



# DH-IPC-HDBW2320R-ZS/VFS

3MP IR Dome Network Camera



## System Overview

The IR Megapixel Vari-focal Dome camera delivers 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, 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 30m (98ft).

## 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.

- · 1/3" 3Megapixel progressive CMOS
- · H.264+ & H.264 dual-stream encoding
- · 20fps@3M(2048×1536) &25/30fps@2M(1920×1080)
- · DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- $\cdot$  Micro SD card slot, up to 128GB
- · 2.7~12mm varifocal lens
- $\cdot$  Max IR LEDs Length 30m
- IP67, IK10,PoE



## 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

#### 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.



# Lite Series | DH-IPC-HDBW2320R-ZS/VFS



# **Technical Specification**

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Camera						
Image Sensor		1/3" 3Megapixel progressive CMOS				
Effective Pixels		2304(H) x1536(V)				
RAM/ROM		256MB/16MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s				
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	Mount Type		Board-in			
Focal Length		2.7mm~12mm				
Max. Aperture		F1.4				
Angle of View		H:87°~29°, V:42°~15°				
Focus Control		Motorized (-ZS),Manual(-VFS)				
Close Focus Distance		0.3m				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	W	62m(203ft)	25m(82ft)	12m(39ft)	6m(20ft)	
	Т	175m(574ft)	70m(230ft)	35m(115ft)	18m(59ft)	
PTZ						
Pan/Tilt Range		Pan:0° ~355° ;Tilt:0° ~75° ;Rotation:0° ~355°				
Video						
Compression		H.264+/H.264				
Streaming Capability		2 Streams				
Resolution		3M(2048×1536)(2304×1296)/ 1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)				

3M(1~20fps)/2M (1~25/30fps)

D1/CIF(1~25/30fps)

H264:24K ~ 8192Kbps

Auto(ICR) / Color / B/W

BLC / HLC / DWDR

CBR/VBR

Frame Rate

Bit Rate

Day/Night

BLC Mode

Bit Rate Control

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	N/A				
Network					
Ethernet	RJ-45 (10/100Base-T)				
Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP; DHCP;DNS;DDNS;PPPOE;IPv4/v6;Qo5;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(Network Attached Storage) Local PC for instant recording Micro SD Card 128GB				
Web Viewer	IE, Chrome, Firefox, Safari				
Management Software	Smart PSS, DSS, Easy4ip				
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	N/A				
RS485	N/A				
Alarm	N/A				
Electrical					
Power Supply	DC12V PoE (802.3af)(Class 0)				
Power Consumption	<6.25W				

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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)		

# Accessories

# **Optional:**





Pole Mount

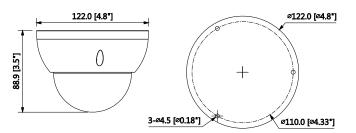


Junction Mount
Inceiling Mount

PFA137
PFB200C

Image: state stat

# Dimensions (mm/inch)





Ordering Information					
Туре	Part Number	Description			
3MP camera	DH-IPC- HDBW2320RP-ZS	3MP Network IR Dome Camera, PAL			
	DH-IPC- HDBW2320RN-ZS	3MP Network IR Dome Camera, NTSC			
	IPC-HDBW2320RP-ZS	3MP Network IR Dome Camera, PAL			
	IPC-HDBW2320RN-ZS	3MP Network IR Dome Camera, NTSC			
	DH-IPC- HDBW2320RP-VFS	3MP Network IR Dome Camera, PAL			
	DH-IPC- HDBW2320RN-VFS	3MP Network IR Dome Camera, NTSC			
	IPC-HDBW2320RP- VFS	3MP Network IR Dome Camera, PAL			
	IPC-HDBD2320RN- VFS	3MP Network IR Dome Camera, NTSC			
Accessories (optional)	PFA137	Junction box			
	PFB203W	Wall mount			
	PFA152	Pole mount			
	PFB200C	In-celling Mount			