

DH-IPC-HDBW2431R-ZAS/VFAS

4MP WDR IR Dome Network Camera



System Overview

The IR Megapixel Vari-focal camera delivers 2MP/4MP/5MP resolution with a 2.7mm – 13.5mm varifocal lens.The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

Functions

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.

Intelligent Video analysis (IVS)

Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

Wide Dynamic Range (WDR)

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.

Smart IR Technology

With IR illumination, detailed images can be captured in low light or

- · 1/3" 4Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- · 20fps@4M(2688×1520)&25/30fps@3M(2304×1296)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · Micro SD card slot, up to 128GB
- · 2.7~13.5mm varifocal lens
- \cdot Max IR LEDs Length 30m
- IP67, IK10,PoE



total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 50m (164ft).

Protection (IP67, IK10, wide voltage)

The camera allows for ±10% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV 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.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity.

Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Lite Series | DH-IPC-HDBW2431R-ZAS/VFAS

Technical Specification Camera 1/3" 4Megapixel progressive CMOS Image Sensor 2688(H) x1520(V) Effective Pixels RAM/ROM 512MB/32MB Scanning System Progressive Auto/Manual, 1/3~1/100000s **Electronic Shutter Speed** 0.03Lux/F1.4(Color,1/3s,30IRE) Minimum Illumination 0.3Lux/F1.4(Color,1/30s,30IRE) OLux/F1.4(IR on) S/N Ratio More than 50dB IR Distance Distance up to 30m(98ft) IR On/Off Control Auto/ Manual 2 IR LEDs Lens Motorized(-ZS), Manual(-VFS) Lens Type Mount Type Board-in 2.7mm~13.5mm Focal Length F1.4 Max. Aperture Angle of View H:104°~28°, V:55°~16° Focus Control Motorized(-ZS), Manual(-VFS) 0.2m Close Focus Distance Lens Detect Observe Recognize Identify DORI Distance W 64m(210ft) 26m(85ft) 13m(43ft) 6m(20ft) 89m(292ft) 44m(144ft) 22m(72ft) 222m(728ft) Т PTZ Pan/Tilt Range Pan:0° ~355° ;Tilt:0° ~75° ;Rotation:0° ~355° Intelligence IVS Tripwire, Intrusion Video H.265+/H.265/H.264+/H.264 Compression Streaming Capability 2 Streams (2688x1520)/(2560×1440)/ (2304x1296)/1080P(1920x1080)/ Resolution SXGA(1280×1024)/1.3M(1280×960)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480) CIF(352×288/352×240) 4M (1~20fps)/3M(1~25/30fps) Frame Rate D1/CIF(1~20/25fps) CBR/VBR Bit Rate Control H.265: 12K ~ 8448Kbps Bit Rate H.264: 32K ~ 10240Kbps Day/Night Auto(ICR) / Color / B/W BLC Mode BLC / HLC / WDR(120dB)

White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Gain Control	Auto/Manual	
Noise Reduction	3D DNR	
Motion Detetion	Off / On (4 Zone, Rectangle)	
Region of Interest	Off / On (4 Zone)	
Electronic Image Stabilization(EIS)	N/A	
Smart IR	Support	
Digital Zoom	16x	
Flip	0°/90°/180°/270°	
Mirror	Off / On	
Privacy Masking	Off / On (4 Area, Rectangle)	
Audio		
Compression	G.711A/G.711Mu/G.726/AAC	
Network		
Ethernet	RJ-45 (10/100Base-T)	
Protocol	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCP ;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP	
Interoperability	ONVIF, PSIA, CGI	
Streaming Method	Unicast / Multicast	
Max. User Access	10 Users / 20 Users	
Edge Storage	NAS Local PC for instant recording Micro SD Card 128GB	
Web Viewer	IE, Chrome, Firefox, Safari	
Management Software	Smart PSS, DSS, Easy4ip	
Smart Phone	IOS, Android	
Certifications		
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B	
Interface		
Video Interface	N/A	
Audio Interface	1/1 channel In/Out	
RS485	N/A	
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	
Electrical		
Power Supply	DC12V PoE (802.3af)(Class 0)	
Power Consumption	<8.5W(-ZAS), <6W(-VFAS)	

Lite Series | DH-IPC-HDBW2431R-ZAS/VFAS

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	ф122mm×88.9mm(4.80''x3.50'')
Net Weight	0.4Kg (0.88lb)
Gross Weight	0.54Kg(1.19lb)

