

DH-IPC-HDBW2230R-ZS/VFS

2MP IR Dome Network Camera



System Overview

The IR Megapixel Vari-focal camera delivers 2MP 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 Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) 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 Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard 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.

Smart IR Technology

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

- · 1/2.9" 2Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- · 25/30fps@1080P(1920×1080)
- · DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · 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 30m
- · IP67, IK10, PoE











Protection (IP67, IK10, wide voltage)

The camera allows for $\pm 25\%$ 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 complies with an IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.)

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-HDBW2230R-ZS/VFS

Technical Specification					Day/Night	Auto(ICR) / Color / B/W	
Camera					BLC Mode	BLC/HLC/DWDR	
Image Sensor		1/2.9" 2Megapixel progressive CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		1920(H) x1080(V)				Gain Control	Auto/Manual
RAM/ROM		256MB/32MB				Noise Reduction	3D DNR
Scanning System		Progressive				Motion Detection	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 30m(98ft)				Digital Zoom	16x
IR On/Off Contr	ol	Auto/ Manual				Flip	0°/90°/180°/270°
IR LEDs		2					
Lens						Mirror	Off/On
Lens Type		Motorized(-ZS),Manual(-VFS	· ·)		Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type		Board-in				Audio	
						Compression	N/A
Focal Length		2.7mm~13.5mm				Network	
Max. Aperture		F1.4				Ethernet	RJ-45 (10/100Base-T)
Angle of View Focus Control		H:104°~28°, V:55°~16° Motorized(-ZS),Manual(-VFS)				Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP FTP;DHCP;DNS;DDNS;PPPoE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;
Close Focus Distance		0.2m				Interoperability	TLS ONVIF Profile S&G,API
	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
DORI Distance	W	46m(151ft)	19m(62ft)	9m(30ft)	5m(16ft)	Max. User Access	10 Users / 20 Users
	Т	159m(522ft)	63m(207ft)	32m(105ft)	16m(52ft)	Max. User Access	
PTZ						Edge Storage	NAS Local PC for instant recording Micro SD Card 128GB
Pan/Tilt Range		Pan:0° ~355° ;Tilt:0° ~75° ;Rotation:0° ~355°				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence	e					Management Software	Smart PSS, DSS, DMSS
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal acess, Storage anomaly				Smart Phone	IOS, Android
IVS		Tripwire, Intru	sion			Certifications	
Video						Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Compression		H.265/H.264H		tream)		Interface	
Smart Codec		Support H.265+/H.264+				Video Interface	N/A
Streaming Capability		2 Streams				Audio Interface	N/A
Resolution		1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)				RS485	N/A
Frame Rate		Main Stream: 1080P(1 ~ 25/30fps)				Alarm	N/A
		Sub Stream: D1(1 ~ 25/30fps)				Electrical	
Bit Rate Control		CBR/VBR				Power Supply	DC12V, PoE (802.3af)(Class 0)
Bit Rate		H.265: 12K ~ 6 H.264: 32K ~ 1				Power Consumption	<8W(-ZS), <5.5W(-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	φ122mm×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- HDBW2230RP-ZS	2MP IR Dome Network Camera, PAL				
	DH-IPC- HDBW2230RN-ZS	2MP IR Dome Network Camera, NTSC				
	IPC-HDBW2230RP-ZS	2MP IR Dome Network Camera, PAL				
2MP camera	IPC-HDBW2230RN-ZS	2MP IR Dome Network Camera, NTSC				
ZIMP Camera	DH-IPC- HDBW2230RP-VFS	2MP IR Dome Network Camera, PAL				
	DH-IPC- HDBW2230RN-VFS	2MP IR Dome Network Camera, NTSC				
	IPC-HDBW2230RP- VFS	2MP IR Dome Network Camera, PAL				
	IPC-HDBD2230RN- VFS	2MP IR Dome Network Camera, NTSC				
	PFA137	Junction box				
	PFB203W	Wall mount				
Accessories (optional)	PFA152-E	Pole mount				
	PFB200C	In-celling Mount				
	PFA200W	Rain shade				

Accessories

Optional:











PFA137 **Function Box**

PFB203W

PFB200C PFA152-E Wall mount Pole mount In-celling Box

Rain shade

Junction Mount	Inceiling Mount
PFA137	PFB200C
Wall Mount	Pole Mount
PFB203W	PFB203W + PFA152-E
Wall Mount with Rain Shade	Pole Mount with Rain Shade
PFA137+PFA200W	PFA137+PFA152-E+PFA200W

Dimensions (mm/inch)



