

DH-IPC-HDW5831R-ZE

8MP 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

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

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.

- 1/2.5" 8Megapixel progressive scan 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
- \cdot Max. IR LEDs Length 50m
- · Micro SD card memory, IP67, PoE



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.

Protection(IP67, wide voltage)

Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides effective protection for both the camera and its structure against lightning.IP67 is supported by the camera, which makes it suitable for both indoor and outdoor environments. 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.



Eco Savvy 3.0 | DH-IPC-HDW5831R-ZE

Technical Specification

Frame Rate

Bit Rate Control

Camera					
Image Sensor		1/2.5" 8Megapixel progressive scan CMOS			
Effective Pixels		3840(H)x2160(V)			
RAM/ROM		512MB/32MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.05Lux/F1.8 (Color,1/3s,30IRE) 0.2Lux/F1.8 (Color,1/30s,30IRE) 0Lux/F1.8(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 50m (164ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		2			
Lens					
Lens Type		Motorized/ Auto Iris(DC)			
Mount Type		Board-in			
Focal Length		2.7mm~12mm			
Max. Aperture		F1.8			
Angle of View		H:110°~40°, V:58°~23°			
Optical Zoom		4x			
Focus Control		Motorized			
Close Focus Distance		0.3m			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	85m(280ft)	34m(112ft)	17m(56ft)	8.5m(28ft)
	Т	228m(748ft)	91m(299ft	46m(151ft)	23m(75ft)
Pan/Tilt/Rot	tation				
Pan/Tilt/Rotati	on Range	Pan:0°~360°; ⁻	Filt:0°~78°; Ro	tation:0°~360'	0
Intelligence					
IVS		Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intell	Advanced Intelligent Functions		Face Detection		
Video					
Compression		H.265+/H.265/H.264+/H.264			
Streaming Capability		3 Streams			
Resolution		4K(3840×2160)/ 6M(3072×2048)/5M(3072×1728)/ 5M(2592×1944)/ 4M(2688×1520)/ 3M(2048×1536)/ 3M(2304×1296)/ 1080P(1920×1080)/1.3M(128 0×960)/ 720P(1280×720)/ D1(704×576/704×480)/ VGA(640×480)/ CIF(352×288/352×240)			
			Main Stream: 4K(1~15fps)/3M(1~25/30fps)		

Sub Stream: D1(1~25/30fps) Third Stream: 720P(1~25/30fps)

CBR/VBR

Bit Rate	H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps			
Day/Night	Auto(ICR) / Color / B/W			
BLC Mode	BLC / HLC / WDR			
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual			
Gain Control	Auto/Manual			
Noise Reduction	3D DNR			
Motion Detetion	Off / On (4 Zone, Rectangle)			
Region of Interest	Off / On (4 Zone)			
Electronic Image Stabilization (EIS)	N/A			
Smart IR	Support			
Defog	N/A			
Digital Zoom	16x			
Flip	0°/90°/180°/270°			
Mirror	Off / On			
Privacy Masking	Off / On (4 Area, Rectangle)			
Audio				
Compression	G.711a/ G.711Mu/ AAC/ G.726			
Network				
Ethernet	RJ-45 (10/100Base-T)			
Protocol	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			
Interoperability	ONVIF, PSIA, CGI			
Streaming Method	Unicast / Multicast			
Max. User Access	10 Users /20 Users			
Edge Storage	NAS Local 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				
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B			
Interface				
Video Interface	N/A			
Audio Interface	Built-in Mic			
R\$485	N/A			
Alarm	N/A			
Electrical				
Power Supply	DC12V, PoE(802.3af)(Class 0)			
Power Consumption	<8.5W			

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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	Φ122mm×104mm(4.8"×4.09")			
Net Weight	0.6Kg (1.32lb)			
Gross Weight	0.76Kg (1.67lb)			

Ordering Information

Туре	Part Number	Description		
8MP camera	DH-IPC- HDW5831RP-ZE	8MP IR Eyeball Network Camera, WDR, PAL		
	DH-IPC- HDW5831RN-ZE	8MP IR Eyeball Network Camera, WDR, NTSC		
	IPC-HDW5831RP-ZE	8MP IR Eyeball Network Camera, WDR, PAL		
	IPC-HDW5831RN-ZE	8MP IR Eyeball Network Camera, WDR, NTSC		
Accessories (optional)	PFB203W	Wall mount		
	PFA137	Junction box		
	PFA152-E	Pole Mount		
	LR1002	ePoE Over Coax Converter		

Accessories

Optional:









PFA137 Junction Box

PFB203W PFA152-E Wall Mount Pole Mount

LR1002 ePoE Over Coax Converter



Dimensions (mm/inch)





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