Ordering Information

Ph-IPC- HDBW2431RP-ZAS4MP WDR IR Dome Network Camera, PALDH-IPC- HDBW2431RN-ZAS4MP WDR IR Dome Network Camera, NTSCIPC-HDBW2431RP- ZAS4MP WDR IR Dome Network Camera, PALIPC-HDBW2431RN- ZAS4MP WDR IR Dome Network Camera, NTSCDH-IPC- HDBW2431RP-VFAS4MP WDR IR Dome Network Camera, NTSCDH-IPC- HDBW2431RN-VFAS4MP WDR IR Dome Network Camera, PALIPC-HDBW2431RN-VFAS4MP WDR IR Dome Network Camera, NTSCIPC-HDBW2431RN-VFAS4MP WDR IR Dome Network Camera, PALIPC-HDBW2431RN-VFAS4MP WDR IR Dome Network Camera, NTSCIPC-HDBD2431RN- VFAS4MP WDR IR Dome Network Camera, PALIPC-HDBD2431RN- VFAS4MP WDR IR Dome Network Camera, NTSCIPC-HDBD2431RN- VFAS4MP WDR IR Dome Network Camera, PALIPC-HDBD2431RN- VFAS4MP WDR IR Dome Network Camera, NTSCIPC-HDBD2431RN- VFAS4MP WDR IR Dome Network Camera, NTSCIPC-HDBD2431RN- VFASIPC-HDBN	Туре	Part Number	Description
Image: HDBW2431RN-ZASNTSCIPC-HDBW2431RP- ZAS4MP WDR IR Dome Network Camera, PALIPC-HDBW2431RN- ZAS4MP WDR IR Dome Network Camera, NTSCIPC-HDBW2431RP- PAL4MP WDR IR Dome Network Camera, PALDH-IPC- HDBW2431RN-VFAS4MP WDR IR Dome Network Camera, PALIPC-HDBW2431RN-VFAS4MP WDR IR Dome Network Camera, NTSCIPC-HDBW2431RN-VFAS4MP WDR IR Dome Network Camera, NTSCIPC-HDBW2431RN- VFAS4MP WDR IR Dome Network Camera, NTSCIPC-HDBD2431RN- VFAS4MP WDR IR Dome Network Camera, NTSCIPC-HDBD2431RN- VFAS4MP WDR IR Dome Network Camera, NTSCPFA137Junction boxPFB203WWall mountPFA152-EPole mountPFB200CIn-celling Mount	4MP camera		,
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DH-IPC- HDBW2431RP-VFAS4MP WDR IR Dome Network Camera, PALDH-IPC- HDBW2431RN-VFAS4MP WDR IR Dome Network Camera, MTSCIPC-HDBW2431RP- VFAS4MP WDR IR Dome Network Camera, PALIPC-HDBD2431RN- VFAS4MP WDR IR Dome Network Camera, MTSCIPC-HDBD2431RN- VFAS4MP WDR IR Dome Network Camera, PALIPC-HDBD2431RN- VFAS4MP WDR IR Dome Network Camera, PALIPC-HDBD2431RN- VFAS9FFA137IPFB203WWall mountPFB203CPIe mountIn-celling Mount			
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VFASPALIPC-HDBD2431RN- VFAS4MP WDR IR Dome Network Camera, NTSCPFA137Junction boxPFB203WWall mountPFB203WPole mountPFA152-EPole mountPFB200CIn-celling Mount			
VFASNTSCPFA137Junction boxPFB203WWall mountAccessories (optional)PFA152-EPFB200CIn-celling Mount			
Accessories (optional) PFB203W Wall mount PFB200C In-celling Mount			
Accessories (optional) PFA152-E Pole mount PFB200C In-celling Mount		PFA137	Junction box
(optional) PFA152-E Pole mount PFB200C In-celling Mount		PFB203W	Wall mount
		PFA152-E	Pole mount
PFA200W Rain shade		PFB200C	In-celling Mount
		PFA200W	Rain shade

Accessories

Optional:







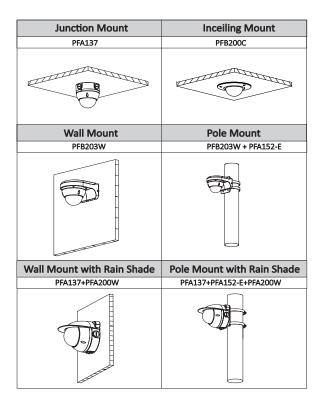


PFA137 Function Box

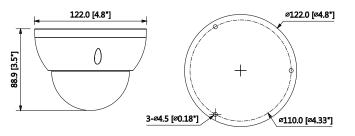
PFA152-E Pole mount In-celling Box Wall mount

PFB200C

PFA200W Rain shade



Dimensions (mm/inch)





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