

# 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)
- · Built-in Mic
- · 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						White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Camera					Gain Control	Auto/Manual	
		1/2.5" 8Megapixel progressive scan CMOS				Noise Reduction	3D DNR
Image Sensor		3840(H)x216		33IVC 3Call CIV	103	Motion Detetion	
Effective Pixels		512MB/32M					Off / On (4 Zone, Rectangle)
RAM/ROM		Progressive				Region of Interest	Off / On (4 Zone)
Scanning System  Electronic Shutter Speed			al, 1/3(4)~1/10	00000s		Electronic Image Stabilization (EIS)	N/A
Electronic Shutter Speed		0.06Lux/F1.6	6( Color,1/3s,	30IRE)		Smart IR	Support
Minimum Illumination		0.3Lux/F1.6( 0Lux/F1.6(IR	Color,1/30s,3 on)	30IRE)			
S/N Ratio		More than 5	OdB			Defog	N/A
IR Distance		Distance up	to 50m (164ft	t)		Digital Zoom	16x
IR On/Off Control		Auto/ Manua	al			Flip	0°/90°/180°/270°
IR LEDs		1				Mirror	Off / On
Lens						Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type		Fixed				Audio	
Mount Type		Board-in					C 741-1 C 741NA. / A A C / C 72C
Focal Length		2.8mm (4mn	m 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°)			Ethernet	RJ-45 (10/100Base-T)
Optical Zoom		N/A					HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS;
Focus Control		Fixed				Protocol	UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
Close Focus Dis	tance	0.9m(1.7m)				Interoperability	ONVIF, PSIA, CGI
	Lens	Detect	Observe	Recognize	Identify		
DORI Distance	2.8 mm	69m(226ft)	28m(92ft) 36m(118ft)	14m(46ft)	7m(23ft) 9m(30ft)	Streaming Method	Unicast / Multicast
4.0 mm		89111(29211)	30111(11011)	10111(3511)	3111(3011)	Max. User Access	10 Users /20 Users
Pan/Tilt/Rotation Pan/Tilt/Rotation Range		Pan:0*~360*; Tilt:0*~78*; Rotation:0*~360*				Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Intelligence						Web Viewer	IE, Chrome, Firefox, Safari
IVS		Tripwire, Intr	rusion, Object	t Abandoned,	/Missing	Management Software	Smart PSS, DSS, Easy4ip
Advanced Intel	ligent Functions	Face Detecti	on				
Video						Smart Phone	IOS, Android
Compression		H.265+/H.26	55/H.264+/H.2	264		Certifications	
Streaming Capability		3 Streams	50) (5) 4(0.070	00.40)/51.4/0	5.00 4000)/	Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Resolution		3M(2048x15	60)/6M(3072: 536)/3M(2304	l×1296)/	560×1920)/	Interface	
		720P(1280×	×1080)/1.3M( 720)/D1(704×	576/704×480	, ,	Video Interface	N/A
		VGA(640×48	30)/CIF(352×2	88/352×240)		Audio Interface	Built-in Mic
Frame Rate		Main Stream	n: 4K(1~15fps)	/3M(1~25/30	ofps)	RS485	N/A
		Sub Stream: D1(1~25/30fps)				11,700	.4/.
		Third Stream: 1080P(1~25/30fps)				Alarm	N/A
Bit Rate Control		CBR/VBR				Electrical	
Bit Rate		H.264: 24K ~ H.265: 14K ~				Power Supply	DC12V, PoE (802.3af)(Class 0)
Day/Night		Auto(ICR) / Color / B/W				Power Consumption	<6W
BLC Mode		BLC / HLC / V	VDR(120dB)				
220 111000							

# Eco Savvy 3.0 | DH-IPC-HDW4831EM-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	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						
	PFB204W	Wall mount						
Accessories	PFA139	Junction box						
(optional)	PFA152	Pole Mount						
	LR1002	ePoE Over Coax Converter						

# Accessories

# Optional:









PFA139 Junction Box

PFB204W Wall Mount

LR1002 Pole Mount ePoE Over Coax Converter

Junction Mount	Pole Mount
PFA139	PFB204W + PFA152-E
Wall Mount	
PFB204W	



