

DH-IPC-HDBW2531R-ZAS/VFAS

5MP WDR IR Dome Network Camera



System Overview

The IR Megapixel Vari-focal camera delivers 2MP/4MP/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 H.265+

Smart H.265+ is the optimized implementation of the H.265 codec 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 H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 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.

Smart IR Technology

With IR illumination, detailed images can be captured in low light or

- · 1/2.7" 5Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- · 20fps@5M(2592×1944)&25/30fps@3M(2304×1296)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · 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













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.



Technical S	pecification					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Camera						Gain Control	Auto/Manual
Image Sensor		1/2.7" 5Megapixel progressive CMOS				Noise Reduction	3D DNR
Effective Pixels		2592(H) x1944(V)				Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		512MB/32MB				Region of Interest	Off / On (4 Zone)
Scanning System		Progressive				Electronic Image Stabilization(EIS)	N/A
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Smart IR	Support
Minimum Illumination		0.02Lux/F1.6(Color,1/3s,30IRE) 0.2Lux/F1.6(Color,1/30s,30IRE) 0Lux/F1.6(IR on)				Digital Zoom	16x
S/N Ratio		More than 500	dВ			Flip	0°/90°/180°/270°
IR Distance		Distance up to 30m(98ft)				Mirror	Off / On
IR On/Off Contro	ol	Auto/ Manual				Privacy Masking	Off / On (4 Area, Rectangle)
IR LEDs		2				Audio	
Lens						Compression	G.711A/G.711Mu/G.726/AAC
Lens Type		Motorized(-ZS),Manual(-VFS)				Network	
Mount Type		Board-in				Ethernet	RJ-45 (10/100Base-T)
Focal Length		2.7mm~13.5mm				Protocol	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHC;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP
Max. Aperture		F1.6				Interoperability	ONVIF, PSIA, CGI
Angle of View		H:95°~27°, V:70°~20°				Streaming Method	Unicast / Multicast
Focus Control		Motorized(-ZAS),Manual(-VFAS)				Max. User Access	10 Users / 20 Users
Close Focus Dist	ance	0.3m					NAS
DORI Distance	Lens W	Detect 64m(210ft)	Observe 26m(85ft)	Recognize 13m(43ft)	Identify 6m(20ft)	Edge Storage	Local PC for instant recording Micro SD Card 128GB
Dom Distance	Т	222m(728ft)		44m(144ft)		Web Viewer	IE, Chrome, Firefox, Safari
PTZ	·	222111(72010)	osiii(Eszit)	(11112)	22(, 2)	Management Software	Smart PSS, DSS, Easy4ip
Pan/Tilt Range		Pan:0° ~355° ;	Tilt:0° ~75° :Rc	otation:0° ~35	5°	Smart Phone	IOS, Android
Intelligence		,	73 Moradonio 333		Certifications		
IVS		Tripwire, Intru	sion			Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Video						Interface	rec. recrait 13 Subpart b
Compression		H.265+/H.265,	/H.264+/H.264	1		Video Interface	N/A
Streaming Capability		2 Streams				Audio Interface	1/1 channel In/Out
Resolution		5M(2592×1944)/4M(2688×1520)/ (2560×1440)/(2304×1296)/1080P(1920×1080)/ SXGA(1280×1024)/1.3M(1280×960)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)				RS485	N/A
						Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Frame Rate		5M (1 ~ 20fps)/3M(1 ~ 25/30fps)				Electrical	
		D1/CIF(1 ~ 20/	25fps)			Power Supply	DC12V PoE (802.3af)(Class 0)
Bit Rate Control		CBR/VBR				Power Consumption	<6.2W(-ZAS), <4.9W(-VFAS)
Bit Rate		H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps					
Doy/Night		Auto(ICP) / Color / P/M					

Auto(ICR) / Color / B/W

Day/Night

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +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)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HDBW2531RP-ZAS	5MP WDR IR Dome Network Camera, PAL			
	DH-IPC- HDBW2531RN-ZAS	5MP WDR IR Dome Network Camera, NTSC			
	IPC-HDBW2531RP- ZAS	5MP WDR IR Dome Network Camera, PAL			
4MP camera	IPC-HDBW2531RN- ZAS	5MP WDR IR Dome Network Camera, NTSC			
4IVIF Calliela	DH-IPC- HDBW2531RP-VFAS	5MP WDR IR Dome Network Camera, PAL			
	DH-IPC- HDBW2531RN-VFAS	5MP WDR IR Dome Network Camera, NTSC			
	IPC-HDBW2531RP- VFAS	5MP WDR IR Dome Network Camera, PAL			
	IPC-HDBD2531RN- VFAS	5MP 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

PFB200C PFA152-E 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)



