

DH-IPC-HDBW5431E-Z5

4MP 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

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, People Counting, 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

- · 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













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



Effective Pixels	Technical Specification					Day/Night	Auto(ICR) / Color / B/W	
Effective Pixels 2689/04/20/01 30 30 30 30 30 30 30	Camera						BLC Mode	BLC/HLC/WDR(120dB)
Signature Signature Progressive Progressive Monton Detection Oil / On (47ams, Rectangle)	Image Sensor		1/3" 4Megapixel progressive scan CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Seaming System Progressive Progressive Motion Detection Off / On /4 Zone, Rectangle)	Effective Pixels		2688(H)x1520(V)				Gain Control	Auto/Manual
Region of Interest Off / On 4 Zone	RAM/ROM		512MB/32MB				Noise Reduction	3D DNR
Minimum Illium Illium Illium Illium Illium O.03	Scanning System		Progressive				Motion Detetion	Off / On (4 Zone, Rectangle)
Minimum Illumination	Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Region of Interest	Off / On (4 Zone)
R Distance	Minimum Illumination		0.3Lux/F1.4 (Color,1/30s,30IRE)				_	
R Distance Distance up to 100m (328ft) Digital Zoom 16k	S/N Ratio							
R On/Off Control Auto/ Manual Fip Oy90/1807/270"	IR Distance		Distance up to 100m (328ft)				Defog	N/A
File							Digital Zoom	16x
Lens Type							Flip	0°/90°/180°/270°
Motorized / Auto risi HALL							Mirror	Off / On
Audio			Motorized/Auto Iric/HAII)				Privacy Masking	Off / On (4 Area, Rectangle)
Compression G.711a/G.71a G.711a G.711a G.711a G.71a G.7							Audio	
Max. Aperture F1.4 Angle of View H: 32**10**, V:18**-6* Optical Zoom 5x Focus Control Motorized Close Focus Distance 0.4m Lens Detect Observe Recognize Identify Streaming Method Unicast / Multicast in Configuration Range Intelligence T 620m(2034ft) 248m(813ft) 124m(406ft) 62m(203ft) Max. User Access 10 Users / Nas Local PC for instant recording Mirros Do card 128GB Pan/Tilt/Rotation Range Pan.0**355*, Tilt:0**65*, Rotation.0**355* Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligente Functions Face Detection Video Tripwire, Intrusion, Object Abandoned/Missing Configuration Pan/Tilty Resolution Pan/Tilty Resolution Pan/Tilty Pa							Compression	G.711a/ G.711Mu/ AAC/ G.726
Angle of View H: 32**10**, V:18**-6* Optical Zoom 5x Focus Control Motorized Close Focus Distance 0.4m Lens Detect Observe Recognize Identify Streaming Method Unicast, Multicast (GMF, SMMP) DORI Distance T 620m(2034tr) 248m(813ft) 124m(406ft) 62m(203ft) 62m(2	-						Network	
Dotical Zoom							Ethernet	RJ-45 (10/100Base-T)
Close Focus Distance	_						Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPpP:NTP: Boniour: 802.1x: Multicast: ICMP:
Lens	Focus Control		Motorized					
DOR	Close Focus Distance		0.4m				Interoperability	ONVIF, PSIA, CGI
Distance		Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
Frame Rate		W	190m(623ft)	76m(249ft)	38m(124ft)	19m(62ft)	Max. User Access	10 Users /20 Users
Pan/Tilt/Rotation 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 Adv[2688x1520]/3M(2304x1296]/1080P(13920x1080)/1.3M(1280×960)/720P(1280×720)/DL(704x576/704x480)/VGA(640×480)/CIF(352×288/352×240) Main Stream: AM(1~25/30fps) Frame Rate Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, Easy4ip Smart Phone IOS, Android Certifications Certifications CE (EN 60950:2000) U1:U1.60950-1 FCC: FCC Part 15 Subpart B Interface Video Interface Video Interface 1/Port(For adjustment only) Audio Interface 1/1 channel in/Out RS485 N/A Alarm 1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC Electrical Third Stream: 720P(1~25/30fps) Power Supply DC12V, AC24V, PoE(802.3af)(Class 0)	Dan/Tilt/Pota	·	620m(2034ft)	248m(813ft)	124m(406ft)	62m(203ft)	Edge Storage	Local PC for instant recording
