

DH-IPC-HDBW5231E-ZE-HDMI

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

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.

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.

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

- · 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
- · HDMI 1.4a support
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50m
- · Micro SD memory, IP67, IK10, PoE+















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 ±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 S _I	pecification							H.264: 24~ 9472Kbps
Camera							Bit Rate	H.265: 14~ 5632Kbps
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS					Day/Night	Auto(ICR) / Color / B/W
Effective Pixels		1920(H)x1080(V)					BLC Mode	BLC / HLC / WDR(120dB)
RAM/ROM		512MB/32MB					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Scanning Syster	m	Progressive					Gain Control	Auto/Manual
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					Noise Reduction	3D DNR
Liectronic shatter speed		0.006Lux/F1.6 (Color,1/3s,30IRE)					Motion Detection	Off / On (4 Zone, Rectangle)
Minimum Illumination		0.006Lux/F1.6 (Color,1/30s,30IRE) 0.05Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6 (IR on)					Region of Interest	Off / On (4 Zone)
C/N Patio		Less than 50dB					Electronic Image Stabilization	N/A
S/N Ratio							(EIS)	
IR Distance		Distance up to 50m(164ft)					Smart IR	Support
IR On/Off Control		Auto/Manual					Defog	N/A
IR LEDs		3					Digital Zoom	16x
Lens							Flip	0°/90°/180°/270°
Lens Type		Motorized					Mirror	Off / On
Mount Type Focal Length		Board-in 2.7~13.5mm motorized					Privacy Masking	Off / On (4 Area, Rectangle)
Max. Aperture		F1.6					Audio	
Angle of View		H: 101° ~ 31°, V: 54° ~ 17°					Compression	G 711a/G 711Mu/ AAC/G 726
Optical Zoom		5x				Compression G.711a/ G.711Mu/ AAC/ G.726		
Focus Control		Motorized					Network	
Close Focus Dis		0.3m(0.98ft)					Ethernet	RJ-45 (10/100Base-T)
DORI	Lens W	Detect 44m(144ft)	Observe 18m(59ft)	Recognize 9m(29ft)	Identify 4m(13ft)		Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS
Distance	T	143m(469ft)	57m(187ft)	28m(92ft)	14m(46ft)			
Pan/Tilt/Rot	tation						Interoperability	ONVIF Profile S&G, API
Pan/Tilt/Rotati	on Range	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°					Streaming Method	Unicast / Multicast
Intelligence							Max. User Access	10 Users/20 Users
IVS							Edge Storage	NAS
103		Tripwire, Intrusion, Object Abandoned/Missing						Local PC for instant recording Micro SD card 128GB
Advanced Intell	igent Functions	Face Detection					Web Viewer	IE, Chrome, Firefox, Safari
Video							Management Software	Smart PSS, DSS, Easy4ip
Compression		H.265/H.264/H.264B/H.264H/MJPEG(sub stream)					Smart Phone	IOS, Android
Smart Codec		Support H.265+/H.264+					Certifications	
Streaming Capability		3 Streams					certifications	CE (EN 60950:2000)
Resolution		1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480)/ CIF(352×288/352×240)					Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Frame Rate		Main Stream: 1080P(1~25/30fps)						
		Sub Stream: D1 (1 ~ 25/30fps)						
		Third Stream: 1080P(1~25/30fps)						
Bit Rate Contro	I	CBR/VBR						

Interface

Video Interface	1 port(HDMI 1.4a)
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12V

Electrical

Power Supply	DC12V, AC24V, PoE(802.3at)(Class 4)
Power Consumption	DC12V:4.4W 12.3W(IR on) PoE:5.0W 11.8W(IR on)

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Storage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Ordering Information

PFA152-E

PFA101

Casing	Metal
Dimensions	Ф159.1mm*117.9mm
Net Weight	0.95Kg (2.09lb)
Gross Weight	1.2Kg (2.65lb)

Part Number Type Description DH-IPC-HDBW5231EP-2MP IR Dome Network Camera, ZE-HDMI WDR, PAL DH-IPC-HDBW5231EN-2MP IR Dome Network Camera, ZE-HDMI WDR,NTSC 2MP camera IPC-HDBW5231EP-ZE-2MP IR Dome Network Camera, HDMI WDR, PAL IPC-HDBW5231EN-ZE-2MP IR Dome Network Camera, HDMI WDR,NTSC PFA138 Junction Box PFB210W Wall mount PFB201C In-ceiling mount Accessories (optional) PFB300C Ceiling mount

Accessories

Optional:







PFA138 Junction box

PFB210W Wall mount

PFA152-E Pole mount









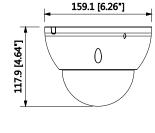
PFA101 Mount adapter

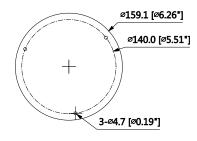
Ceiling mount

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)





Pole mount

Mount adapter