

DH-IPC-HDW5231R-Z

2MP WDR IR Eyeball 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.

Environmental

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

- · 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
- \cdot 2.7mm ~12mm motorized lens
- \cdot Max. IR LEDs Length 50m
- ∙ IP67, PoE
- \cdot Micro SD card memory



camera is designed for extreme temperature environments. . Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For enviorments 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



Eco Savvy 3.0 | DH-IPC-HDW5231R-Z

Technical Specification

Frame Rate

Bit Rate Control

Bit Rate

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 Shutter 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	IR Distance		Distance up to 50m (164ft)		
IR On/Off Control		Auto/ Manual			
IR LEDs	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: 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	ation				
Pan/Tilt/Rotation	on Range	Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°			
Intelligence					
IVS (optional)		Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intell	Advanced Intelligent Functions		Face Detection		
Video	Video				
Compression		H.265+/H.265/H.264+/H.264			
Streaming Capability		3 Streams			
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/D1(704x576/704x480)/ VGA(640x480)/CIF(352x288/352x240)			
			Main Stream: 1080P(1~50/60fps)		

Sub Stream: D1(1~50/60fps) Third Stream: 1080P(1~25/30fps)

H.264: 24~9472Kbps H.265: 14~5632Kbps

CBR/VBR

Pay/NightAuto(CK) / Color / B/WBCModeBC / HC / WDR (1208)BC MotaAuto/Marual / Street Lamp/Outdoor/ManualGain ControlAuto/MarualNoise ReductionG / D / N (A Zone, Rectangle)Region of InterestG// O / A Zone, Rectangle)Breston Limbage StabilizationRight and Color (2000)Bright ZoomNADigtal ZoomG // O / A Zone, Rectangle)NirorO // O / J 207/20*MirorG// O / A Zone, Rectangle)MirorG // O / A Zone, Rectangle)MirorG // O / A Zone, Rectangle)NirorO // O / A Zone, Rectangle)NirorG // O / A Zone, Rectangle)ProbacingSil / J C / O / A Zone, Rectangle)NirorG // O / A Zone, Rectangle)ProbacingSil / J C / O / A Zone, Rectangle)ProbacingSil / J C / O / A Zone, Rectangle)ProbacingSil / J C / O / A Zone, Rectangle)ProbacingSil / J C / O / A Zone, Rectangle)ProbacingSil / J C / O / A Zone, Rectangle)ProbacingSil / J C / O / A Zone, Rectangle)ProbacingSil / J C / O / A Zone, Rectangle)ProbacingSil / J C / O / A Zone, Rectangle)ProbacingSil / J C / O / A Zone, Rectangle)ProbacingSil / J C / O / A Zone, Rectangle)ProbacingSil / J C / A Zone, Rectangle)RectangleSil / J C / O / A Zone, Rectangle)ProbacingSil / J C / Sil / J C / Sil / Sil / J C / Sil /					
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Noise ReductionJD NRNotion DetetionGif / On (4 Zone, Rectangle)Region of InterestGif / On (4 Zone)Region of InterestNASimart IRSupportDefogNADigital ZoomGif / OnDigital ZoomOff / OnMirrorOff / OnMirorOff / OnAudioOff / OnAudioOff / OnAudioStati JacomyProtocolOff / On (A rea, Rectangle)NetworkVProtocolStati JacomyProtocolNUN(P SNA (SO) (SO) (SO) (SO) (SO) (SO) (SO) (SO)	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 Stabilization (EIS)SupportSmart IRSupportDefogN/ADigital ZoomEKDigital ZoomOff / On (A rea, Rectangle)MirrorOff / On (A rea, Rectangle)AudioStatusAudioStatusProtocolRoll (Jonese-T)ProtocolNirror, CDS, DRS, RESP,	Noise Reduction	3D DNR			
IterationFileNASmart IRSupportDefogNADigital ZoomIKDigital ZoomOf/OnMirrorOf/OnPrivacy MaskingOff / On (A Area, Rectangle)AudioJaca StabilizationAudioJaca StabilizationProtocolScilla G.711MU/AAC/ G.726ProtocolNUTP; HTTPs; TCP; ARP; RTSP: PTP: UPD; SMP; Stapper St; PUV, MAG, Co.S.; UPP, MTP; StoPper StiPPer StiPPer StoPper StiPPer StiPer StiPPer StiPer S	Motion Detetion	Off / On (4 Zone, Rectangle)			
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Privacy MaskingOff / On (4 Area, Rectangle)AudioAudioCompressionG.711a/ G.711Mu/ AAC/ G.726NetworkEthernetRI-45 (10/100Base-T)ProtocolMITTP; HTTP; TCP; ARP, RTSP; RTP; UDP; SMTP; DHCP, DNS, DDNS, DPNS, PPOPC; DNAV, FY, DDNS, PMPCInteroperabilityONVIF, PSIA, GGIMax. User AccessUnicast / MulticastAdagement SoftwareE. Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, EASY4PipStreatificationsUS, AndroidCertificationsCE (E (N 60950-2000) ULU 60950-3InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AFilectricalN/AProver SupplyD(12V, PoE(802.3af)(Class 0)Prover SupplyD(12V, PoE(802.3af)(Class 0)	Flip	0°/90°/180°/270°			
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ProtocolHTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; TP; DHCP; DNS; 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, Easy4ipSmart PhoneIOS, AndroidCertificationsUl:ULG0950-1 EC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAuamN/AAlarmN/APower SupplyD(12V, PG[802.3af)(Class 0)	Network				
ProtocolFTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPNP;NTP; 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, AndroidCertificationsEE (EN 60950.2000) UL/UE0950-1 FC: FCC Part 15 Subpart BInterfaceN/AVideo InterfaceN/AAudio InterfaceN/AAlarmN/AAlarmN/APower SupplyD(212V, PCE(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:UE0950-1 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceN/ARs485N/AAudio InterfaceN/AFectricalN/APower SupplyD12V, 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) U: UL60950-1 FC: FCC Part 15 Subpart BInterfaceN/AVideo InterfaceN/ARs485N/AAdmin InterfaceN/AElectricalViAPower SupplyD(12V, PoE(802.3af)(Class 0)	Interoperability	ONVIF, PSIA, CGI			
Fage Storage NAS cocal 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) UL: UL60950-1 EC: FCC Part 15 Subpart B Interface Video Interface Video Interface N/A Audio Interface N/A RS485 N/A Alarm N/A Flectrical Video Scale (SCC) Scale	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/AVideo InterfaceBuilt-in MicRs485N/AAlarmN/AElectricalV/APower SupplyD12V, POE(802.3af)(Class 0)	Max. User Access	10 Users /20 Users			
NameNameManagement SoftwareSmart PSS, DSS, Easy4ipSmart PhoneIOS, AndroidCertificationsCE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AVideo InterfaceBuilt-in MicAudio InterfaceN/ARS485N/AAlarmN/AElectricalV/APower SupplyD12V, 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/AVideo InterfaceBuilt-in MicAudio InterfaceN/ARs485N/AAlarmN/AElectricalUL:ULAPower SupplyD(12V, 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 Video Interface N/A Audio Interface Built-in Mic RS485 N/A Alarm N/A Electrical UL2V, PoE(802.3af)(Class 0)	Management Software	Smart PSS, DSS, Easy4ip			
Certifications CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Interface N/A Video Interface N/A Audio Interface Built-in Mic RS485 N/A Alarm N/A Electrical V/A Power Supply D(12V, PoE(802.3af)(Class 0)	Smart Phone	IOS, Android			
CertificationsUL:UL60950-1 FCC: FCC Part 15 Subpart BInterfaceN/AAudio InterfaceBuilt-in MicRS485N/AAlarmN/AElectricalJC12V, PoE(802.3af)(Class 0)	Certifications				
Video InterfaceN/AAudio InterfaceBuilt-in MicRS485N/AAlarmN/AElectricalUlary Poe(802.3af)(Class 0)	Certifications	UL:UL60950-1			
Audio Interface Built-in Mic RS485 N/A Alarm N/A Electrical D12V, PoE(802.3af)(Class 0)	Interface				
RS485 N/A Alarm N/A Electrical DC12V, PoE(802.3af)(Class 0)	Video Interface	N/A			
Alarm N/A Electrical Power Supply DC12V, PoE(802.3af)(Class 0)	Audio Interface	Built-in Mic			
Electrical Power Supply DC12V, PoE(802.3af)(Class 0)	RS485	N/A			
Power Supply DC12V, PoE(802.3af)(Class 0)	Alarm	N/A			
	Electrical				
Power Consumption <8.5W	Power Supply	DC12V, PoE(802.3af)(Class 0)			
	Power Consumption	<8.5W			

