

DH-IPC-HDBW5231R-Z

2MP WDR IR Dome Network Camera



System Overview

Eco-savvy products by upgrading H.265 encoding technology, bringing high efficient video compression. It saves bandwidth and storage , energy-saving design to enhance the monitoring system . Meanwhile, the series offers features such as starlight , Smart IR technology , intelligent image analysis techniques. It provides excellent image quality and intelligent and efficient event reminders . This series provides IP67 weatherproof and IK10 vandal-proof protection feature. Give customers more value

Functions

Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.006 lux).

Wide Dynamic Range

Embeded with industry leading wide dynamic range (WDR) technology, vivid picutures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 50/60fps@1080(1920×1080)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~12mm motorized lens
- \cdot 1/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 50m
- · Micro SD memory, IP67, IK10, PoE



camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

Protection

Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream , encoding quality , and the delay between algorithm complexity , optimize settings specific contents include : Improve compression efficiency , improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay , reduce complexity , etc



Environmental

IDMJ

With a temperature range of-30 °C to +60 °C (-22 °F to +140 °F), the

Eco Savvy 3.0 | DH-IPC-HDBW5231R-Z

Technical Specification

| Camera | Camera | | | | |
|----------------------|------------------|--|------------|-----------|-----------|
| Image Sensor | | 1/2.8" 2Megapixel progressive scan CMOS | | | |
| Effective Pixels | | 1920(H) x 1080(V) | | | |
| RAM/ROM | | 256MB/32MB | | | |
| Scanning System | | Progressive | | | |
| Electronic Shut | ter Speed | Auto/Manual, 1/3~1/100000s | | | |
| Minimum Illumination | | 0.006Lux/F1.4 (Color,1/3s,30IRE) 0.05Lux/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 | | 2 | | | |
| Lens | | | | | |
| Lens Type | | Motorized/ Auto Iris(DC) | | | |
| Mount Type | | Board-in | | | |
| Focal Length | Focal Length | | 2.7mm~12mm | | |
| Max. Aperture | | F1.4 | | | |
| Angle of View | | H: 97°~34°, V: 52°~20° | | | |
| Optical Zoom | | 4x | | | |
| Focus Control | | Motorized | | | |
| Close Focus Dis | tance | 0.3m | | | |
| | Lens | Detect | Observe | Recognize | Identify |
| DORI Distance | W | 48m(157ft) | 19m(62ft) | 10m(33ft) | 5m(16ft) |
| | Т | 133m(436ft) | 53m(174ft) | 27m(89ft) | 13m(46ft) |
| Pan/Tilt/Rot | tation | | | | |
| Pan/Tilt/Rotati | on Range | Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355° | | | |
| Intelligence | | | | | |
| IVS (optional) | | Tripwire, Intrusion, Object Abandoned/Missing | | | |
| Advanced Intell | ligent Functions | Face Detection | | | |
| Video | | | | | |
| Compression | | H.265+/H.265/H.264+/H.264 | | | |
| Streaming Capability | | 3 Streams | | | |
| Resolution | | 1080P(1920x1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240) | | | |
| Frame Rate | | Main Stream: 1080P(1~50/60fps) | | | |
| | | Sub Stream: D1(1~50/60fps) | | | |
| | | Third Stream: 1080P(1~25/30fps) | | | |
| Bit Rate Control | | CBR/VBR | | | |
| Bit Rate | | H.264: 24~9472Kbps H.265: 14~5632Kbps | | | |

