

DH-IPC-HDW4231T-Z-S4

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 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 (0.005 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.

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@1080(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~13.5mm motorized lens
- · Max. IR LEDs Length 50m
- · IP67, PoE
- · Micro SD card memory 256GB













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.

Protection

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 2KV 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.



Technical Specification							Day/Night	Auto(ICR) / Color / B/W
Camera						BLC Mode	BLC / HLC / WDR(120dB)	
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		1920(H) x 1080(V)					Gain Control	Auto/Manual
RAM/ROM		256MB/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		0.005Lux/F1.6 (Color,1/3s,30IRE) 0.02Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6 (IR on)					Electronic Image Stabilization (EIS)	N/A
IR Distance		Distance up to 50m (164ft)					Smart IR	Support
IR On/Off Conti	rol	Auto/ Manual					Defog	N/A
IR On/Off Control		2					Digital Zoom	16x
							Flip	0°/90°/180°/270°
Lens		Motorized					Mirror	Off / On
Lens Type							Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type		Board-in					Audio	
Focal Length		2.7mm~13.5mm					Compression	G.711a/ G.711Mu/ AAC/ G.726
Max. Aperture		F1.6					Network	
Angle of View		H: 109°~27° , V:59°~16°					Ethernet	RJ-45 (10/100Base-T)
Optical Zoom Aperture Type		5x Fixed					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;
Close Focus Dis	tance	0.8m						SFTP; RTMP; NFS; SMB
	Lens	Detect	Observe	Recognize	Identify		Interoperability	ONVIF, CGI, Milstone, Genetec
DORI Distance	W	44m(144ft)	18m(59ft)	9m(30ft)	4m(13ft)		Streaming Method	Unicast / Multicast
	Т	153m(502ft)	61m(200ft)	30m(98ft)	15m(49ft)		Max. User Access	10 Users /20 Users
Pan/Tilt/Rotation		Dan O'N2CO', Tilk O'N70', Detation O'N2CO'					Edge Storage	NAS Local PC for instant recording Mirco SD card 256GB
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 (optional)		Tripwire, Intrusion, Object Abandoned/Missing					Smart Phone	IOS, Android
	ligent Functions	Face Detection					Certifications	
Video Compression		H.265+/H.265/H.264+/H.264					Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability		3 Streams					Interface	
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/D1(704x576/704x480)/					Video Interface	N/A
		VGA(640×480)/CIF(352×288/352×240)					Audio Interface	Built-in Mic
Frame Rate		Main Stream: 1080P(1~50/60fps)					RS485	N/A
		Sub Stream: D1(1~25/30fps)					Alarm	N/A
		Third Stream: 1080P(1~14/4fps)					Electrical	
Bit Rate Contro	I	CBR/VBR					Power Supply	DC12V, PoE(802.3af)(Class 0)
Bit Rate		H.264: 32~10240Kbps H.265: 12~6144Kbps					Power Consumption	<7.5W

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×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- HDW4231TP-Z-S4	2MP IR Eyeball Network Camera, WDR, PAL		
2140	DH-IPC- HDW4231TN-Z-S4	2MP IR Eyeball Network Camera, WDR, NTSC		
2MP camera	IPC-HDW4231TP- Z-S4	2MP IR Eyeball Network Camera, WDR, PAL		
	IPC-HDW4231TN- Z-S4	2MP IR Eyeball Network Camera, WDR, NTSC		
	PFB203W	Wall mount		
Accessories (optional)	PFA137	Junction box		
	PFA152-E	Pole Mount		

Accessories

Optional:







PFA152-E Pole Mount

PFB203W Wall Mount

PFA137 Junction Box

Junction Mount	Pole Mount
PFA137	PFB203W+PFA152-E
Wall Mount	
PFB203W	

Dimensions (mm[inch])





