

# DH-IPC-HDBW2531R-ZAS-S2

5MP Lite IR Vari-focal Dome Network Camera



**System Overview** 

With updraded H.265 encoding technology, Dahua Lite series camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function and tamper-proof function, complying to the standards of IP67 and IK10.

### **Functions**

#### Smart(H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

#### Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back- light environment, bright region and dark region with strong light source, you can also get clear images.

- 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs 2688×1520 (2688×1520) @ 25/30 fps, and supports max. 5MP (2592×1944) @ 20 fps
- H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED. max IR distance: 40 m
- ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- 12V DC/PoE power support
- IP67, IK10 protection grade















#### Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

#### Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

#### Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 m (Impact energy is 20J).

Wide voltage: The camera allows  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification						Bit Rate C	ontrol	CBR/VBR	
Camera						Video Bit	Rate	H.264: 32 Kbps–8192 Kbps H.265: 12 Kbps–8192 Kbps	
Image Sensor		1/2.7" 5Megapixel progressive CMOS				Day/Night			
Effective Pixels		2592 (H) × 1944 (V)				BLC		Yes	
ROM		128 MB				HLC		Yes	
RAM		256 MB				WDR		120 dB	
Scanning System		Progressive						Auto/natural/street lamp/outdoor/manual/regional	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				White Bal	ance	custom	
Min. Illumination		Color : 0.008 Lux@F1.5; Black&White : 0.007 Lux@F1.5, 0 Lux(IR on)				Gain Cont	rol	Auto/Manual	
IR Distance		40 m (131.2 ft)				Noise Red	luction	3D DNR	
IR On/Off Control		Auto/Manual				Motion Do	etection	OFF/ON (4 areas, rectangular)	
IR LEDs Number		2				Region of	Interest(RoI)	Yes (4 areas)	
D /Til+/D-+-+i-						Smart IR		Yes	
Pan/Tilt/Rotation Range		Tilt: 0°–75° Rotation: 0°–	355°			Image Rot	tation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with $2688\times$ $1520$ resolution and lower.)	
Lens						Mirror		Yes	
Lens Type		Motorized va	ri-focal			Privacy M	asking	4 areas	
Mount Type		ф14				Audio	Audio		
Focal Length		2.7 mm-13.5 mm				Audio Cor	mpression	G.711a; G.711Mu; G.726; AAC	
Max. Aperture		F1.5				Networ	Network		
Field of View		Tilt: 72°-20°						RJ-45 (10/100 Base-T)	
Iris Type		Diagonal: 133°–33°  Fixed aperture				Protocol		IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; IEEE802.1x; Bonjour; SNMP	
Close Focus Distance		0.8m-0.8m (	2.62 ft–2.62 ft)	)		latanana		ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone;	
	Lens	Detect	Observe	Recognize	Identify	Interoper	ability	Genetec	
DORI Distance	W	64 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (21 ft)	User/Host	t	20	
	Т	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)	Edge Stor	age	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
Smart Event						Browser		IE Chrome	
General IVS Ana	General IVS Analytics		usion			Browse.		Firefox	
Video	Video					Managem	nent Software	Smart PSS; DSS; DMSS	
Video Compress	Video Compression		H.265; H.264; H.264B; MJPEG				Mobile Phone IOS; Android		
Smart Codec		Yes				Certific	Certification		
Video Frame Rate		Main stream: 2592 × 1944 2688 × 1520 Sub stream: 704 × 576 (1 704 × 480 (1	(1 fps-20 fps) (1 fps-25/30 fp fps-25 fps)	os)		Certificati	ions	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Stream Capability		2 streams				Port	Port		
Resolution		2592×1944(2592×1944); 2688×1520(2688×1520); 3M(2048×1536); 2304×1296(2304×1296);				Audio Inp	ut	1 channel (RAC port)	
		1080p(1920×	1080); 1.3M (	1280 × 960); 72	!0p(1280×720);	Audio Out	tput	1 channel (RAC port)	
			D1(704×576/704×480); VGA(640×480); CIF(352×288/352×240)				ut	1 channel In: 5mA 5V DC	

# Lite Series | DH-IPC-HDBW2531R-ZAS-S2

Alarm Output	1 channel Out: 300mA 12 VDC	
Power		
Power Supply	12V DC/PoE (IEEE802.3af)	
Power Consumption	< 8.0W	
Environment		
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than ≤ 95%	
Storage Temperature	-40°C to +60°C (-40°F to +140°F)	
Protection Grade	IP67, IK10	
Structure		
Casing	Metal	
Dimensions	Φ122 mm × 88.9 mm (Φ4.80" × 3.50")	
Net Weight	0.47 kg (1.1 lb)	
Gross Weight	0.63 kg (1.4 lb)	

Ordering Information					
Туре	Part Number	Description			
5MP	DH-IPC-HDBW2531RP-ZAS-S2	5MP Lite IR Vari-focal Dome Network Camera, PAL			
Camera	DH-IPC-HDBW2531RN-ZAS-S2	5MP Lite IR Vari-focal Dome Network Camera,NTSC			
	PFA137	Junction Box			
	PFB203W	Wall Mount			
	PFA152-E	Pole Mount			
	PFA200W	Rain Shade			
	PFA106	Mount Adapter			
Accessories	PFB220C	Celling Mount			
(optional)	PFB200C	In-Celling Mount			
	PFM321D	DC12V1A Power Adapter			
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender			
	PFM900-E	Integrated Mount Tester			
	PFM114	TLC SD Card			

## **Accessories**

# **Optional:**







PFA137 Junction Box

PFB203W Wall Mount

PFA152-E Pole Mount



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PFA200W Rain Shade

PFA106 Mount Adapter

PFB220C Celling Mount







PFB200C In-Celling Mount

PFM321D DC12V1A Power Adapter

LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



Tester

PFM900-E Integrated Mount



PFM114 TLC SD Card

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA137	PFA137+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount	In-Ceiling Mount		
PFA106+PFB220C	PFB200C		
	8		

# Dimensions (mm[inch])





