

DH-IPC-HDBW2531R-ZS/VFS

5MP WDR IR Dome Network Camera



System Overview

The IR Megapixel Vari-focal camera delivers 5MP resolution with a 2.7 mm - 13.5 mm 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.

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.

- · 1/2.7" 5Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- · 15fps@5M(2592×1944)&25/30fps@3M(2304×1296)
- · 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
- · 2.7~13.5mm varifocal lens
- · Max IR LEDs Length 30m
- · IP67, IK10, PoE













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.

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-HDBW2531R-ZS/VFS

Technical Specification Camera I/2,7" 5Megapixel progressive CMOS Effective Pixels 2592(H) x1944(V) RAM/ROM 512MB/32MB Scanning System Progressive Electronic Shutter Speed Auto/Manual, 1/3"/1000000s Minimum Illumination O2Lux/F16(Color,1/3o,30)RE) S/N Ratio Mort Mort Manual IR Distance Distance up to 30m(98ft) RO/Off Control Auto/ Manual IR LEDS 2 Lens Defaring Mortificate(25),Manual(-VFS) Mount Type Board-in Focus Control Mortificate(25),Manual(-VFS) Close Focus Distance P1.6 Angle of View H.955"~27",V:70"~20" Focus Control Mortificate(25),Manual(-VFS) Close Focus Distance O 3.3m DAMIDISTANCE P206(885t) <td< th=""><th>Technical S</th><th>necification</th><th></th><th></th><th></th><th></th></td<>	Technical S	necification				
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Electronic Shutter Speed						
Minimum illumination 0.02Lux/F1.6(Color,1/3os,30IRE) 0.2Lux/F1.6(R 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 Lens Type Motorized(-zS),Manual(-VFS) Mount Type Board-in Focal Length 2.7mm^13.5mm Max. Aperture F1.6 Angle of View H:95*~27°, V:70*~20* Focus Control Motorized(-zS),Manual(-VFS) Close Focus Distance 0.3m DORI Distance U 64m(210ft) 26m(85ft) 13m(43ft) 6m(20ft) PTZ Pan:0* ~355*; Tilt:0* ~75*; Rotation:0* ~355* Intelligence Event Trigger Motion detection, Video tampering, Scene changing, Network disconnection, JP address conflict, Illegal acess, Storage anomaly IVS Tripwire, Intrusion Video Support H.265+/H.264+/H.264 Smart Codec Support H.265+/h.265+ Streaming Capability 2 Streams SM(1~15fps)/3M(1~25/30fps) Frame Rate 5M (1~15fps)/	Scanning System					
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Lens Type	IR Distance		Distance up to 30m(98ft)			
Lens Type	IR On/Off Contr	ol	Auto/ Manual			
Motorized(-ZS), Manual(-VFS)	IR LEDs		2			
Mount Type	Lens					
Focal Length 2.7mm~13.5mm	Lens Type		Motorized(-ZS), Manual(-VFS)			
F1.6	Mount Type		Board-in			
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	Smart Codec		Support H.265+/h.265+			
	Streaming Capability		2 Streams			
Frame Rate $\label{eq:defD1/CIF(1 $^\sim$ 20/25 fps)} D1/CIF(1 $^\sim$ 20/25 fps)$	Resolution		(2560×1440)/(2304x1296)/1080P(1920x1080)/ SXGA(1280×1024)/1.3M(1280×960)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/			
D1/CIF(1 ~ 20/25fps)	Frame Rate		5M (1 ~ 15fps)/3M(1 ~ 25/30fps)			
Bit Rate Control CBR/VBR			D1/CIF(1 ~ 20/25fps)			
	Bit Rate Control		CBR/VBR			

Bit Rate	H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps		
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 Detection	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;DH CP;DNS;DDNS;PPPOE;IPv4/v6;Qos;UPnP;NTP;Bonjo ur;IEEE802.1x;Multicast;ICMP;IGMP;TLS;RTCP;SNMP		
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	N/A		
RS485	N/A		
Alarm	N/A		
Electrical			
Power Supply	DC12V PoE (802.3af)(Class 0)		
Danier Carania atian	40 FM/ 76) 47 FM/ MF6)		



<9.5W(-ZS), <7.5W(-VFS)

Power Consumption

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	ф122mm×88.9mm(4.80''x3.50'')
Net Weight	0.4Kg (0.88lb)
Gross Weight	0.54Kg(1.19lb)

Ordering Information				
Type	Part Number	Description		
5MP camera	DH-IPC- HDBW2531RP-ZS	5MP WDR IR Dome Network Camera, PAL		
	DH-IPC- HDBW2531RN-ZS	5MP WDR IR Dome Network Camera, NTSC		
	IPC-HDBW2531RP-ZS	5MP WDR IR Dome Network Camera, PAL		
	IPC-HDBW2531RN-ZS	5MP WDR IR Dome Network Camera, NTSC		
	DH-IPC- HDBW2531RP-VFS	5MP WDR IR Dome Network Camera, PAL		
	DH-IPC- HDBW2531RN-VFS	5MP WDR IR Dome Network Camera, NTSC		
	IPC-HDBW2531RP- VFS	5MP WDR IR Dome Network Camera, PAL		
	IPC-HDBD2531RN- VFS	5MP WDR IR Dome Network Camera, NTSC		
	PFA137	Junction box		
Accessories (optional)	PFB203W	Wall mount		
	PFA152-E	Pole mount		
	PFB200C	In-celling Mount		
	PFA200W	Rain shade		

Accessories

Optional:











PFA137 **Function Box**

PFB203W

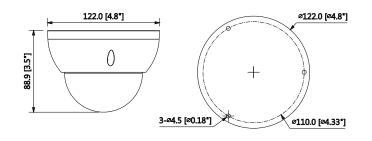
PFA152-E

PFB200C 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)



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