

# DH-IPC-HDBW1831R-S

8MP WDR IR Dome Network Camera





## **System Overview**

The IR Megapixel Fixed camera delivers 8MP resolution with a 2.8/4.0/6.0mm fixed 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.

## 4K Technology

 $4 \mbox{K}$  technology as a revolutionary breakthrough in image, which enhance the expressive image of essence, allowing users to experience the best picture quality brought about by the visual feast . For the purposes of  $4 \mbox{K}$  surveillance with four times the  $1080 \mbox{P}$  resolution, presented to the user with more details . Under the same scenario by raising the pixels , reduce the camera cost.

#### 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.

- · 1/1.8" 8Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- · 25/30fps@8MP(3840×2160)
- · 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 (4mm, 6mm optional)
- · Max IR LEDs Length 30m
- · 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 30m (98ft).

#### 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.

## Interoperability

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



H.265: 16Kbps~8192Kbps

Technical Specification					Day/Night	Auto(ICR) / Color / B/W	
Camera						BLC Mode	BLC / HLC / WDR(120dB)
Image Sensor		1/1.8" 8Megapixel progressive CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		3840(H) x2160(V)				Gain Control	Auto/Manual
RAM/ROM		512MB/128MB				Noise Reduction	3D DNR
Scanning System		Progressive				Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shutt	er Speed	Auto/Manual, 1/3~1/100000s				Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.003Lux/F1.6( Color,1/3s,30IRE) 0.02Lux/F1.6 Color,1/30s,30IRE) 0Lux/F1.6(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 Contro	ol	Auto/ Manual				Flip	0°/90°/180°/270°
IR LEDs		1				Mirror	Off / On
Lens							
Lens Type		Fixed				Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type		Board-in				Audio	
Focal Length		2.8 mm (4mm	, 6mm optional	)		Compression	N/A
Max. Aperture		F1.6				Network	
Angle of View		H:111°/87°/55°, V:59°/47°/30°				Ethernet	RJ-45 (10/100Base-T)
Focus Control		Fixed				Protocol	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCi;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP
Close Focus Distance		1.5m (4.9ft)				Interoperability	ONVIF Profile S&G, CGI
	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
DORI Distance	2.8mm	84m(275.6ft)	34m(111.5ft)	17m(55.8t)	8m(26ft)	Max. User Access	10 Users / 20 Users
	4mm	104m(341ft)	42m(138ft)	21m(69ft)	10m(33ft)		NAS
PTZ	6mm	164m(538ft)	66m(217t)	33m(108ft)	16m(52ft)	Edge Storage	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	<b>1</b>					Management Software	Smart PSS, DSS, DMSS
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal access,				Smart Phone Certifications	IOS, Android
IVS		Storage anom	•			Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Video						Interface	
Compression		H.265/H.264H	I/MJPEG(Sub St	ream)		Video Interface	N/A
Smart Codec		Support H.265+/H.264+				Audio Interface	N/A
Streaming Capability		2 Streams				RS485	N/A
Resolution		4K(3840×2160)/6M(3072×2048)/5M(2560×1920)/ 3M(2048x1536)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280x960)/ 720P(1280×720)/D1(704×576/704×480) /VGA(640×480)/				Alarm Electrical	N/A
		CIF(352×288/352×240)  Main Stream: 4K (1~25/30fps)				Power Supply	DC12V PoE (802.3af)(Class 0)
Frame Rate				1		Power Consumption	<8.9W
Bit Rate Control		Sub Stream: D1(1~25/30fps)  CBR/VBR				Tower consumption	10.5W
Bit Rate		H.264:32Kbps~8192Kbps H.265: 16Kbps~8192Kbps					

## 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	0.45Kg (1.0lb)
Gross Weight	0.60Kg(1.33lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HDBW1831RP-S	8MP WDR IR Dome Network Camera, PAL			
8MP camera	DH-IPC- HDBW1831RN-S	8MP WDR IR Dome Network Camera, NTSC			
Sivir Calliela	IPC-HDBW1831RP-S	8MP WDR IR Dome Network Camera, PAL			
	IPC-HDBW1831RN-S	8MP WDR 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

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)