Eco Savvy 3.0 | DH-IPC-HDW5231R-Z

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% RF		
Ingress Protection	IP67		
Vandal Resistance	N/A		
Construction			
Casing	Metal		
Dimensions	Ф122mm×104.9mm(4.8"×4.13")		
Net Weight	0.6Kg (1.32lb)		
Gross Weight	0.71Kg (1.57lb)		

Ordering Information

Туре	Part Number	Description	
2MP camera	DH-IPC- HDW5231RP-Z	2MP IR Eyeball Network Camera, WDR, PAL	
	DH-IPC- HDW5231RN-Z	2MP IR Eyeball Network Camera, WDR, NTSC	
	IPC-HDW5231RP-Z	2MP IR Eyeball Network Camera, WDR, PAL	
	IPC-HDW5231RN-Z	2MP IR Eyeball Network Camera, WDR, NTSC	
Accessories (optional)	PFB203W	Wall mount	
	PFA137	Junction box	
	PFA152	Pole Mount	

Accessories

Optional:



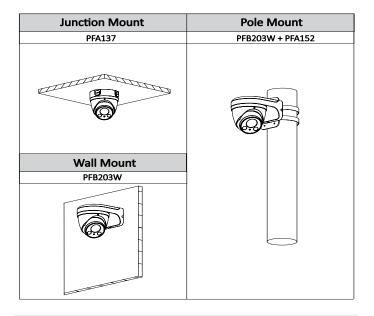


PFA152 Pole Mount

PFB203W

Wall Mount

PFA137 Junction Box



Dimensions (mm/inch)