| Day/NightAuto(CR) / Color / P/WBLC ModeBL/ HC / VDR(1208)BLC ModeAuto/Natural/Street Lamp/Outdoor/ManualGain ControlAuto/Natural/Street Lamp/Outdoor/ManualNoise ReductionBD NRMotion DetetionG/ / On (A Zone, Rectangle)Region InterestG/ / On (A Zone, Rectangle)Belgroni Image StabilizabilNASmart IRSuportDigital ZoomG/ / On (A Zone)Privacy MaskingG/ / On (A Zone)MirrorG/ / On (A Zone)AutioSint IRDigital ZoomG/ / On (A Zone)MirrorG/ / On (A Zone)AutioSint IRAutioG/ / On (A Zone)AutorG/ / On (A Xena, Rectangle)AutorG/ / On (A Xena, | | | |
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| InternationInternationNoise Reduction3D NRMotion DetetionOff / On (4 Zone, Rectangle)Region of InterestOff / On (4 Zone)Electronic Image StabilizationN/ASmart IRSupportDefogN/ADigital Zoom16xHipO'907/1807/270*MirrorOff / On (4 Area, Rectangle)MirrorOff / On (4 Area, Rectangle)AudioTuryPrivacy MaskingO'f1/ On (4 Area, Rectangle)NetworkTuryProtocolSoff / On (4 Area, Rectangle)NetworkTuryProtocolN/A (5 Z) 14/0 / AAC/ 6.726Steaming MethodN/A (S) (2008as-T)NetworkTury, HTTP; TCP; ARP; RTSP; RTP; UDP; SMTP; Prp. DicP; DNS, PPPOC; INV4/V6; 005; DVP/NFP; Boljour; 802.12; Multicast; ICMP; ONN; PSIA, CGISteaming MethodIO Users / 20 UsersMagement SoftwareIo Sard PG for instant recording Mirco SD card 128GBManagement SoftwareSick AndroidHurefaceVi/Lice DSS in Subjeart BLicetificationsCE (EN GOSSO 2000) Lice USSO 1 Subjeart BMadio InterfaceN/AAudio InterfaceN/A <t< td=""><td>White Balance</td><td>Auto/Natural/Street Lamp/Outdoor/Manual</td></t<> | White Balance | Auto/Natural/Street Lamp/Outdoor/Manual | |
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| Region of InterestOff / On (4 Zone)Region of InterestOff / On (4 Zone)Electronic Image StabilizationN/ASmart IRSupportDefogN/ADigital Zoom16xFlipO'90'/180'/270°MirrorOff / On (4 Area, Rectangle)MirrorOff / On (4 Area, Rectangle)AudioCompressionAutionStall Act (21 Mul/ AAC/ G.726NetworkR-45 (10/100Base-T)ProtocolNIVE, PSIA, CGIMirror stall and the protocol state of the protocol s | Noise Reduction | 3D DNR | |
| Iterctonic Image Stabilization [EIS)N/ASupportDefogN/ADigital Zoom16xFlip01907/1807/270*MirrorOff / OnPrivacy MaskingOff / On (4 Area, Rectangle)Audio | Motion Detetion | Off / On (4 Zone, Rectangle) | |
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| Digital Zoom16xDigital Zoom16xFlip0/90'/180'/270°MirrorOff / OnPrivacy MaskingOff / On (4 Area, Rectangle)Audio | Smart IR | Support | |
| Filp0/907/1807/270°Filip0/907/1807/270°Mirror0ff / 0nPrivacy Masking0ff / 0n (4 Area, Rectangle)AudioCompressionG.711a/G.711Mu/ AAC/ G.726NetworkFatemetR.45 (10/100Base-T)ProtocolMVIF, PS1A, CGIProtocolONVIF, PS1A, CGIMax. User AccessI Olsers / 20 UsersAdagement SoftwareIscal PC for instant recording Mirco SD card 128GBWeb ViewerIo, SAndroidStraning MethodIS, AndroidGertificationsCf (EN GOSS): 2000) EC: FCC Part 15 Subpart BInterfaceViale AndroidVideo InterfaceNAS Local PC for instant recording Mirco SD card 128GBManagement SoftwareSmart PSS, DSS, Easy4ipGertificationsCf (EN GOSS): 2000) EC: FCC Part 15 Subpart BInterfaceViale AndroidMato InterfaceNAS Local PC for instant Recording Mirco SD card 128GBManagement SoftwareSmart PSS, DSS, Easy4ipGertificationsCf (EN GOSS): 2000) EC: FCC Part 15 Subpart BInterfaceNAVideo InterfaceNAAudio InterfaceNAAudio InterfaceNAStatsN/AAudio InterfaceStats SSUC Compart 15 Subpart 12 CC Channel Out: 300mA 12VDCFelectricalDicty PoE(802.aft)(Class 0) | Defog | N/A | |
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| Privacy MaskingOff / On (4 Area, Rectangle)AudioAudioCompression6.711a/ G.711Mu/ AAC/ G.726NetworkEthernetRI-45 (10/100Base-T)ProtocolMTTP; HTTPs; TCP; ARP; MTSP; RTSP; RTSP; CDP; SMSP; PrivPA/V6; DDNS; PSPPDC; IPV4/V6; COS; UPPP,MTP; Bonjour; 802.1x; Multicast; ICMP; GMP, SNMPInteroperabilityONVIF, PSIA, CGIMax. User Access10 Users /20 UsersKedge StorageKaS Ica IPC for instant recording Mirco SD card 128G8Web ViewerE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, Easy4ipStart PhoneIOS, AndroidInterfaceVideo InterfaceVideo InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAlarmIchannel In: SmA SVDC 1 channel N: S00MA 12VDCFlectricalChannel Out: 300MA 12VDCPower SupplyDC12V, PE(802.3af)(Class 0) | Flip | 0°/90°/180°/270° | |
| AudioAudioCompressionG.711a/G.711Mu/AAC/G.726NetworkEthernetN-45 (10/100Base-T)ProtocolHTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; UPP, SDNS; DDNS; DPPOE; IPV4/V6; QoS; UPP, SNP; Bonjour; 802.1x; Multicast; ICMP; (GMP; SNMP)InteroperabilityONVIF, PSIA, GGIAutser AccessUnicast / MulticastKeb ViewerIou Sers / 20 UsersKeb ViewerIc, Chrome, Firefox, SafariManagement SoftwareIox, AndroidSmart PhoneIox, AndroidCertificationsCE (EN 60950-2000) U:UL5050-1 FC: FCP art 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceIntennel In/OutAudio InterfaceIchannel In/OutAuranIchannel In: SmA SVDC 1 channel Out: 300mA 12VDCFleetricalCI2V, PoE(802.36f)(Class 0) | Mirror | Off / On | |
