

# DH-IPC-HDBW5431EP-Z

4MP WDR IR Dome Network Camera



· 25/30fps@4Mp(2688×1520)

· Multiple network monitoring: Web viewer, CMS(DSS/PSS) & **DMSS** 

· WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC

- · 2.7mm ~12mm motorized lens
- · Max. IR LEDs Length 50m
- · IP67,IK10, PoE
- · Micro SD card memory







· 1/3" 4Megapixel progressive scan CMOS · H.265&H.264 triple-stream encoding







# **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**

# 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 intelliegence 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 camera is designed for extreme temperature environments. The camera 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

#### Protection

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV 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.

#### HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream, encoding quality , and the delay between algorithm complexity , optimize settings specific contents include: Improve compression efficiency, improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay, reduce complexity, etc



Technical Sn	ecification						Day/Night	Auto(ICR) / Color / B/W
Technical Specification  Camera					BLC Mode	BLC / HLC / WDR(120dB)		
Image Sensor		1/3" 4Megapixel progressive scan CMOS					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		2688(H)x1520(V)					Gain Control	Auto/Manual
RAM/ROM		512MB/32MB					Noise Reduction	3D DNR
Scanning System		Progressive					Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shutt		Auto/Manual, 1/3~1/100000s					Region of Interest	Off / On (4 Zone)
Minimum Illumii		0.03Lux/F1.4 (Color,1/3s,30IRE) 0.3Lux/F1.4 (Color,1/30s,30IRE)					Electronic Image Stabilization (EIS)	N/A
S/N Ratio		OLux/F1.4(IR on)					Smart IR	Support
S/N Ratio		More than 50dB					Defog	N/A
IR Distance		Distance up to 50m (164ft)					Digital Zoom	16x
IR On/Off Control		Auto/ Manual					Flip	0°/90°/180°/270°
IR LEDs		3					Mirror	Off / On
Lens							Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type		Motorized/ Auto Iris(DC)					Audio	
Mount Type Focal Length			Board-in				Compression	G.711a/ G.711Mu/ AAC/ G.726
		2.7mm~12mm					Network	
Max. Aperture		F1.4					Ethernet	RJ-45 (10/100Base-T)
Angle of View Optical Zoom		H: 100°~35°, V:54°~20°  4x					Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP;
Focus Control		Motorized						Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
Close Focus Dist	ance	0.3m					Interoperability	ONVIF, PSIA, CGI
	Lens	Detect	Observe	Recognize	Identify		Streaming Method	Unicast / Multicast
DORI Distance	W	68(223ft)	27m(89ft)	14m(46ft)	7m(23ft)		Max. User Access	10 Users /20 Users
	Т	192m(630ft)	77m(253ft)	39m(128ft)	19m(62ft)		Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rota	ation					Web Viewer	IE, Chrome, Firefox, Safari	
Pan/Tilt/Rotatio	n Range	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°					Management Software	Smart PSS, DSS, Easy4ip
Intelligence							Smart Phone	IOS, Android
IVS	IVS		Tripwire, Intrusion, Object Abandoned/Missing				Certifications	
Advanced Intelli Video	Advanced Intelligent Functions		Face Detection				Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Compression		H.265+/H.265/H.264+/H.264					Interface	rec. recrait 13 Subpart B
Streaming Capal	bility	3 Streams					Video Interface	1 Port(For adjustment only)
		4M(2688x1520)/3M(2304x1296)/1080P(1920x1080)/					Audio Interface	1/1 channel In/Out
Resolution		1.3M(1280×960)/720P(1280×720)/ D1(704×576/704×480)/ VGA(640×480)/ CIF(352×288/352×240)					RS485	N/A
		Main Stream: 4M(1~25/30fps)					Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Frame Rate		Sub Stream: D1(1~25/30fps)					Electrical	
		Third Stream: 720P(1~25/30fps)					Power Supply	DC12V AC24V PoF/R02 2afV/Class 01
Bit Rate Control		CBR/VBR				***	DC12V, AC24V, PoE(802.3af)(Class 0)	
Bit Rate		H.264: 24~10240Kbps H.265: 14~9984Kbps				Power Consumption	<12.5W	

# Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	IK10

## Construction

Casing	Metal
Dimensions	Ф159.1mm×117.9mm (6.26"×4.64")
Net Weight	0.89kg (1.96lb)
Gross Weight	1.13kg (2.49lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HDBW5431EP-Z	4MP IR Dome Network Camera, WDR, PAL			
4MP camera	DH-IPC- HDBW5431EN-Z	4MP IR Dome Network Camera, WDR,NTSC			
4IVIP Calliera	IPC- HDBW5431EP-Z	4MP IR Dome Network Camera,WDR,PAL			
	IPC- HDBW5431EN-Z	4MP 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 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)





