

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

 $4 \mbox{K}$ 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.

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 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
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~12mm motorized lens
- · Built-in Mic
- · 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 ±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.



Technical Sr	pecification					Bit Rate		H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps	
Technical Specification Camera				Day/Nig		Auto(ICR) / Color / B/W			
Image Sensor		1/2.5" 8Megapixel progressive scan CMOS				BLC Mo		BLC / HLC / WDR	
Effective Pixels		3840(H)x2160(V)				White B		Auto/Natural/Street Lamp/Outdoor/Manual	
RAM/ROM		512MB/32MB				Gain Co	ntrol	Auto/Manual	
Scanning Syster	m	Progressive					eduction	3D DNR	
		Auto/Manual, 1/3~1/100000s					Detetion	Off / On (4 Zone, Rectangle)	
Electronic Shutter Speed		0.05Lux/F1.4 (Color,1/3s,30IRE)					of Interest	Off / On (4 Zone)	
Minimum Illumination		0.2Lux/F1.4 (0 0Lux/F1.4(IR o		DIRE)		_	nic Image Stabilization	N/A	
S/N Ratio		More than 50	dB			Smart II	₹	Support	
IR Distance		Distance up to 50m (164ft)				Defog		N/A	
IR On/Off Contr	rol	Auto/ Manual				Digital Z	loom	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~12mn	n			Compre	ssion	G.711a/ G.711Mu/ AAC/ G.726	
Max. Aperture		F1.4				Netwo	ork		
Angle of View		H:110°~40°, V:58°~23°				Etherne	t	RJ-45 (10/100Base-T)	
Optical Zoom Focus Control		4x Motorized				Protoco	I	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP;	
Close Focus Dist	tance	0.3m				Interon	erability	Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP ONVIF, PSIA, CGI	
	Lens	Detect	Observe	Recognize	Identify		ng Method	Unicast / Multicast	
DORI Distance	W	85m(280ft)	34m(112ft)	17m(56ft)	8.5m(28ft)		er Access	10 Users /20 Users	
	Т	228m(748ft)	91m(299ft	46m(151ft)	23m(75ft)	IVIAX. OS	iei Access	NAS	
Pan/Tilt/Rot	ation					Edge Sto	orage	Local PC for instant recording Mirco SD card 128GB	
Pan/Tilt/Rotation		Pan:0°~360°;	Tilt:0°~78°; Ro	tation:0°~360	•	Web Vie	ewer	IE, Chrome, Firefox, Safari	
Intelligence						Manage	ement Software	Smart PSS, DSS, Easy4ip	
IVS		Tripwire, Intru	usion, Object A	Abandoned/M	lissing	Smart P	hone	IOS, Android	
Advanced Intell	igent Functions	Face Detectio	n			Certifi	cations		
Video Compression		H.265+/H.265	5/H 264+/H 26	54		Certifica	ations	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B	
·	hility	3 Streams	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Interfa	ace		
Streaming Capability		4K(3840×2160)/ 6M(3072×2048)/5M(3072×1728)/				Video Ir	terface	N/A	
Resolution		5M(2592×1944)/ 4M(2688×1520)/ 3M(2048×1536)/ 3M(2304×1296)/ 1080P(1920×1080)/1.3M(128				Audio Ir	terface	Built-in Mic	
			0x960)/ 720P(1280×720)/ D1(704×576/704×480)/ VGA(640×480)/ CIF(352×288/352×240)					N/A	
Frame Rate		Main Stream: 4K(1~15fps)/3M(1~25/30fps)				Alarm		N/A	
		Sub Stream: D1(1~25/30fps)				Electr	ical		
		Third Stream:	720P(1~25/3	Ofps)		Power S	upply	DC12V, PoE(802.3af)(Class 0)	
Bit Rate Control	I	CBR/VBR				Power 0	Consumption	<8.5W	

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Ф122mm×104mm(4.8"×4.09")
Net Weight	0.6Kg (1.32lb)
Gross Weight	0.76Kg (1.67lb)

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

Accessories

Optional:









PFA137 Junction Box

PFB203W Wall Mount

PFA152-E Pole Mount

LR1002 ePoE Over Coax Converter

Junction Mount	Pole Mount	
PFA137	PFB203W + PFA152-E	
Wall Mount		
PFB203W		
Dimensions (mm/inch)		