| NameCompression6.711a/ G.711Mu/ AAC/ G.726NetworkEthernetRI-45 (10/100Base-T)EthernetRI-45 (10/100Base-T)Protocolbritter persection of the p | Privacy Masking | Off / On (4 Area, Rectangle) | |
| NetworkEthernetRI-45 (10/100Base-T)ProtocolRTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FD; DPCP; DPOP; DPOP; PPOP; PP | Audio | | |
| FunctionEthernetRI-45 (10/100Base-T)FrotocolHTTP; HTTP;, TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; OoS; UPnP;NTP; Bonjour; B02.1x; Multicast; ICMP; SIMPInteroperabilityONVIF, PSIA, CGIStreaming MethodUnicast / MulticastMax. User Access10 Users /20 UsersEdge StorageIc, Chrome, Firefox, SafariWeb ViewerEc, Chrome, Firefox, SafariManagement SoftwareSmart PS, DSS, Easy4ipSmart PhoneIOS, AndroidCertificationsEE (EN 60950:2000) ULU US0950-1 EC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceI.1 channel In/OutRS485N/AAlarm1 channel In: SmA 5VDC 1 channel out: 300mA 12VDCElectricalVietor SuppyPower SuppyDI 2U2/PE(802.3af)(Class 0) | Compression | G.711a/ G.711Mu/ AAC/ G.726 | |
| ProtocolHTTP; HTTP; TCP; ARP; RTSP; RTP; UDP; SMTP; SDNS; DDNS; PPPOE; IPv4/v6; QoS; UPPP;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, Easy4ipStartificationsCE (EN 60950:2000) UL:UIG0950-1 EC: FCC Part 15 Subpart BInterfaceN/AAduio InterfaceN/AAduio InterfaceN/AAlarm1/1 channel In/OutRs485N/AAlarm1channel In: SmA SVDC 2 channel Out: 300mA 12VDCFlectricalD12V, PoE(802.3af)(Class 0) | Network | | |
| ProtocolFTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPAP;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:UE00950-1 FC: FCC Part 15 Subpart BVideo InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAlarm1 channel In: SmA SVDC channel Out: 300mA 12VDCFlectricalD12V, 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) U.UL60950-1 FC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAuam1channel In: SmA SVDC 1 channel Out: 300mA 12VDCElectricalD12V, PoE(802.3af)(Class 0) | Protocol | FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; | |
| Nax. User Access10 Users /20 UsersMax. User Access10 Users /20 UsersEdge StorageNAS Local PC for instant recording Mirco SD card 128GBWeb Viewer1E, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, Easy4ipSmart Phone105, AndroidCertificationsCE (EN 60950:2000) UL:UL60950-1 | Interoperability | ONVIF, PSIA, CGI | |
| Fedge Storage NAS bccal PC for instant recording Mirco SD card 128GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, Easy4ip Smart Phone IOS, Android Certifications CE (EN 60950:2000) U:UL60950-1 FCC: FCC Part 15 Subpart B Interface N/A Audio Interface N/A Audio Interface N/A Audio Interface N/A Audio Interface I.1 channel In/Out Alarm 1 channel In: SmA 5VDC channel Out: 300mA 12VDC Electrical D12V, 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 InterfaceI/1 channel In/OutRS485N/AAlarm1 channel In: SmA SVDC 1 channel Out: 300mA 12VDCElectricalD12V, POE(802.3af)(Class 0) | Max. User Access | 10 Users /20 Users | |
| Nanagement SoftwareSmart PSS, DSS, Easy4ipSmart PhoneIOS, AndroidCertificationsCertificationsCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/ARS485N/AAlarm1 channel In: SmA 5VDC 1 channel Out: 300mA 12VDCElectricalPower SupplyDC12V, POE(802.3af)(Class 0) | Edge Storage | Local PC for instant recording | |
| Smart Phone IOS, Android Certifications Certifications Certifications CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Interface N/A Audio Interface N/A Audio Interface N/A RS485 N/A Alarm 1 channel In: SmA SVDC 1 channel Out: 300mA 12VDC Electrical DC12V, 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 RS485 N/A Alarm 1 channel In: SmA 5VDC 1 channel Out: 300mA 12VDC Electrical DC12V, PoE(802.3af)(Class 0) | Management Software | Smart PSS, DSS, Easy4ip | |
| Certifications CE (EN 60950:2000) UI:UL60950-1 FCC: FCC Part 15 Subpart B Interface N/A Video Interface N/A Audio Interface 1/1 channel In/Out RS485 N/A Alarm 1 channel In: SmA 5VDC 1 channel Out: 300mA 12VDC Electrical D12V, POE(802.3af)(Class 0) | Smart Phone | IOS, Android | |
| Certifications UL:UL60950-1 FCC: FCC Part 15 Subpart B Interface N/A Audio Interface 1/1 channel In/Out RS485 N/A Alarm 1 channel In: SmA 5VDC 1 channel Out: 300mA 12VDC Electrical D12V, 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 VOLTA | 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 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 | |
| Electrical 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-HDBW5231R-Z

