

DH-IPC-HDW5830R-Z

8MP 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

4K technology

 $4 \mbox{K}$ 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 $4 \mbox{K}$ surveillance with four times the $1080 \mbox{P}$ resolution, presented to the user with more details . Under the same scenario by raising the pixels , reduce the camera cost.

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.

- · 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
- · Built-in Mic
- · Max. IR LEDs Length 50m
- · IP67,IK10, PoE









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 S	pecification					Bit Rate	H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps
Technical Specification Camera					Day/Night	Auto(ICR) / Color / B/W	
Image Sensor		1/2.5" 8Megapixel progressive scan CMOS				BLC Mode	BLC / HLC / DWDR
Effective Pixels		3840(H)x2160(V)				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
RAM/ROM		512MB/32MB				Gain Control	Auto/Manual
Scanning Syster	m	Progressive				Noise Reduction	3D DNR
		Auto/Manual, 1/3~1/100000s				Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed		0.05Lux/F1.4 (Color,1/3s,30IRE)				Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.2Lux/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 Contr	rol	Auto/ Manual				Digital Zoom	16x
IR LEDs		2				Flip	0°/90°/180°/270°
Lens						Mirror	Off / On
Lens Type		Motorized/ Au	uto 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:102°~39° , V:55°~22°				Ethernet	RJ-45 (10/100Base-T)
Optical Zoom Focus Control		4x Motorized				Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP;
Close Focus Dis	tance	0.3m				Internacion ilite	Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
	Lens	Detect	Observe	Recognize	Identify	Interoperability	ONVIF, PSIA, CGI
DORI Distance	W	91m(299ft)	36m(118ft)	18m(59ft)	9m(30ft)	Streaming Method	Unicast / Multicast
	Т	228m(748ft)	91m(299ft	46m(151ft)	23m(75ft)	Max. User Access	10 Users /20 Users NAS
Pan/Tilt/Rot	tation					Edge Storage	Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rotation	on Range	Pan:0°~360°;	Tilt:0°~78°; Ro	tation:0°~360'	•	Web Viewer	IE, Chrome, Firefox, Safari
Intelligence						Management Software	Smart PSS, DSS, Easy4ip
IVS		Tripwire, Intru	usion, Object A	Abandoned/M	issing	Smart Phone	IOS, Android
Advanced Intell	ligent Functions	Face Detection				Certifications	
Video Compression		H.265+/H.265	:/U 2641/U 26	. 1		Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
•	hili+v		7/11.204+/11.20) -1		Interface	
Streaming Capability		3 Streams 4K(3840×2160)/6M(3072×2048)/5M(2560×1920)/				Video Interface	N/A
Resolution		4A(3840×2160)/6M(3072×2046)/3M(2060×1920)/ 3M(2048x1536)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480) / VGA(640×480)/CIF(352×288/352×240)				Audio Interface	Built-in Mic
						RS485	N/A
Frame Rate		Main Stream: 4K(1~15fps)/3M(1~25/30fps)				Alarm	N/A
		Sub Stream: D1(1~25/30fps)				Electrical	
		Third Stream:	720P(1~25/3	Ofps)		Power Supply	DC12V, PoE(802.3af)(Class 0)
Bit Rate Contro	I	CBR/VBR				Power Consumption	<8.5W

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +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- HDW5830RP-Z	8MP IR Eyeball Network Camera, PAL		
8MP camera	DH-IPC- HDW5830RN-Z	8MP IR Eyeball Network Camera, NTSC		
SIVIP Camera	IPC-HDW5830RP-Z	8MP IR Eyeball Network Camera, PAL		
	IPC-HDW5830RN-Z	8MP IR Eyeball Network Camera, NTSC		
	PFB203W	Wall mount		
Accessories (optional)	PFA137	Junction box		
	PFA152	Pole Mount		

Accessories

Optional:







PFA137 Junction Box

PFB203W Wall Mount

PFA152 Pole Mount

Junction Mount	Pole Mount
PFA137	PFB203W + PFA152
Wall Mount	
PFB203W	

Dimensions (mm/inch)





