

# DH-IPC-HDBW5831E-ZE

8MP WDR IR 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.

### 4K technology

4K technology as a revolutionary breakthrough in image, which enhance the expressive image of essence, allowing users to experience the best picture quality brought about by the visual feast . For the purposes of 4K surveillance with four times the 1080P resolution, presented to the user with more details . Under the same scenario by raising the pixels , reduce the camera cost.

### Wide Dynamic Range

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.

- · 1/2.5″ 8Megapixel progressive scan STARVIS<sup>™</sup> CMOS
- · H.265&H.264 dual-stream encoding
- · 15fps@4K(3840×2160),25/30fps@3M(2304×1296)
- · Day/Night(ICR), 3DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~12mm motorized lens
- · Max. IR LEDs Length 50m
- · Micro SD card memory, IP67,IK10, PoE+



Intelligent Video System (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.

### Protection(IP67, IK10, wide voltage)

The camera allows for  $\pm 30\%$  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.





# Eco Savvy 3.0 | DH-IPC-HDBW5831E-ZE

## **Technical Specification**

Camera
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Camera					
Image Sensor		1/2.5″ 8Mega	ipixel progre	ssive scan CN	105
Effective Pixels	Effective Pixels		3840(H)x2160(V)		
RAM/ROM		512MB/32MB			
Scanning System	n	Progressive			
Electronic Shut	ter Speed	Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.05Lux/F1.4 (Color,1/3s,30IRE) 0.2Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 50m (164ft)			
IR On/Off Contr	rol	Auto/ Manual			
IR LEDs		3			
Lens					
Lens Type		Motorized/ Auto Iris(DC)			
Mount Type		Board-in			
Focal Length		2.7mm~12mm			
Max. Aperture		F1.4			
Angle of View		H:110°~40° , V:58°~23°			
Optical Zoom		4x			
Focus Control		Motorized			
Close Focus Dis	tance	0.3m			
DORI	Lens	Detect	Observe	Recognize	Identify
Distance	W T	85m(280ft) 228m(748ft)	34m(112ft)	17m(56ft)	8.5m(28ft)
Pan/Tilt/Ro		22011(74011)	91m(299ft	46m(151ft)	23m(75ft)
Pan/Tilt/Rotati		Pap+0°~355°·	Tilt:0°~65°. Pc	otation:0°~355	•
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Advanced Intelligent Functions Face Detection					
	Video			64	
Compression		H.265+/H.265/H.264+/H.264 3 Streams			
Streaming Capability		3 Streams 4K(3840×2160)/ 6M(3072×2048)/5M(3072x1728)/			
Resolution		5M(2592×1944)/4M(2688×1520)/3M(2048×1536)/ 3M(2304×1296)/1080P(1920×1080)/1.3M(128 0x960)/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: 720P(1~25/30fps)			
Bit Rate Control		CBR/VBR H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps			
Bit Rate		H.264: 24K ~	10240Kbps H	1.265: 14K ~ 9	984Kbps

