

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[™] 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

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Digital Zoom16xDigital Zoom16xFlip0'90'180'270°MirrorOff / OnPrivacy MaskingOff / On (4 Area, Rectangle)AtudioCompressionG.711a/ G.711Mu/ AAC/ G.726NetworkEthernetRJ-45 (10/100Base-T)ProtocolDivers, CGIProtocolONVIF, PSIA, CGIStreaming MethodUnicast / Multicast (ICMP; IGMP; SNMP)Max. User Access0 Users / 20 UsersManagement SoftwareIscart PSS, DSS, Easy4ipSmart PhoneIoS, AndroidCertificationsE (E(N 60950:2000) ULUS0505-1 SULS0595)FriefaceVideo Interface1 Port(For adjustment only)Adain InterfaceIntonnel In/OutAdaraIchannel In/SmA SVDC 1 channel OutAdaraIchannel In/SmA SVDC 1 channel OutFlectricalDO12V, AC24V, POE+(802.3at)(Class 4)	Smart IR	Support			
Filp0'90'180'270°Filip0'90'180'270°MirrorOff / OnPrivacy MaskingOff / On (4 Area, Rectangle)AudioCompressionG.711a/G.711Mu/ AAC/ G.726NetworkEthernetRJ-45 (10/100Base-T)ProtocolMTTP; HTTPs; TCP; APP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DDNS; DDNS; PPPOE; IPV4/v6; QoS; UDPN2, MTPInteroperabilityONVIF, PSIA, CGIMax. User AccessI Uicest / Multicast (CMP; GMP; SNMP)Kage StorageNAS bocial PC for instant recording Mirco SD card 128GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PS5, DS5, Easy4ipSmart PhoneIOS, AndroidCertificationsCE (EN 60950-2000) ULU LG0950-1 CFC CP art 15 Subpart BMatio Interface1 Port(For adjustment only)Audio InterfaceI Arannel In/OutAudio InterfaceI channel In/OutAudio InterfaceI channel In/SmA SVDC 1 channel out: 300M 12VDCAudio InterfaceDA 1 channel In/SMA SVDC 1 channel OUT: 200M 12VDCFlectricalDC12V, AC24V, PDE+(802.3at)(Class 4)	Defog	N/A			
NirrorOff/OnPrivacy MaskingOff/On (4 Area, Rectangle)AudioCompressionCompressionG.711a/G.711Mu/ AAC/G.726NetworkFilternetEthernetRI-45 (10/100Base-T)ProtocolHTTP; HTTP; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOG; IPV4/v6; QoS; UPNP, NTP; Bonjour; 80.2.1x; Multicast; ICMP; IGMP; SNMPInteroperabilityONVIF, PSIA, CGIMax. User Access10 Users /20 UsersEdge StorageIcC for instant recording Mirco SD card 128GBWeb ViewerE, Chrome, Firefox, SafariManagement SoftwareSmart PS5, DS5, Easy4ipStratficationsCE (EN 60950:2000) LUUL05950-1 FCC: FCC Part 15 Subpart BInterfaceVideo InterfaceVideo Interface1 Port(For adjustment only)AdarmIchannel In/OutRS485N/AAlarmIchannel In/Som A SVDC 1 channel out: 300mA 12VDCProtocialDI2V, AC24V, PoE+(802.3at)(Class 4)	Digital Zoom	16x			
Privacy MaskingOff/On (4 Area, Rectangle)AudioCompressionG.711a/ G.711Mu/ AAC/ G.726NetworkEthernetRJ-45 (10/100Base-T)ProtocolMTTP; HTTP; TCP; ARP, RTSP; RTP; UDP; SMTP; FTD; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMPInteroperabilityONVIF, PSIA, CGIStreaming MethodUnicast / MulticastMax. User Access10 Users /20 UsersEdge StorageKS Socal PC for instant recording Mirco SD card 128GBWeb ViewerE. Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, Easy4ipStreationsCE (EN 60950-2000) ULUL60950-1 EC: FCC Part 15 Subpart BInterfaceI Port(For adjustment only)Audio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAuran1 channel In: SmA SVDC thannel Out: 300mA 12VDCFlectricalProtocol 2000 (Liceal additioned	Flip	0°/90°/180°/270°			
AudioCompressionG.711a/ G.711Mu/ AAC/ G.726CompressionG.711a/ G.711Mu/ AAC/ G.726NetworkFibernetEthernetRJ-45 (10/100Base-T)ProtocolDHCP; DNS; DDDS; PPPOE; IPv4/v6; QoS; UPNP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMPInteroperabilityONVIF, PSIA, CGIStreaming MethodUnicast / MulticastMax. User Access10 Users /20 UsersEdge StorageKassWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareIOS, AndroidCertificationsCE (EN 60950-2000) EC: FCC Part 15 Subpart BFideo InterfaceI Port(For adjustment only)Audio InterfaceI Port(For adjustment only)Audio InterfaceNAAlarm1 channel In: SmA SVDC t channel Out: 300mA 12VDCFilectricalSmart PADC t channel Out: 300mA 12VDC	Mirror	Off / On			
CompressionG.711a/ G.711Mu/ AAC/ G.726CompressionG.711a/ G.711Mu/ AAC/ G.726NetworkFthernetEthernetRJ-45 (10/100Base-T)ProtocolHTTP; HTTP; TTCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; Oos; 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) ULUL06950-1 PCC: FCC Part 15 Subpart BInterface1Video Interface1Video Interface1/1 channel In/OutAdarm1 channel In/OutAlarm1 channel In/OutAlarm1 Channel In/OutPower SupplyDC12V, AC24V, POE+(802.3at)(Class 4)	Privacy Masking	Off / On (4 Area, Rectangle)			
