264+			Interface	rec. recrait 13 Supparts
Streaming Capability		3 Streams					
Resolution		4K(3840×2160)/6M(3072×2048)/5M(2560×1920)/ 3M(2048x1536)/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)				Video Interface	N/A
						Audio Interface	1/1 channel In/Out
Frame Rate		Main Stream: 4K(1~15fps)/3M(1~25/30fps)				RS485	N/A 1 channel In: 5mA 5VDC
		Sub Stream: D1(1~25/30fps)				Alarm	1 channel Out: 300mA 12VDC
		Third Stream: 1080P(1~25/30fps)				Electrical	
Bit Rate Control		CBR/VBR				Power Supply	DC12V, PoE (802.3af)(Class 0)
Bit Rate		H.264: 24K ~ H.265: 14K ~ H.265				Power Consumption	<11W
Day/Night		Auto(ICR) / Color / B/W					

Eco Savvy 3.0 | DH-IPC-HFW4831T-ASE

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	244.1mm×79mm×75.9mm (9.61"×3.11"×2.99")
Net Weight	0.815kg (1.80lb)
Gross Weight	1.08kg (2.38lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HFW4831TP-ASE	8MP IR Mini Bullet Network Camera, WDR, PAL		
8MP camera	DH-IPC- HFW4831TN-ASE	8MP IR Mini Bullet Network Camera, WDR,NTSC		
SIMP Camera	IPC-HFW4831TP- ASE	8MP IR Mini Bullet Network Camera, WDR,PAL		
	IPC-HFW4831TN- ASE	8MP IR Mini Bullet Network Camera, WDR,NTSC		
	PFA135	Junction box		
Accessories (optional)	PFA152-E	Pole Mount		
	LR1002	ePoE Over Coax Converter		

Accessories

Optional:







PFA135 Junction Box

PFA152-E Pole Mount

LR1002 ePoE Over Coax Converter

Junction Mount	Pole Mount
PFA135	PFA135 + PFA152-E

Dimensions (mm/inch)