Intelligence IVS Tripwire, Intrusion, Object Abandoned/Missing Advanced Intelligent Functions Face Detection Video Certifications Certifications Certifications Certifications Certifications Certifications Interface Interface Video Interface Video Interface Video Interface Interface Interface Video Interface Interface Video Interface Interface Interface Video Interface Interface Interface Video Interface Interface Interface Video Interface Interface Interface Interface Interface Video Interface Interface Interface Interface Interface Interface Video Interface Interface Interface Interface Interface Interface Interface Interface Interface Video Interface Inter			Dan O'NGEF', Tilk O'NCF', Dataking O'NGFF'				Web Viewer	IE, Chrome, Firefox, Safari
NS Tripwire, Intrusion, Object Abandoned/Missing Certifications		ii Kalige	ran:u ~355 ; Hit:U ~65"; Rotation:0"~355"				Management Software	Smart PSS, DSS, Easy4ip
Certifications			Trimuira lateraisa Oli 141 177				Smart Phone	IOS, Android
Video Certifications CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B Compression H.265+/H.265/H.264+/H.264 Interface Streaming Capability 3 Streams Video Interface 1 Port(For adjustment only) Resolution 4M(2688x1520)/3M(2304x1296)/ 1080P(1920x1080)/1.3M(1280×960)/ 720P(1280x720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240) Audio Interface 1/1 channel In/Out 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, PoE(802.3af)(Class 0)							Certifications	
Compression H.265+/H.265/H.264+/H.264 Interface Streaming Capability 3 Streams Video Interface 1 Port(For adjustment only) Resolution 4M(2688x1520)/3M(2304x1296)/ 1080P(1920x1080)/1.3M(1280×960)/ 720P(1280x720)/D1(704x576/704x480)/ VGA(640×480)/CIF(352×288/352×240) Audio Interface 1/1 channel In/Out 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, PoE(802.3af)(Class 0)			Face Detection				Certifications	UL:UL60950-1
Streaming Capability 3 Streams Video Interface 1 Port(For adjustment only)	Compression		H.265+/H.265/H.264+/H.264				Interface	rec. rec rait 13 Subpart b
## Audio Interface	Streaming Capability		3 Streams					1 Port(For adjustment only)
T20P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240) RS485 N/A	Resolution		1080P(1920x1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/					
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, PoE(802.3af)(Class 0)								
Frame Rate Sub Stream: D1(1~25/30fps) Electrical Third Stream: 720P(1~25/30fps) Power Supply DC12V, AC24V, PoE(802.3af)(Class 0)	Frame Rate							1 channel In: 5mA 5VDC
Third Stream: 720P(1~25/30fps) Power Supply DC12V, AC24V, PoE(802.3af)(Class 0)			Sub Stream: D1(1~25/30fps)				Flectrical	1 GIAIIIIEI OUC 300MA 12VDC
			Third Stream: 720P(1~25/30fps)					DC12V AC24V PAFIRAZ RafVClass AV
Bit Rate Control CBR/VBR Power Consumption <12.5W	Bit Rate Control		CBR/VBR				,	

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +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	0.89kg (1.96lb)
Gross Weight	1.13kg (2.49lb)

Ordering Information Part Number Type Description DH-IPC-4MP IR Dome Network Camera, WDR, PAL HDBW5431EP-Z5 DH-IPC-4MP IR Dome Network Camera, WDR,NTSC HDBW5431EN-Z5 4MP camera 4MP IR Dome Network Camera,WDR,PAL HDBW5431EP-Z5 4MP IR Dome Network Camera, WDR,NTSC HDBW5431EN-Z5 PFA138 Junction Box PFB302S Wall mount PFB201C In-ceiling mount Accessories (optional) PFB300C Ceiling mount Pole mount PFA152 PFA101 Mount adapter

Accessories

Optional:







PFB302S Wall mount

PFA138 Juntion Box

PFB201C In-ceiling mount







PFB300C Ceiling mount

PFA152 Pole mount

PFA101 Mount adapter

In-ceiling Mount	Junction Mount	Pole Mount
PFB201C	PFA138	PFA101 + PFB302S + PFA152
6	·	
Ceiling Mount	Wall Mount	
PFA101 + PFB300C	PFA101 + PFB302S	

Dimensions (mm/inch)





