

DH-IPC-HDBW5831R-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™ 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-HDBW5831R-ZE

Technical Specification

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Camera					
Image Sensor		1/2.5" 8Megapixel progressive scan CMOS			
Effective Pixels		3840(H)x2160(V)			
RAM/ROM		512MB/32MB			
Scanning Syste	m	Progressive			
Electronic Shut	ter Speed	Auto/Manual, 1/3~1/100000s			
Minimum Illum	ination	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 Cont	rol	Auto/ Manual			
IR LEDs		2			
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	stance	0.3m			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	85m(280ft)	34m(112ft)	17m(56ft)	8.5m(28ft)
	Т	228m(748ft)	91m(299ft	46m(151ft)	23m(75ft)
Pan/Tilt/Ro	tation				
Pan/Tilt/Rotati	on Range	Pan:0°~355°;1	۲ilt:0°~75°; Rot	ation:0°~355°	
Intelligence	e				
IVS		Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intel	ligent Functions	Face Detection			
Video					
Compression		H.265+/H.265/H.264+/H.264			
Streaming Capability		3 Streams			
Resolution		4K(3840×2160)/ 6M(3072×2048)/5M(3072×1728)/ 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			
Bit Rate		H.264: 24K ~	10240Kbps H	1.265: 14K ~ 9	984Kbps