NaturyAuto(CR) / Color/B/WBLC ModeBLC / HC / VDRWhite BalanceAuto/Natural/Street Lamp/Outdoor/ManualGain ControlAuto/ManualNaise ReductionG / D NRRegion of InterestG // On (4 Zone).Betforini Image StabilizationN/ABright Start RSupportDiright ZoomMarch 2000Jointo AutoMarch 2000Joint RMarch 2000Diright ZoomMarch 2000Joint RMarch 2000March 2000March 2000Joint RMarch 2000Joint RMarch 2000March 2000 </th <th></th> <th></th>			
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Arrow of the second s	Protocol	DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP;	
Nax. User Access10 Users /20 UsersMax. User Access10 Users /20 UsersEdge StorageNAS Local PC for instant recording Mirco SD card 128GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, Easy4ipSmart PhoneIOS, AndroidCertificationsCE (EN 60950:2000) UL:UL60950-1 FC: FCC Part 15 Subpart BInterface1 Port(For adjustment only)Audio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAlarm1 channel In: SmA SVDC 1 channel Out: 300mA 12VDCFlectricalD12V, AC24V, PoE+(802.3at)(Class 4)	Interoperability	ONVIF, PSIA, CGI	
InterferenceEdge StorageNAS Local PC for instant recording Mirco SD card 128GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, Easy4ipSmart PhoneIOS, AndroidCertificationsCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterface1 Port(For adjustment only)Audio Interface1/1 channel In/OutRS485N/AAlarm1 channel In: SmA SVDC 1 channel Out: 300mA 12VDCElectricalVorter SupplyPower SupplyDC12V, AC24V, PE+(802.3at)(Class 4)	Streaming Method	Unicast / Multicast	
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Management Software       Smart PSS, DSS, Easy4ip         Smart Phone       IOS, Android         Certifications       CE (EN 60950:2000) ULUL60950-1 FCC: FCC Part 15 Subpart B         Interface       Interface         Video Interface       1 Port(For adjustment only)         Audio Interface       V/A         RS485       N/A         Alarm       1 channel In: SmA SVDC 1 channel Out: 300mA 12VDC         Power Supply       D12V, AC24V, PoE+(802.3at)(Class 4)	Edge Storage	Local PC for instant recording	
Smart PhoneIOS, AndroidCertificationsCertificationsCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceInterfaceVideo Interface1 Port(For adjustment only)Audio Interface1/1 channel In/OutRS485N/AAlarm1 channel In: SmA SVDC 1 channel Out: 300mA 12VDCElectricalD12V, AC24V, PoE+(802.3at)(Class 4)	Web Viewer	IE, Chrome, Firefox, Safari	
Certifications       CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B         Interface       1 Port(For adjustment only)         Video Interface       1/1 channel In/Out         Audio Interface       N/A         RS485       N/A         Alarm       1 channel In: SmA 5VDC 1 channel Out: 300mA 12VDC         Electrical       D12V, AC24V, PoE+(802.3at)(Class 4)	Management Software	Smart PSS, DSS, Easy4ip	
CertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterface1 Port(For adjustment only)Video Interface1 Port(For adjustment only)Audio Interface1/1 channel In/OutRS485N/AAlarm1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDCElectrical012V, AC24V, PoE+(802.3at)(Class 4)	Smart Phone	IOS, Android	
CertificationsUL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceInterfaceVideo Interface1 Port(For adjustment only)Audio Interface1/1 channel In/OutRS485N/AAlarm1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDCElectricalDC12V, AC24V, PoE+(802.3at)(Class 4)	Certifications		
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Audio Interface     1/1 channel In/Out       RS485     N/A       Alarm     1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC       Electrical     DC12V, AC24V, PoE+(802.3at)(Class 4)	Interface		
RS485     N/A       Alarm     1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC       Electrical       Power Supply     DC12V, AC24V, PoE+(802.3at)(Class 4)	Video Interface	1 Port(For adjustment only)	
Alarm     1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC       Electrical       Power Supply     DC12V, AC24V, PoE+(802.3at)(Class 4)	Audio Interface	1/1 channel In/Out	
Alarm 1 channel Out: 300mA 12VDC Electrical Power Supply DC12V, AC24V, PoE+(802.3at)(Class 4)	RS485	N/A	
Power Supply DC12V, AC24V, PoE+(802.3at)(Class 4)	Alarm		
	Electrical		
Power Consumption <15W	Power Supply	DC12V, AC24V, PoE+(802.3at)(Class 4)	
	Power Consumption	<15W	

TIDMS

# Eco Savvy 3.0 | DH-IPC-HDBW5831E-ZE

#### Environmental

	200 C
Operating Conditions	-30° C $\sim$ +60° C (-22° F $\sim$ +140° F) / Less than 95% RH
Strorage Conditions	-30° C $\sim$ +60° C (-22° F $\sim$ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	Φ159.1mm×117.9mm (6.26"×4.64")
Net Weight	0.95kg (2.09lb)
Gross Weight	1.20kg (2.65lb)

### **Ordering Information**

Туре	Part Number	Description
	DH-IPC- HDBW5831EP-ZE	8MP IR Dome Network Camera, WDR, PAL
8MP camera	DH-IPC- HDBW5831EN-ZE	8MP IR Dome Network Camera, WDR, NTSC
SIVIP Calliera	IPC-HDBW5831EP-ZE	8MP IR Dome Network Camera, WDR, PAL
	IPC-HDBW5831EN- ZE	8MP IR Dome Network Camera, WDR, NTSC
	PFB302S	Wall mount
	PFA138	Junction box
	PFB201C	In-ceiling mount
Accessories (optional)	PFA101	Mount adapter
	PFB300C	Ceiling mount
	PFA152-E	Pole mount
	LR1002	ePoE Over Coax Converter

### Accessories

PFB302S

### **Optional:**







Wall mount Juntion Box

PFB201C LR1002 In-ceiling mount ePoE Over Coax Converter



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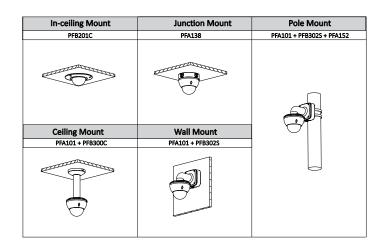
PFA152-E

Pole mount

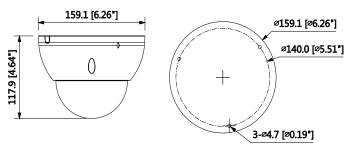


PFB300C Ceiling mount

PFA101 Mount adapter









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