

DH-IPC-HDBW5431E-ZE

4MP WDR IR Dome Network Camera

www.PadVokam.by



- 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
- 2.7mm ~13.5mm motorized lens
- Max. IR LEDs Length 50m
- Micro SD card memory, IP67,IK10, PoE+



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 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 ±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 Specification							Day/Night		Auto(ICR) / Color / B/W
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 Shutter Speed		Auto/Manual, 1/3~1/100000s					Region of Interest		Off / On (4 Zone)
Minimum Illumination		0.03Lux/F1.4 (Color,1/3s,30IRE) 0.3Lux/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 Control		Auto/ Manual					Digital Zoom		16x
IR LEDs		3					Flip		0°/90°/180°/270°
							Mirror		Off / On
							Privacy Masking		Off / On (4 Area, Rectangle)
Lens							Audio		
Lens Type		Motorized/ Auto Iris(DC)					Compression		G.711a/ G.711Mu/ AAC/ G.726
Mount Type		Board-in					Network		
Focal Length		2.7mm~13.5mm					Ethernet		RJ-45 (10/100Base-T)
Max. Aperture		F1.4					Protocol		HTTP; HTTPS; TCP/IP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP
Angle of View		H: 106°~31°, V:58°~17°					Interoperability		ONVIF, PSIA, CGI
Optical Zoom		5x					Streaming Method		Unicast / Multicast
Focus Control		Motorized					Max. User Access		10 Users /20 Users
Close Focus Distance		0.3m					Edge Storage		NAS Local PC for instant recording Mirco SD card 128GB
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Web Viewer		IE, Chrome, Firefox, Safari	
	W	64(210ft)	26m(85ft)	13m(42ft)	6.5m(21ft)	Management Software		Smart PSS, DSS, Easy4ip	
	T	208m(682ft)	83m(272ft)	41m(136ft)	20m(68ft)	Smart Phone		IOS, Android	
Pan/Tilt/Rotation							Certifications		
Pan/Tilt/Rotation Range		Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°					Certifications		CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Intelligence							Interface		
IVS		Tripwire, Intrusion, Object Abandoned/Missing					Video Interface		1 Port(For adjustment only)
Advanced Intelligent Functions		Face Detection					Audio Interface		1/1 channel In/Out
Video							RS485		N/A
Compression		H.265+/H.265/H.264+/H.264					Alarm		1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Streaming Capability		3 Streams					Electrical		
Resolution		4M(2688x1520)/3M(2304x1296)/ 1080P(1920x1080)/ 1.3M(1280x960)/720P(1280x720)/ D1(704x576/704x480)/ VGA(640x480)/ CIF(352x288/352x240)					Power Supply		DC12V, AC24V, PoE+(802.3at)(Class 4)
Frame Rate		Main Stream: 4M(1~25/30fps) Sub Stream: D1(1~25/30fps) Third Stream: 720P(1~25/30fps)							
Bit Rate Control		CBR/VBR							
Bit Rate		H.264: 24~10240Kbps H.265: 14~9984Kbps							

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +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

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

Type	Part Number	Description
4MP camera	DH-IPC-HDBW5431EP-ZE	4MP IR Dome Network Camera, WDR, PAL
	DH-IPC-HDBW5431EN-ZE	4MP IR Dome Network Camera, WDR, NTSC
	IPC-HDBW5431EP-ZE	4MP IR Dome Network Camera, WDR, PAL
	IPC-HDBW5431EN-ZE	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

Optional:

PFB302S
Wall mountPFA138
Junction BoxPFB201C
In-ceiling mountLR1002
ePoE Over Coax ConverterPFB300C
Ceiling mountPFA152-E
Pole mountPFA101
Mount adapter

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

Dimensions (mm/inch)

