

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 2.7 mm - 13.5 mm 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
- · Micro SD card slot, up to 128GB
- · 2.7~13.5mm varifocal lens
- · 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



Technical Specification					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Camera	Camera					Gain Control	Auto/Manual
Image Sensor		1/3" 4Megapixel progressive CMOS				Noise Reduction	3D DNR
Effective Pixels		2688(H) x1520(V)				Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		512MB/32MB				Region of Interest	Off / On (4 Zone)
Scanning System		Progressive				Electronic Image Stabilization(EIS)	N/A
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s				Smart IR	Support
Minimum Illumination		0.03Lux/F1.4(Color,1/3s,30IRE) 0.3Lux/1.4(Color,1/30s,30IRE) 0Lux/F1.4(IR on)				Digital Zoom	16x
S/N Ratio		More than 45dB				Flip	0°/90°/180°/270°
IR Distance		Distance up to 50m(164ft)				Mirror	Off / On
IR On/Off Contro	ol	Auto/ Manual				Privacy Masking	Off / On (4 Area, Rectangle)
IR LEDs		2				Audio	
Lens						Compression	N/A
Lens Type		Motorized(-ZS), Manual(-VFS)				Network	
Mount Type		Board-in				Ethernet	RJ-45 (10/100Base-T)
Focal Length		2.7mm~13.5mm				Protocol	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCF;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP
Max. Aperture		F1.4				Interoperability	ONVIF, PSIA, CGI
Angle of View		H:104°~28°, V:55°~16°				Streaming Method	Unicast / Multicast
Focus Control		Motorized(-ZS),Manual(-VFS)				Max. User Access	20 Users
Close Focus Distance		0.2m					NAS
DON Distance	Lens	Detect	Observe	Recognize	Identify	Edge Storage	Local PC for instant recording Micro SD Card 128GB
DORI Distance	W	64m(210ft)	26m(85ft)	13m(43ft)	6m(20ft)	Web Viewer	IE, Chrome, Firefox, Safari
DT7	Т	222m(728ft)	89m(292ft)	44m(144ft)	22m(72π)	Management Software	Smart PSS, DSS, DMSS
PTZ		00.0055	T'l. 00 + 700 f	2	F.F.0	Smart Phone	IOS, Android
Pan/Tilt Range		Pan:0° ~355° ;Tilt:0° ~70° ;Rotation:0° ~355°				Certifications	
Video		H.265+/H.265	5/H.264+/H.26	5 4		Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capab	oility	2 Streams				Interface	
Desclution		(2688x1520)/(2560×1440)/ (2304x1296)/1080P(1920x1080)/				Video Interface	N/A
Resolution		SXGA(1280×1 960)/720P(12	80×720)/D1(7	704×576/704×	<480)/	Audio Interface	N/A
Frame Rate		VGA(640×480)CIF(352×288/352×240) 4M (1 ~ 20fps)/3M(1 ~ 25/30fps)				RS485	N/A
		D1/CIF(1 ~ 20/25fps)				Alarm	N/A
Bit Rate Control		CBR/VBR				Electrical	
DIT NATE COULTO						Power Supply	DC12V PoE (802.3af)(Class 0)
Bit Rate		H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps				Power Consumption	<8.5W(-ZS), <6W(-VFS)
Day/Night		Auto(ICR) / Color / B/W					
BLC Mode		BLC / HLC / WDR(120dB)					

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

Ordering Information						
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				
4MP camera	IPC-HDBW2431RN-ZS	4MP WDR IR Dome Network Camera, NTSC				
4IVIP Calliera	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	PFB203W	Wall mount				
(optional)	PFA152	Pole mount				
	PFB200C	In-celling Mount				

Accessories

Optional:









PFA137 Junction Box

PFB203W Wall Mount

PFA152 Pole Mount

PFB200C In-ceiling Mount

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

Dimensions (mm/inch)



