

# DH-IPC-HDBW2531R-ZS-S2

5MP Lite IR Vari-focal Dome Network Camera



- $\cdot$  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
- Supports max. 256 GB Micro SD card
- 12V DC/PoE power support
- IP67, IK10 protection grade



### 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.

# 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.



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

# **Technical Specification**

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Camera						
Image Sensor		1/2.7" 5Megapixel progressive CMOS				
Effective Pixels		2592 (H) × 1944 (V)				
ROM		128 MB	128 MB			
RAM		256 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				
Min. Illumination		0.008 Lux @ F1.5				
IR Distance		40 m (131.2 ft)				
IR On/Off Control		Auto/Manual				
IR LEDs Number		2				
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°				
Lens						
Lens Type		Motorized vari-focal				
Mount Type		φ14				
Focal Length		2.7 mm–13.5 mm				
Max. Aperture		F1.5				
Field of View		Pan: 100°–26° Tilt: 72°–20° Diagonal: 133°–33°				
Iris Type		Fixed aperture				
Close Focus Distance		0.8m–0.8m (2.62 ft–2.62 ft)				
	Lens	Detect	Observe	Recognize	Identify	
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)	
	т	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)	
Smart Event						
General IVS Anal	ytics	Tripwire; intrusion				
Video						
Video Compression		H.265; H.264; H.264B; MJPEG				
Smart Codec		Yes				
Video Frame Rate		Main stream: 2592 × 1944 (1 fps-20 fps) 2688 × 1520 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				
Stream Capability		2 streams				
Resolution		2592×1944(2592×1944); 2688×1520(2688×1520); 3M(2048×1536); 2304×1296(2304×1296); 1080p(1920×1080); 1.3M (1280 × 960); 720p(1280×720); D1(704× 576/704×480); VGA(640×480); CIF(352×288/352×240)				

White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest(RoI)	Yes (4 areas)
Smart IR	Yes
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688×1520 resolution and lower.)
Mirror	Yes
Privacy Masking	4 areas
Network	
Network	RJ-45 (10/100 Base-T)
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; 802.1x; Bonjour
Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
User/Host	20
Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Browser	IE Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android
Certification	
Certifications	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
Power	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 7.9W
Environment	
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than $\leq$ 95%
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67; IK10
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Bit Rate Control

Video Bit Rate

Day/Night

BLC

HLC

WDR

CBR/VBR

Yes

Yes

120 dB

H.264: 32 Kbps-8192 Kbps H.265: 12 Kbps-8192 Kbps

Auto(ICR)/Color/B/W

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

### 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**

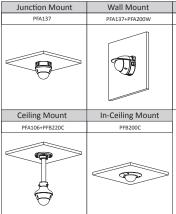
Туре	Part Number	Description
5MP Camera	DH-IPC-HDBW2531RP-ZS-S2	5MP Lite IR Vari-focal Dome Network Camera,PAL
	DH-IPC-HDBW2531RN-ZS-S2	5MP Lite IR Vari-focal Dome Network Camera,NTSC
	PFA137	Junction Box
	PFB203W	Wall Mount
Accessories (optional)	PFA152-E	Pole Mount
	PFA200W	Rain Shade
	PFA106	Mount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

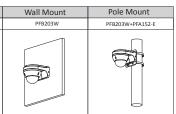


Tester

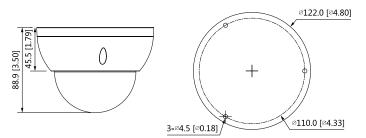


PFM114 TLC SD Card





# Dimensions (mm[inch])



### Accessories

# **Optional:**



PFA137 Junction Box



PFA200W Rain Shade



PFB200C In-Celling Mount



PFB2O3W Wall Mount



PFA106 Mount Adapter



PFM321D DC12V1A Power Adapter

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PFA152-E Pole Mount

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PFB220C Celling Mount



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

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