

DH-IPC-HDW5431R-Z

4MP 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

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 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 environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

- \cdot 1/3" 4Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@4Mp(2688×1520)
- · WDR(120dB), 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
- · IP67, PoE
- · Micro SD card memory











Protection

Supporting ±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



Technical Sp	pecification						Day/Night	Auto(ICR) / Color / B/W
Camera						BLC Mode	BLC / HLC / WDR(120dB)	
Image Sensor		1/3" 4Megapixel progressive scan CMOS					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		2688(H)x1520(V)					Gain Control	Auto/Manual
RAM/ROM		512MB/32MB					Noise Reduction	3D DNR
Scanning System		Progressive					Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.03Lux/F1.4 (Color,1/3s,30IRE) 0.3Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)					Electronic Image Stabilization (EIS)	N/A
S/N Ratio		More than 50dB					Smart IR	Support
IR Distance		Distance up to 50m (164ft)					Defog	N/A
IR On/Off Control		Auto/ Manual					Digital Zoom	16x
IR LEDs		2					Flip	0°/90°/180°/270°
Lens							Mirror	Off / On
Lens Type		Motorized/ Auto Iris(DC)					Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type		Board-in					Audio	
Focal Length		2.7mm~12mm					Compression	G.711a/ G.711Mu/ AAC/ G.726
Max. Aperture		F1.4					Network	
Angle of View		H: 100°~35° , V:54°~20°					Ethernet	RJ-45 (10/100Base-T)
Optical Zoom		4x						HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
Focus Control		Motorized					Protocol	
Close Focus Distance		0.3m					Interoperability	ONVIF, PSIA, CGI
	Lens	Detect	Observe	Recognize	Identify		Streaming Method	Unicast / Multicast
DORI Distance	W	68(223ft)	27m(89ft)	14m(46ft)	7m(23ft)		Max. User Access	10 Users /20 Users
Pan/Tilt/Rot	т	192m(630ft)	77m(253ft)	39m(128ft)	19m(62ft)		Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rotation		Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°					Web Viewer	IE, Chrome, Firefox, Safari
Intelligence	-						Management Software	Smart PSS, DSS, Easy4ip
IVS		Tripwire, Intrusion, Object Abandoned/Missing					Smart Phone	IOS, Android
Advanced Intell	igent Functions	Face Detection					Certifications	
Video								CE (EN 60950:2000)
Compression		H.265+/H.265/H.264+/H.264					Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability		3 Streams					Interface	
Resolution		4M(2688x1520)/3M(2304x1296)/1080P(192 0x1080) /1.3M(1280×960)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)					Video Interface	N/A
							Audio Interface	Built-in Mic
Frame Rate		Main Stream: 4M(1~25/30fps)					RS485	N/A
		Sub Stream: D1(1~25/30fps)					Alarm	N/A
		Third Stream: 720P(1~25/30fps)					Electrical	
Bit Rate Control		CBR/VBR					Power Supply	DC12V, PoE(802.3af)(Class 0)
Bit Rate		H.264: 24~10240Kbps H.265: 14~9984Kbps					Power Consumption	<8.5W

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
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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		
	DH-IPC- HDW5431RP-Z	4MP IR Eyeball Network Camera, WDR, PAL		
4140	DH-IPC- HDW5431RN-Z	4MP IR Eyeball Network Camera, WDR, NTSC		
4MP camera	IPC-HDW5431RP-Z	4MP IR Eyeball Network Camera, WDR, PAL		
	IPC-HDW5431RN-Z	4MP IR Eyeball Network Camera, WDR, NTSC		
	PFB203W	Wall mount		
Accessories (optional)	PFA137	Junction box		
	PFA152	Pole Mount		

Accessories

Optional:







PFA152 Pole Mount

PFB203W Wall Mount

PFA137 Junction Box

Junction Mount	Pole Mount
PFA137	PFB203W + PFA152
Wall Mount	
PFB203W	

Dimensions (mm/inch)