| Environmental | |
|----------------------|---------------------------|
| Operating Conditions | -30° C ~ +60° C (-22° F ~ |
| Strorage Conditions | -30° C ~ +60° C (-22° F ~ |
| Ingress Protection | IP67 |
| Vandal Resistance | IK10 |
| | |

| Construction | |
|--------------|---------------------------|
| Casing | Metal |
| Dimensions | Ф122mm×88.9mm (4.8"×3.5") |
| Net Weight | 0.5kg (1.1lb) |
| Gross Weight | 0.58kg (1.29lb) |

Ordering Information

| Туре | Part Number | Description | | |
|---------------------------|-------------------------|-------------------------------------|--|--|
| 2MP camera | DH-IPC- HDBW5231RP-Z | 2MP IR Dome Network Camera,WDR, PAL | | |
| | DH-IPC- HDBW5231RN-Z | 2MP IR Dome Network Camera WDR,NTSC | | |
| | IPC-HDBW5231RP-Z | 2MP IR Dome Network Camera,WDR, PAL | | |
| | IPC-HDBW5231RN-Z | 2MP IR Dome Network Camera WDR,NTSC | | |
| Accessories (optional) | PFB203W | Wall mount | | |
| | PFA137 | Junction box | | |
| | PFB200C | In-ceiling mount | | |
| | PFA152 | Pole Mount | | |

Accessories

+140° F) / Less than 95% RH +140° F) / Less than 95% RH

Optional:

PFA152

Pole Mount



PFB203W

Wall Mount



PFA137

Junction Box





PFB200C In-ceiling Mount

| Junction Mount | Inceiling Mount | |
|----------------|------------------|--|
| PFA137 | PFB200C | |
| | | |
| Wall Mount | Pole Mount | |
| PFB203W | PFB203W + PFA152 | |
| | | |

Dimensions (mm/inch)





