

# DH-IPC-HDBW2121R-ZS/VFS

## 1.3MP WDR Network IR Dome Camera



- .1/3" 1.3Megapixel progressive scan CMOS
- . H.264+ & H.264 dual-stream encoding
- .Max 25/30fps@1.3M(1280x960)
- .Day/Night(ICR), 3DNR, AWB, AGC, BLC,WDR(120dB)
- .Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- .2.7~12mm varifocal lens
- .Max IR LEDs Length 30m
- .IP67, IK10, PoE
- .Micro SD card, up to 128GB



### System Overview

The IR Megapixel Vari-focal MiniDome camera delivers 1.3MP resolution with a motorized 2.7mm – 12mm 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, the camera has the ability to capture detailed images 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 30m (98ft).

#### 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.

#### 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  $\pm 25\%$  input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 8KV lightning rating provides protection against the camera and its structure from the effects of lightning.

### Streaming

With a choice of unicast or multicast streaming, bandwidth-efficient viewing, recording and third-party video management can easily be achieved. Dual streaming enables bandwidth-efficient viewing and recording. Depending on the resolution and frame rate selected on the first stream, the second stream provides a copy at a lower resolution.

### Interoperability

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

### Smart H.264+

Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.

**Technical Specification**

Camera

Image Sensor	1/3" 1.3Megapixel progressive scan CMOS
Effective Pixels	1280(H) × 960(V)
RAM/ROM	256MB/16MB
Scanning System	Progressive
Minimum Illumination	0.1Lux/F1.4(Color); 0Lux/F1.4 (IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 30m (98ft)
IR On/Off Control	Auto/ Manual
IR LEDs	2

Lens

Lens Type	Motorized(-ZS) Manual(-VFS)
Mount Type	Board-in
Focal Length	2.7mm~12mm
Max. Aperture	F1.4
Angle of View	H:99°~37°, V:52°~22°
Focus Control	Auto (-ZS) Manual(-VFS)
Close Focus Distance	0.3m

PTZ

Pan/Tilt Range	Pan:0° ~355° ;Tilt: 0° ~75° ; Rotation: 0° ~355°
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Video

Compression	H.264+ / H.264
Streaming Capability	2 Streams
Resolution	1.3M(1280×960)/720P(1280×720) /D1(704×576/704×480)/CIF (352×288/352×240)
Frame Rate	1.3M(1~25/30fps) D1/CIF(1 ~ 25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H264:32K ~ 10Mbps
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)
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
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Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP; UDP;SMTP;FTP;DHCP;DNS;DDNS; PPPOE;IPv4/v6;QoS;UPnP;NTP; Bonjour;802.1x;Multicast;ICMP; IGMP
Interoperability	ONVIF, PSIA, CGI
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, Easyi4p
Smart Phone	IOS, Android

Certifications

Certifications	CE (EN 60950:2000) UL: UL60950-1 FCC: FCC Part 15 Subpart B
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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	<7.9W/9.87W

Environmental

Operating Conditions	-30° C~+60° C(-22° F ~ +140° F), Less than 95% RH
Storage Conditions	-30° C~+60° C(-22° F ~ +140° F), Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

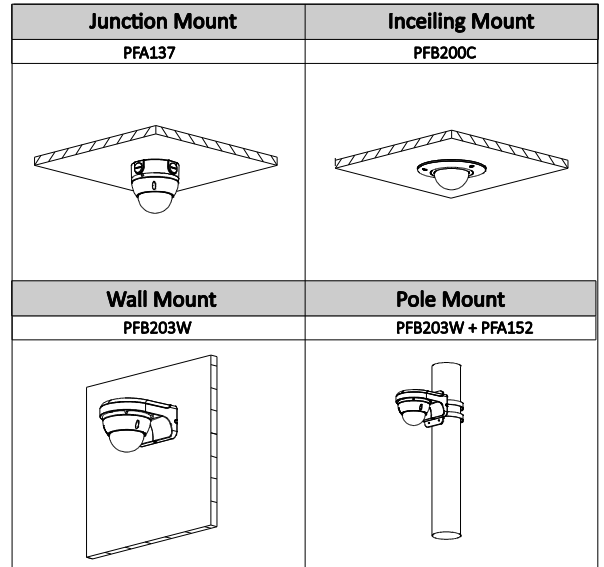
Casing	Metal
Dimensions	φ 122mm×88.9mm (4.8" x 3.5")
Net Weight	0.40Kg (0.88lb)
Gross Weight	0.54Kg (1.19lb)

**Ordering Information**

Type	Part Number	Description
1.3MP camera	DH-IPC-HDBW2121RP-ZS	1.3MP WDR Network IR Dome Camera,WDR, PAL
	DH-IPC-HDBW2121RN-ZS	1.3MP WDR Network IR Dome Camera,WDR, PAL
	DH-IPC-HDBW2121RP-VFS	1.3MP WDR Network IR Dome Camera,WDR, PAL
	DH-IPC-HDBW2121RN-VFS	1.3MP WDR Network IR Dome Camera,WDR, PAL
	IPC-HDBW2121RP-ZS	1.3MP WDR Network IR Dome Camera,WDR, PAL
	IPC-HDBW2121RN-ZS	1.3MP WDR Network IR Dome Camera,WDR, PAL
	IPC-HDBW2121RP-VFS	1.3MP WDR Network IR Dome Camera,WDR, PAL
	IPC-HDBW2121RN-VFS	1.3MP WDR Network IR Dome Camera,WDR, PAL
Accessories (optional)	PFB203W	Wall mount
	PFA137	Junction box
	PFA152	Pole mount
	PFB200C	In-ceiling mount

**Accessories**

Optional:



**Dimensions (mm/inch)**

