



DH-IPC-HDBW2431R-ZS/VFS

4MP WDR IR Dome Network Camera



System Overview

The IR Megapixel Vari-focal Dome camera delivers 4MP resolution with a motorized 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

True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens

Regions of interest

Regions of Interest (ROI) is a user defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDS from whiting 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).

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures 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.

- · 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
- \cdot Micro SD card slot, up to 128GB
- · 2.7~13.5mm varifocal lens
- \cdot Max IR LEDs Length 50m
- IP67, IK10, PoE



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.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust to IP67 standards, making it suitable for indoor or outdoor environments. With its IK10 rated impact resistant design, the camera provides maximum durability against vandals making it capable of withstanding the equivalent of 55 kg (120lbs) of force.

Supporting $\pm 10\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

Interoperability

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

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



Lite Series | DH-IPC-HDBW2431R-ZS/VFS



Technical Specification

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Camera						
Image Sensor		1/3" 4Megapixel progressive CMOS				
Effective Pixels		2688(H) x1520(V)				
RAM/ROM		512MB/32MB				
Scanning System		Progressive				
Electronic Shutte	er Speed	Auto/Manual	, 1/3(4)~1/100	0000s		
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 45	More than 45dB			
IR Distance		Distance up to	Distance up to 50m(164ft)			
IR On/Off Contro	ol	Auto/ Manua	I			
IR LEDs		2				
Lens						
Lens Type		Motorized(-Z	Motorized(-ZS), Manual(-VFS)			
Mount Type		Board-in				
Focal Length		2.7mm~13.5mm				
Max. Aperture		F1.4				
Angle of View		H:104°~28°, V:55°~16°				
Focus Control		Motorized(-ZS),Manual(-VFS)				
Close Focus Dist	ance	0.2m				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	W	64m(210ft)	26m(85ft)	13m(43ft)	6m(20ft)	
	т	222m(728ft)	89m(292ft)	44m(144ft)	22m(72ft)	
PTZ						
Pan/Tilt Range		Pan:0° ~355°	;Tilt:0° ~70° ;F	Rotation:0° ~3	55°	
Video						
Compression		H.265+/H.265/H.264+/H.264				
Streaming Capal	oility	2 Streams				
Resolution		(2688x1520)/(2560×1440)/ (2304x1296)/1080P(1920x1080)/ SXGA(1280×1024)/1.3M(1280× 960)/720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)CIF(352×288/352×240)				
Frame Rate		4M (1 ~ 20fps)/3M(1 ~ 25/30fps)				
		D1/CIF(1 ~ 20/25fps)				
Bit Rate Control		CBR/VBR				
Bit Rate		H.265: 12K ~ 8448Kbps 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	N/A
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	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, DMSS
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	N/A
RS485	N/A
Alarm	N/A
Electrical	
Power Supply	DC12V PoE (802.3af)(Class 0)
Power Consumption	<8.5W(-ZS), <6W(-VFS)

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Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
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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)

Accessories

Optional:



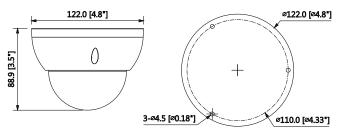




In-ceiling Mount

Junction Mount	Inceiling Mount
PFA137	PFB200C
Wall Mount	Pole Mount
PFB203W	PFB203W + PFA152

Dimensions (mm/inch)





Ordering In	formation			
Туре	Part Number	Description		
	DH-IPC- HDBW2431RP-ZS	4MP WDR IR Dome Network Camera, PAL		
	DH-IPC- HDBW2431RN-ZS	4MP WDR IR Dome Network Camera, NTSC		
	IPC-HDBW2431RP-ZS	4MP WDR IR Dome Network Camera, PAL		
	IPC-HDBW2431RN-ZS	4MP WDR IR Dome Network Camera, NTSC		
4MP camera	DH-IPC- HDBW2431RP-VFS	4MP WDR IR Dome Network Camera, PAL		
	DH-IPC- HDBW2431RN-VFS	4MP WDR IR Dome Network Camera, NTSC		
	IPC-HDBW2431RP- VFS	4MP WDR IR Dome Network Camera, PAL		
	IPC-HDBD2431RN- VFS	4MP WDR IR Dome Network Camera, NTSC		
	PFA137	Junction box		
Accessories (optional)	PFB203W	Wall mount		
	PFA152	Pole mount		
	PFB200C	In-celling Mount		