

DH-IPC-HDBW3231R-AS

2MP WDR IR Dome Network Camera



System Overview

3 Series by upgrading H.265 encoding technology, bringing high efficient video compression. It saves bandwidth and storage , energy-saving design to enhance the monitoring system . Meanwhile, the series offers features such as starlight , Smart IR technology , intelligent image analysis techniques. It provides excellent image quality and intelligent and efficient event reminders . This series provides IP67 weatherproof and IK10 vandal-proof protection feature. Give customers more value.

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.

Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.008 lux).

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.

- · 1/2.7" 2Megapixel progressive CMOS
- · H. 265+&H.264+ triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · 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
- · 2.8mm fixed lens (3.6mm, 6mm, 8mm optional)
- \cdot Max IR LEDs Length 50m
- · IP67, IK10, PoE



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 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 ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 4KV 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.

Interoperability

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



Technical Specification

Camera					
Camera					
Image Sensor		1/2.7" 2Megapixel progressive CMOS			
Effective Pixels		1920(H) x1080(V)			
RAM/ROM		256MB/128MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.008Lux/F2.0(Color,1/3s,30IRE) 0.04Lux/F2.0 Color,1/30s,30IRE) 0Lux/F2.0(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 50m(164ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		1			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8 mm (3.6mm, 6mm, 8mm optional)			
Max. Aperture		F2.0			
Angle of View		H:112°/88°/55°/41°, V:60°/47°/31°/23°			
Focus Control		Fixed			
Close Focus Distance		0.6m (1.97ft)			
	Lens	Detect	Observe	Recognize	Identify
	2.8mm	40m(131ft)	16m(52.5ft)	8m(26ft)	4m(13ft)
DORI Distance	3.6mm	53m(274ft)	21m(69ft)	11m(36.1ft)	5m(16ft)
	6mm	80m(262.5ft)	32m(105ft)	16m(52.5ft)	8m(26.3ft)
	8mm	107m(351ft)	43m(141ft)	21m(69ft)	11m(36.1ft)
PTZ					
Pan/Tilt Range		Pan:0° ~355° ;Tilt:0° ~75° ;Rotation:0° ~355°			
Intelligence					
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal access, Storage anomaly			
IVS		Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intelligent Functions		Face Detection			
Video					
Compression		H.265/H.264H/MJPEG(Sub Stream)			
Smart Codec		Support H.265+/H.264+			
Streaming Capability		3 Streams			
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/D1(704x576/704x480)/ VGA(640x480)/CIF(352x288/352x240)			
Frame Rate		Main Stream: 1080P(1~25/30fps)			
		Sub Stream: D1(1~25/30fps)			
		Third Stream: 1080P(1~25/30fps)			
Bit Rate Control		CBR/VBR			
Bit Rate		H.264:16Kbps~8192Kbps H.265: 6Kbps~6554Kbps			
			200 mops		

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/ AAC/ G.726				
Network					
Ethernet	RJ-45 (10/100Base-T)				
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;TLS ;SSH;NFS; RTCP				
Interoperability	ONVIF Profile S&G, API				
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, 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	1/1 channel In/Out				
RS485	N/A				
Alarm	2 channel In: 5mA 5VDC 2 channel Out: 300mA 12VDC				
Electrical					
Power Supply	DC12V PoE (802.3af)(Class 0)				
Power Consumption	DC12V: 1.9W, 7.4W(IR On) PoE: 2.3W, 8.6W(IR On)				
Power Out	Max. 165mA 12VDC				

3 Series | DH-IPC-HDBW3231R-AS

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	0.406Kg (0.895lb)		
Gross Weight	0.59Kg(1.3lb)		

Ordering Information

Туре	Part Number	Description	
2MP camera	DH-IPC- HDBW3231RP-AS	2MP WDR IR Dome Network Camera, WDR, PAL	
	DH-IPC- HDBW3231RN-AS	2MP WDR IR Dome Network Camera, WDR, NTSC	
	IPC-HDBW3231RP-AS	2MP WDR IR Dome Network Camera, WDR, PAL	
	IPC-HDBW3231RN-AS	2MP WDR IR Dome Network Camera, WDR, NTSC	
Accessories (optional)	PFA137	Junction box	
	PFB203W	Wall mount	
	PFA152-E	Pole mount	
	PFB200C	In-celling Mount	
	PFA200W	Rain shade	

Accessories

Optional:







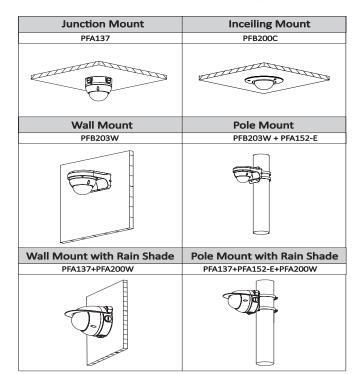
PFB200C



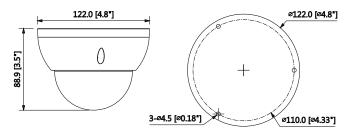
PFA137 Function Box Wall mount

PFA152-E Pole mount In-celling Box

PFA200W Rain shade



Dimensions (mm/inch)





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