

DH-IPC-HDBW5231E-ZE

2MP WDR IR Dome Network Camera





System Overview

With upgraded H.265 encoding technology, Eco-savvy series brings high efficient video compression capability. It can save bandwidth and storage. Meanwhile, the series features starlight, smart IR technology and intelligent image analysis techniques. This series supports reminder function, meanwhile fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

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.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.006lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 50/60fps@1080(1920×1080)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~13.5mm motorized lens
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50m
- · Micro SD memory, IP67, IK10, PoE+















Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Protection(IP67, IK10, wide voltage)

The camera allows for $\pm 30\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.



Technical Sp	ecification					Day/Night	Auto(ICR) / Color
Camera					BLC Mode	BLC/HLC/WDR(1	
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS				White Balance	Auto/Natural/Stre
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, F
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.006Lux/F1.4 (Color,1/3s,30IRE) 0.05Lux/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 Contro	ol	Auto/ Manual				Digital Zoom	16x
IR LEDs		3				Flip	0°/90°/180°/270°
Lens						Mirror	Off/On
Lens Type		Motorized/ A	.uto Iris(DC)			Privacy Masking	Off / On (4 Area, R
Mount Type		Board-in				Audio	
Focal Length		2.7mm~13.5r	mm			Compression	G.711a/G.711Mu/
Max. Aperture		2./mm~13.5mm F1.4				Network	
Angle of View		H: 101°~31°, V:54°~17°				Ethernet	RJ-45 (10/100Base
Optical Zoom		5x				Protocol	HTTP; HTTPs; TCP FTP; DHCP; DNS; I UPnP;NTP; Bonjoi
Focus Control Close Focus Dist	tanco	Motorized 0.3m				1.00	IGMP; SNMP
Close Focus Dist			Observe	Recognize	Idontify	Interoperability	ONVIF, PSIA, CGI
DORI	Lens	Detect		_	Identify	Streaming Method	Unicast / Multicas
Distance	W	44m(144ft)	18m(59ft)	9m(29ft)	4m(13ft)	Max. User Access	10 Users / 20 User NAS
Pan/Tilt/Rot	T tation	143m(469ft)	5/m(18/ft)	28m(92ft)	14m(46ft)	Edge Storage	Local PC for instal Mirco SD card 128
Pan/Tilt/Rotatio		Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°				Web Viewer	IE, Chrome, Firefo
Intelligence	Ü					Management Software	Smart PSS, DSS, Ea
IVS		Tripwire, Intrusion, Object Abandoned/Missing				Smart Phone	IOS, Android
Advanced Intelli	igent Functions	Face Detection				Certifications	
Video	J 7 dilotions	Tace Detection				Certifications	CE (EN 60950:200 UL:UL60950-1 FCC: FCC Part 15 S
Compression		H.265+/H.265/H.264+/H.264				Interface	
Streaming Capability		3 Streams				Video Interface	1 Port(For adjustn
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)				Audio Interface	1/1 channel In/Ou
Frame Rate		Main Stream: 1080P (1~50/60fps)				RS485	N/A
		Sub Stream: D1(1~50/60fps)				Alarm	1 channel In: 5mA 1 channel Out: 30
		Third Stream: 1080P(1~25/30fps)				Electrical	
Bit Rate Control		CBR/VBR				Power Supply	DC12V, AC24V, Pol
Bit Rate		H.264: 24~94	72Kbps H.	265: 14~5632	Kbps	Power Consumption	<15W

Eco Savvy 3.0 | DH-IPC-HDBW5231E-ZE

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	IK10

Construction

Casing	Metal
Dimensions	Φ159.1mm×117.9mm (6.26"×4.64")
Net Weight	0.95kg (2.09lb)
Gross Weight	1.20kg (2.65lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HDBW5231EP-ZE	2MP IR Dome NetworkCamera,WDR, PAL			
2MP camera	DH-IPC- HDBW5231EN-ZE	2MP IR Dome Network Camera, WDR,NTSC			
Zivii cumeru	IPC- HDBW5231EP-ZE	2MP IR Dome Network Camera,WDR, PAL			
	IPC- HDBW5231EN-ZE	2MP IR Dome Network Camera WDR,NTSC			
	PFA138	Junction Box			
	PFB302S	Wall mount			
	PFB201C	In-ceiling mount			
Accessories (optional)	PFB300C	Ceiling mount			
	PFA152-E	Pole mount			
	PFA101	Mount adapter			
	LR1002	ePoE Over Coax Converter			

Accessories

Optional:









Wall mount

PFA138 Juntion Box

PFB201C

LR1002 In-ceiling mount ePoE Over Coax Converter







PFB300C Ceiling mount

PFA152-E Pole mount

PFA101 Mount adapter

In-ceiling Mount	Junction Mount	Pole Mount	
PFB201C	PFA138	PFA101 + PFB302S + PFA152	
Ceiling Mount	Wall Mount		
PFA101 + PFB300C	PFA101 + PFB302S		

Dimensions (mm/inch)