NetworkEthernetRJ-45 (10/100Base-T)ProtocolHTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; bonjour; 802.1x; Multicast; ICMP; IGMP; SMMPInteroperabilityONVIF, PSIA, CGIStreaming MethodUnicast / MulticastMax. User Access0 Users /20 UsersEdge StorageKAS bocal PC for instant recording wirco SD card 128GBWeb ViewerE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, Easy4ipSmart PhoneIO, SndroidCertificationsE (EN 60950:2000) UL: ULS0950-1 FCC: FCC Part 15 Subpart BNideo Interface1 Port(For adjustment only)Audio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio Interface1 channel In: SmA 5VDC channel Out: 300m A12VDCFettricalDiczy, AC244, PoE+(802.3at)(Class 4)	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; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMPInteroperabilityONVIF, PSIA, CGIStreaming MethodUnicast / MulticastMax. User Access10 Users /20 UsersEdge StorageLic, Chrome, Firefox, SafariWeb ViewerE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, Easy4ipSmart PhoneIOS, AndroidCertificationsUL:UL60950-1 FC: FCC Part 15 Subpart BVideo Interface1 Port(For adjustment only)Audio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/APower SupplyDC12V, AC24V, PoE+(802.3at)(Class 4)	Compression	G.711a/ G.711Mu/ AAC/ G.726			
ProtocolHTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMPPInteroperabilityONVIF, 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, AndroidCertificationsUsers /2000) UL:UL60950-1 FC: FCC Part 15 Subpart BVideo Interface1 Port(For adjustment only)Audio InterfaceN/AAudio InterfaceN/AAlarmIchannel In: SmA SVDC 1channel Out: 300mA 12VDCAPower SupplyDC12V, AC24V, PoE+(802.3at)(Class 4)	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 PS, DSS, Easy4ipSmart PhoneIOS, AndroidCertificationsEE (EN 60950:2000) UL: UL60950-1 PC: FCC Part 15 Subpart BVideo Interface1 Port(For adjustment only)Audio InterfaceN/AAudio InterfaceN/AAlarm1 channel In: SmA 5VDC 1 channel Out: 300mA 12VDCFleetricalVI2V, AC24V, PE+(802.3at)(Class 4)	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, AndroidCertificationsEE (EN 60950-2000) UL:UL60950-1 FC: FCC Part 15 Subpart BInterface1 Port(For adjustment only)Audio Interface1/1 channel In/OutRs485N/AAlarm1 channel In: SmA SVDC channel Out: 300mA 12VDCFeetrical2Power SupplyDC12V, AC24V, PoE+(802.ast)(Class 4)	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 Interface1 Port(For adjustment only)Audio InterfaceN/AAudio InterfaceN/AAlarm1 channel In: SmA SVDC 1 channel Out: 300mA 12VDCElectricalPower SupplyPower SupplyDC12V, AC24V, PoE+(802.3at)(Class 4)	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 BInterfaceI Port(For adjustment only)Video Interface1 Port(For adjustment only)Audio InterfaceI/1 channel In: SmA SVDC 1 channel Out: 300mA 12VDCAlarm1 Claty, AC24V, PoE+(802.3at)(Class 4)	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 BInterfaceI Port(For adjustment only)Audio Interface1/1 channel In/OutRS485N/AAlarm1 channel In: SmA SVDC 1 channel Out: 300mA 12VDCElectricalVorter SupplyDover SupplyD(212V, AC24V, PoE+(802.3at)(Class 4)	Max. User Access	10 Users /20 Users			
Nanagement SoftwareSmart PSS, DSS, Easy4ipSmart PhoneIOS, AndroidCertificationsE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 1S Subpart BInterfaceIPort(For adjustment only)Video Interface1/1 channel In/OutAudio InterfaceN/ARS485N/AAlarm1 channel In: SmA SVDC 1 channel Out: 300mA 12VDCElectricalD212V, 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 12VDCElectricalDC12V, AC24V, PoE+(802.3at)(Class 4)	Web Viewer	IE, Chrome, Firefox, Safari			
Certifications E (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Interface Interface Video Interface 1 Port(For adjustment only) Audio Interface 1/1 channel In/Out RS485 N/A Alarm 1 channel In: SmA SVDC 1 channel Out: 300mA 12VDC Electrical DC12V, AC24V, PoE+(802.3at)(Class 4)	Management Software	Smart PSS, DSS, Easy4ip			
CertificationsCE (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 12VDCElectricalVI2V, 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				
Video Interface1 Port(For adjustment only)Audio Interface1/1 channel In/OutRS485N/AAlarm1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDCElectricalPower SupplyDC12V, AC24V, PoE+(802.3at)(Class 4)	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 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			

Eco Savvy 3.0 | DH-IPC-HDBW5831E-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	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	
8MP camera	DH-IPC- HDBW5831EP-ZE	8MP IR Dome Network Camera, WDR, PAL	
	DH-IPC- HDBW5831EN-ZE	8MP IR Dome Network Camera, WDR, NTSC	
	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

PFB300C

Ceiling mount

Optional:







Wall mount Juntion Box

PFB201C LR1002 In-ceiling mount ePoE Over Coax Converter



PFA152-E

Pole mount



PFA101 Mount adapter









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