

DH-IPC-HDBW4831E-ASE

8MP IR Mini Dome 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)
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 30m
- · Micro SD memory, IP67, IK10, 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, IK10, 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) 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.



Technical Specification					White Balance	Auto/Natural/Street Lamp/Ou	
Camera			Gain Control	Auto/Manual			
Image Sensor		1/2.5" 8Megapixel progressive scan CMOS				Noise Reduction	3D DNR
Effective Pixels		3840(H)x2160(V)				Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		512MB/32MB				Region of Interest	Off / On (4 Zone)
Scanning System		Progressive				Electronic Image Stabilization	2, 2(. 22,
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s				(EIS)	N/A
Minimum Illumination		0.03Lux/F2.5(Color,1/3s,30IRE) 0.3Lux/F2.5(Color,1/30s,30IRE) 0Lux/F2.5(IR on)				Smart IR	Support
S/N Ratio		More than 50dB				Defog	N/A
IR Distance		Distance up to 30m (98ft)				Digital Zoom	16x
IR On/Off Conti	rol	Auto/ Manual				Flip	0°/90°/180°/270°
IR LEDs		18				Mirror	Off / On
Lens						Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type		Fixed				Audio	
Mount Type		Board-in				Compression	G.711a/ G.711Mu/ AAC/ G.726
Focal Length		2.8mm (4mm optional)				Network	
Max. Aperture		F2.5 (F2.2)					DI 45 (10/1000 T)
Angle of View		H:112° (88°),	V:69° (48°)			Ethernet	RJ-45 (10/100Base-T)
Optical Zoom		N/A				Protocol	HTTP; HTTPs; TCP; ARP; RTSP; FTP; DHCP; DNS; DDNS; PPPOE UPnP;NTP; Bonjour; 802.1x; M
Focus Control		0.0m/(1.7m)					IGMP; SNMP
Close Focus Dis	Lens	0.9m(1.7m)			Identify	Interoperability	ONVIF, PSIA, CGI
DORI Distance	2.8 mm	Detect 69m(226ft)	Observe 28m(92ft)	Recognize 14m(46ft)	7m(23ft)	Streaming Method	Unicast / Multicast
JONI Distance	4.0 mm				9m(30ft)	Max. User Access	10 Users /20 Users
Pan/Tilt/Rotation		89m(292ft) 36m(118ft) 18m(59ft) 9m(30ft)			3.11(33.13)	Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rotati	ū	Pan:0°~355°;	: Tilt:0°~64°; R	totation:0°~3!	55°	Web Viewer	IE, Chrome, Firefox, Safari
Intelligence							Smart PSS, DSS, Easy4ip
VS		Tripwire, Inti	rusion, Object	t Abandoned/	'Missing	Management Software	
Advanced Intell	ligent Functions	Face Detection				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 4K(3840×2160)/6M(3072×2048)/5M(2560×1920)/					FCC: FCC Part 15 Subpart B
		3M(2048x15	36)/3M(2304	1×1296)/	560×1920)/	Interface	
Resolution		1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480) /			0)/	Video Interface	N/A
		VGA(640×480)/CIF(352×288/352×240) Main Stream: 4K(1~15fps)/3M(1~25/30fps)				Audio Interface	1/1 channel In/Out
Frame Rate		Sub Stream: D1(1~25/30fps)				RS485	N/A
		Third Stream: 1080P(1~25/30fps)				Alarm	1 channel In: 5mA 5VDC
Bit Rate Control		CBR/VBR					1 channel Out: 300mA 12VDC
Bit Rate		H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps				Electrical	2010112 5 (6-1-1-2)
Day/Night		Auto(ICR) / Color / B/W				Power Supply	DC12V, PoE (802.3af)(Class 0)
BLC Mode		BLC / HLC / WDR(120dB)				Power Consumption	<5.2W

Environmental

Operating Conditions	-40° C $^{\sim}$ +60° C (-40° F $^{\sim}$ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Ф109.9mm×81mm (4.33"×3.19")
Net Weight	0.41kg (0.91lb)
Gross Weight	0.53 kg (1.17lb)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC- HDBW4831EP-ASE- 0400B	8MP IR Mini Dome Network Camera, WDR,PAL				
	DH-IPC- HDBW4831EN-ASE- 0400B	8MP IR Mini Dome Network Camera, WDR,NTSC				
	IPC-HDBW4831EP- ASE-0400B	8MP IR Mini Dome Network Camera, WDR,PAL				
8MP camera	IPC-HDBW4831EN- ASE-0400B	8MP IR Mini Dome Network Camera, WDR,NTSC				
owr camera	DH-IPC- HDBW4831EP-ASE- 0280B	8MP IR Mini Dome Network Camera, WDR,PAL				
	DH-IPC- HDBW4831EN-ASE- 0280B	8MP IR Mini Dome Network Camera, WDR,NTSC				
	IPC-HDBW4831EN- ASE-0280B	8MP IR Mini Dome Network Camera, WDR,PAL				
	IPC-HDBW4831EN- ASE-0280B	8MP IR Mini Dome Network Camera, WDR,NTSC				
	PFB203W	Wall mount				
	PFA136	Junction box				
Accessories (optional)	PFA152-E	Pole mount				
	LR1002	ePoE Over Coax Converter				
	PFA200W	Rain shade				

Accessories

Optional:











PFA136 Junction Box

PFB203W Wall Mount

LR1002 Pole Mount ePoE Over Coax Converter

PFA200W Rain shade

Junction Mount	Pole Mount	
PFA136	PFB203W + PFA152-E	
Wall Mount		
PFB203W		
	Pole Mount with Rain Shade	
	PFB203W + PFA152-E+PFA200W	
Wall Mount with Rain Shade PFB203W+PFA200W		

Dimensions (mm/inch)