NatureAutolCR) / Color / B/WBLC ModeBLC / HLC / WDRBLC ModeAuto/Natural/Street Lamp/Outdoor/ManualGain ControlAuto/Natural/Street Lamp/Outdoor/ManualNoise ReductionDDNRMotion DetectionG/f / On (4 Zone, Rectangle)Region of InterestOff / On (4 Zone, Rectangle)Bedron InterestSupportBedron InterestVanouJogtal ZoomN/ADigtal ZoomOff / On (4 Zone, Rectangle)HirrorOff / On (4 Zone, Rectangle)MirrorOff / On (4 Zone, Rectangle)MirrorOff / On (4 Zone, Rectangle)Privacy MaskingOff / On (4 Area, Rectangle)NaturorOff / On (4 Area, Rectangle)Privacy MaskingOff / On (4 Area, Rectangle)NetworkVaria / Social /		
White BalanceAuto/Natural/Street Lamp/Outdoor/ManualGain ControlAuto/ManualGain ControlSDNRIndition DetetionOff / On (4 Zone, Rectangle)Region of InterestOff / On (4 Zone, Rectangle)Begion of InterestSupportDefogNADefogN/ADefogOff / On (4 Zone, Rectangle)Digital ZoomNAMirrorOff / On (4 Zone, Rectangle)MirrorOff / On (A Area, Rectangle)Privacy MaskingOff / On (A Area, Rectangle)OutproversionOff / On (4 Area, Rectangle)ProtocolSongure, Sol (2),	Day/Night	Auto(ICR) / Color / B/W
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Region of InterestOff / On (4 Zone)Region of InterestOff / On (4 Zone)Electronic Image StabilizationSwaportSmart IRSupportDefogN/ADigital ZoomTexFlip0'90'/180'/270'MirrorOff / OnPrivacy MaskingOff / On (4 Area, Rectangle)AudioTrueFuenceSamon (A rea, Rectangle)AudioSamon (A rea, Rectangle)NetworkSamon (A rea, Rectangle)ProtocolSamon (A rea, Rectangle)InteroperabilityRJ-45 (10/1008ase-T)InteroperabilityONVIF, PSIA, CGIMax. User AccessIo Users / 20 UsersKanagement SoftwareSmart PSIA, CGIWeb ViewerIo Scand 126G8050-1Kanagement SoftwareSmart PSIA, DSIA, Easy4lpGertificationsCE (ENG08050-1CertificationsCE (ENG08050-1Kideo InterfaceN/AAudio InterfaceChannel In:SmA SVDCAudio InterfaceChannel In:SmA SVDCAudio InterfaceChannel In:SmA SVDCAudio	Noise Reduction	3D DNR
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CompressionG.711a/ G.711Mu/ AAC/ G.726CompressionG.711a/ G.711Mu/ AAC/ G.726NetworkEthernetEthernetRJ-45 (10/100Base-T)ProtocolHTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; Bonjour; B02.1x; Multicast; ICMP; IGMP; SNMPInteroperabilityONVIF, PSIA, CGIStreaming MethodUnicast / MulticastMax. 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 FCC: FCC Part 15 Subpart BInterfaceVideo InterfaceVideo InterfaceN/AAudio InterfaceN/AAudio Interface1/1 channel In/OutRS485N/AAlarm1 channel In: SmA SVDC channel Out: 300mA 12VDCPower SupplyDC12V, PGE(802.3af)(Class 0)	Privacy Masking	Off / On (4 Area, Rectangle)
Intervery Ethernet RJ-45 (10/100Base-T) Protocol HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SMMP Interoperability ONVIF, PSIA, CGI Streaming Method Unicast / Multicast Max. User Access 10 Users / 20 Users Keby Viewer 10 Users / 20 Users Management Software Kart PSS, DSS, Easy4ip Smart Phone IOS, Android Certifications CE (EN 60950:2000) Util LUL USE SOFON ULU USERSOFON Video Interface N/A Audio Interface N/A Audio Interface N/A Alarm 1 channel In: SmA SVDC channel Out: 300mA 12VDC Power Supply DC12V, PGE(802.3ef)(Class 0)	Audio	
EthernetRJ-45 (10/100Base-T)EthernetRJ-45 (10/100Base-T)ProtocolHTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPPP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMPInteroperabilityONVIF, PSIA, CGIInteroperabilityONVIF, PSIA, CGIMax. User Access10 Users /20 UsersEdge StorageNAS Local PC for instant recording 	Compression	G.711a/ G.711Mu/ AAC/ G.726
ProtocolHTTP; HTTP; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMPInteroperabilityONVIF, PSIA, CGIStreaming MethodUnicast / MulticastMax. 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 EC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAlarm1 channel In: SmA SVDC 1 channel Out: 300mA 12VDCElectricalDC12V, POE(802.3af)(Class 0)	Network	
ProtocolDHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMPInteroperabilityONVIF, PSIA, CGIStreaming MethodUnicast / MulticastMax. 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: UL 60950-1 FCC: FCC Part 15 Subpart BVideo InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAlarm1 channel In/OutRS485N/AAlarm1 channel In: SmA SVDC 1 channel Out: 300mA 12VDCPower SupplyDC12V, PoE(802.3af)(Class 0)	Ethernet	RJ-45 (10/100Base-T)
Streaming MethodUnicast / MulticastMax. 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 BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAlarm1 channel In: SmA SVDC 1 channel Out: 300mA 12VDCFlectricalPower SupplyDot2V, PoE(802.3af)(Class 0)	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) U:UL60950:1 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAlarm1 channel In/OutAlarm1 channel In: SmA 5VDC 1 channel Out: 300mA 12VDCFlectricalVore SupplyDot12V, PoE(802.3af)(Class 0)	Interoperability	ONVIF, PSIA, CGI
Edge 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 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/ARS485N/AAlarm1 channel In/OutElectricalLocannel Out: 300mA 12VDC channel Out: 300mA 12VDCPower SupplyDC12V, PoE(802.3af)(Class 0)	Streaming Method	Unicast / Multicast
Edge StorageLocal PC for instant recording Mirco SD card 128GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, Easy4ipSmart PhoneIOS, AndroidCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/ARS485N/AAlarm1 channel In/OutElectricalLPower SupplyDC12V, PoE(802.3af)(Class 0)	Max. User Access	10 Users /20 Users
Management SoftwareSmart PSS, DSS, Easy4ipSmart PhoneIOS, AndroidCertificationsCertificationscertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AVideo InterfaceN/AAudio InterfaceN/ARS485N/AAlarm1 channel In/OutElectrical1 channel In: SmA 5VDC 1 channel Out: 300mA 12VDCPower SupplyDC12V, POE(802.3af)(Class 0)	Edge Storage	Local PC for instant recording
Smart PhoneIOS, AndroidCertificationsCertificationsCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/ARS485N/AAlarm1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDCElectricalD12V, PoE(802.3af)(Class 0)	Web Viewer	IE, Chrome, Firefox, Safari
Certifications CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Interface N/A Audio Interface N/A Audio Interface 1/1 channel In/Out RS485 N/A Alarm 1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC Electrical DC12V, PoE(802.3af)(Class 0)	Management Software	Smart PSS, DSS, Easy4ip
CertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AVideo InterfaceN/AAudio Interface1/1 channel In/OutRS485N/AAlarm1 channel In: SmA 5VDC 1 channel Out: 300mA 12VDCElectricalPower SupplyDC12V, PoE(802.3af)(Class 0)	Smart Phone	IOS, Android
Certifications UL:UL60950-1 FCC: FCC Part 15 Subpart B Interface N/A Audio Interface N/A Audio Interface 1/1 channel In/Out RS485 N/A Alarm 1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC Electrical DC12V, POE(802.3af)(Class 0)	Certifications	
Video Interface N/A Audio Interface 1/1 channel In/Out RS485 N/A Alarm 1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC Electrical DC12V, PoE(802.3af)(Class 0)	Certifications	UL:UL60950-1
Audio Interface 1/1 channel In/Out RS485 N/A Alarm 1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC Electrical Power Supply DC12V, PoE(802.3af)(Class 0)	Interface	
RS485 N/A Alarm 1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC Electrical Power Supply DC12V, PoE(802.3af)(Class 0)	Video Interface	N/A
Alarm 1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC Electrical Power Supply DC12V, PoE(802.3af)(Class 0)	Audio Interface	1/1 channel In/Out
Alarm 1 channel Out: 300mA 12VDC Electrical Power Supply DC12V, PoE(802.3af)(Class 0)	RS485	N/A
Power Supply DC12V, PoE(802.3af)(Class 0)	Alarm	
	Electrical	
Power Consumption <8.5W	Power Supply	DC12V, PoE(802.3af)(Class 0)
	Power Consumption	<8.5W

