

DH-IPC-HDBW4231E-Z-S4

2MP WDR IR Dome 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

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 (0.005lux).

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

- · 1/2.8" 2Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~13.5mm motorized lens
- · Max. IR LEDs Length 50m
- · IP67, IK10, PoE
- · Micro SD card memory 256GB















complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For enviorments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times

camera is designed for extreme temperature environments. The camera

Protection

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV 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 S	pecification					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 Cont	IR On/Off Control		Ī			Defog	N/A
IR LEDs						Digital Zoom	16x
Lens		3				Flip	0°/90°/180°/270°
Lens Type		Motorized				Mirror	Off / On
		Board-in				Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type						Audio	
Focal Length Max. Aperture		2.7mm~13.5mm F1.6				Compression	G.711a/ G.711Mu/ AAC/ G.726
Angle of View		H: 110°~27° , V:59°~16°				Network	
Optical Zoom		5x				Ethernet	RJ-45 (10/100Base-T)
Aperture Type		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				Interoperability	ONVIF, PSIA, CGI
DORI	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
Distance	W	44m(144ft)	18m(59ft)	9m(30ft)	4m(13ft)	Max. User Access	10 Users /20 Users
T Pan/Tilt/Rotation		153m(502ft)	61m(200ft)	31m(102ft)	15m(49ft)	Edge Storage	NAS Local PC for instant recording Mirco SD card 256GB
Pan/Tilt/Rotati	on Range	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence						Management Software	Smart PSS, DSS, Easy4ip
IVS		Tripwire, Intru	usion, Object /	Abandoned/M	issing	Smart Phone	IOS, Android
Advanced Intel	ligent Functions	Face Detection				Certifications	
Video						Certifications	CE (EN 60950:2000) UL:UL60950-1
Compression		H.265+/H.265/H.264+/H.264				Certifications	FCC: FCC Part 15 Subpart B
Streaming Capa	ability	3 Streams				Interface	
Resolution		1080P(1920x1080)/1.3M(1280×960)/				Video Interface	N/A
Resolution		720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)				Audio Interface	1/1 channel In/Out
Frame Rate		Main Stream: 1080P(1~25/30fps)				RS485	N/A
		Sub Stream: D1(1~25/30fps)				Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
		Third Stream: 1080P(1~5/0fps)				Floatrical	Tonamici Out. SOUTHA 12VDC
Bit Rate Control		CBR/VBR				Electrical	DC43W D-F/002 2 (Well of
Bit Rate		H.264: 32~10240Kbps H.265: 12~6144Kbps			bps	Power Supply	DC12V, PoE(802.3af)(Class 0)
						Power Consumption	<12.1W

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +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	IK10

Construction

Casing	Metal
Dimensions	Ф159.1mm×117.9mm (6.26"×4.64")
Net Weight	0.95kg (2.09lb)
Gross Weight	1.2kg (2.65lb)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC- HDBW4231EP- Z-S4	2MP IR Dome Network Camera, WDR, PAL				
ANAD como ro	DH-IPC- HDBW4231EN- Z-S4	2MP IR Dome Network Camera, WDR,NTSC				
4MP camera	IPC- HDBW4231EP- Z-S4	2MP IR Dome Network Camera,WDR,PAL				
	IPC- HDBW4231EN- Z-S4	2MP IR Dome Network Camera, WDR,NTSC				
	PFA138	Junction Box				
	PFB210W	Wall mount				
Accessories	PFB201C	In-ceiling mount				
(optional)	PFB300C	Ceiling mount				
	PFA152-E	Pole mount				
	PFA101	Mount adapter				

Accessories

Optional:







PFA138 Junction box

PFB210W n box Wall mount

PFA152-E Pole mount







PFA101 Mount adapter

PFB300C Ceiling mount

PFB201C In-ceiling mount

In-ceiling Mount	Junction Mount	Pole Mount		
PFB201C	PFA138	PFB210W+PFA152-E		
0				
Ceiling Mount	Wall Mount			
PFA101+PFB300C	PFB210W (Indoor)	PFB210W (Outdoor)		

Dimensions (mm/inch)





