

DH-IPC-HDW4831EM-ASE

8MP IR Eyeball 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
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (4mm optional)
- \cdot Built-in Mic
- \cdot Max. IR LEDs Length 50m
- 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, 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 Specification

Camera	
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Camera					
Image Sensor		1/2.5" 8Meg	apixel progre	ssive scan CN	105
Effective Pixels		3840(H)x2160(V)			
RAM/ROM		512MB/32MB			
Scanning Syste	m	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 50m (164ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		1			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8mm (4mm 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 Distance		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/Ro	tation				
Pan/Tilt/Rotation Range		Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°			
Intelligence					
IVS		Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intel	ligent Functions	Face Detection			
Video					
Compression		H.265+/H.265/H.264+/H.264			
Streaming Capa	ability	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)			
Frame Rate		Main Stream: 4K(1~15fps)/3M(1~25/30fps)			
		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) / C	Color / B/W		
BLC Mode		BLC / HLC / 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	G.711a/ G.711Mu/ AAC/ G.726
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	Built-in Mic
RS485	N/A
Alarm	N/A
Electrical	
Power Supply	DC12V, PoE (802.3af)(Class 0)
Power Consumption	<6W

Eco Savvy 3.0 | DH-IPC-HDW4831EM-ASE

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	N/A
Construction	
Casing	Metal
Dimensions	Ф106mm×93.7mm (4.17"×3.69")
Net Weight	0.47Kg (1.04lb)
Gross Weight	0.65Kg (1.43lb)

Ordering Information

Туре	Part Number	Description		
	DH-IPC- HDW4831EMP-ASE- 0400B	2MP IR Eyeball Network Camera, PAL		
	DH-IPC- HDW4831EMN-ASE- 0400B	2MP IR Eyeball Network Camera, NTSC		
	IPC-HDW4831EMP- ASE-0400B	2MP IR Eyeball Network Camera, PAL		
8MP camera	IPC-HDW4831EMN- ASE-0400B	2MP IR Eyeball Network Camera,NTSC		
	DH-IPC- HDW4831EMP-ASE- 0280B	2MP IR Eyeball Network Camera, PAL		
	DH-IPC- HDW4831EMN-ASE- 0280B	2MP IR Eyeball Network Camera, NTSC		
	IPC-HDW4231EMP- ASE-0280B	2MP IR Eyeball Network Camera, PAL		
	IPC-HDW4231EMN- ASE-0280B	2MP IR Eyeball Network Camera, NTSC		
Accessories	PFB204W	Wall mount		
	PFA130-E	Junction box		
(optional)	PFA152-E	Pole Mount		
	LR1002	ePoE Over Coax Converter		

Accessories

Optional:





PFB204W

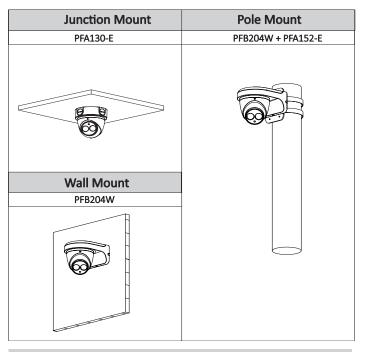
Wall Mount



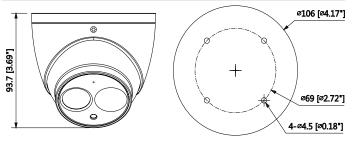


PFA130-E Junction Box

PFA152-E LR1002 Pole Mount ePoE Over Coax Converter



Dimensions (mm/inch)





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