Eco Savvy 3.0 | DH-IPC-HDBW5831R-ZE

Environmental	
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	Φ122mm×88.9mm (4.8"×3.5")
Net Weight	0.5kg (1.1lb)
Gross Weight	0.58kg (1.29lb)

Ordering Information

Туре	Part Number	Description
8MP camera	DH-IPC- HDBW5831RP-ZE	8MP IR Dome Network Camera, WDR, PAL
	DH-IPC- HDBW5831RN-ZE	8MP IR Dome Network Camera, WDR, NTSC
	IPC-HDBW5831RP- ZE	8MP IR Dome Network Camera, WDR, PAL
	IPC-HDBW5831RN- ZE	8MP IR Dome Network Camera, WDR, NTSC
Accessories (optional)	PFB203W	Wall mount
	PFA137	Junction box
	PFB200C	In-ceiling mount
	PFA152-E	Pole Mount
	LR1002	ePoE Over Coax Converter

Accessories

Optional:





Pole Mount





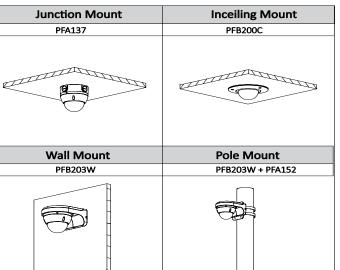
PFA137 Junction Box

PFB203W Wall Mount

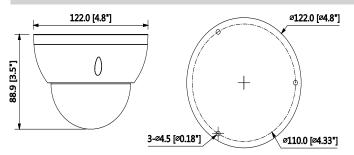
PFB200C In-ceiling Mount



ePoE Over Coax Converter



Dimensions (mm/inch)





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