

DH-IPC-HDBW5431E-Z5E

4MP 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.

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

- · 1/3" 4Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@4Mp(2688×1520)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS)
 & DMSS
- · 7mm ~35mm 5X zoom lens
- · Max. IR LEDs Length 100m
- · IP67,IK10, PoE+
- · Micro SD card memory



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.





Eco Savvy 3.0 | DH-IPC-HDBW5431E-Z5E

Technical Specification

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Camera					
Image Sensor		1/3" 4Megapixel progressive scan CMOS			
Effective Pixels		2688(H)x1520(V)			
RAM/ROM	RAM/ROM		512MB/32MB		
Scanning Syste	m	Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.03Lux/F1.4 (Color,1/3s,30IRE) 0.3Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 100m (328ft)			
IR On/Off Cont	rol	Auto/ Manual			
IR LEDs		3			
Lens					
Lens Type		Motorized/ Auto Iris(HALL)			
Mount Type		Board-in			
Focal Length	Focal Length		7mm~35mm		
Max. Aperture		F1.4			
Angle of View		H: 33°~13°, V:20°~6°			
Optical Zoom		5x			
Focus Control	Focus Control		Motorized		
Close Focus Distance		0.4m			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	190m(623ft)	76m(249ft)	38m(124ft)	19m(62ft)
	т	620m(2034ft)	248m(813ft)	124m(406ft)	62m(203ft)
Pan/Tilt/Ro	tation				
Pan/Tilt/Rotati	on Range	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°			
Intelligence					
IVS		Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intelligent Functions		Face Detection			
Video					
Compression		H.265+/H.265/H.264+/H.264			
Streaming Capability		3 Streams			
Resolution		4M(2688x1520)/3M(2304x1296)/ 1080P(1920x1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)			
Frame Rate		Main Stream: 4M(1~25/30fps)			
		Sub Stream: D1(1~25/30fps)			

Third Stream: 720P(1~25/30fps)

CBR/VBR

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Power Supply DC12V, AC24V, PoE+(802.3at)(Class 4)	Alarm					
Power Consumption <15W	Power Supply	DC12V, AC24V, PoE+(802.3at)(Class 4)				
	Power Consumption	<15W				

TIDMS

Bit Rate Control

Eco Savvy 3.0 | DH-IPC-HDBW5431E-Z5E

Environmental

Operating Conditions	-30° C \sim +60° C (-22° F \sim +140° F) / Less than 95% RH
Strorage Conditions	-30° C \sim +60° C (-22° F \sim +140° F) / Less than 95% RH
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
4MP camera	DH-IPC- HDBW5431EP-Z5E	4MP IR Dome Network Camera, WDR, PAL
	DH-IPC- HDBW5431EN- Z5E	4MP IR Dome Network Camera, WDR,NTSC
	IPC- HDBW5431EP-Z5E	4MP IR Dome Network Camera,WDR,PAL
	IPC- HDBW5431EN- Z5E	4MP IR Dome Network Camera, WDR,NTSC
Accessories (optional)	PFA138	Junction Box
	PFB302S	Wall mount
	PFB201C	In-ceiling mount
	PFB300C	Ceiling mount
	PFA152-E	Pole mount
	PFA101	Mount adapter
	LR1002	ePoE Over Coax Converter

Accessories

Wall mount

PFB300C

Ceiling mount

Optional:







PFA138 Juntion Box

PFB201C In-ceiling mount

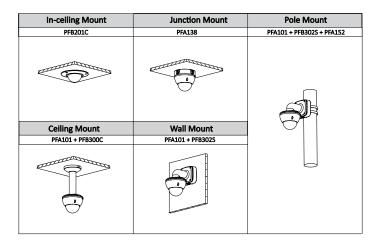
LR1002 ePoE Over Coax Converter



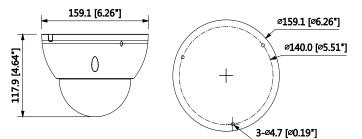


PFA152-E Pole mount

PFA101 Mount adapter



Dimensions (mm/inch)





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