

# 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 max. 5MP (2592 × 1944) @20 fps, and supports 2688 ×1520 (2688 × 1520) @25/30 fps
- Support Triple Stream
- 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 NR, 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 supply
- IP67, IK10 protection















#### **Series Overview**

With upgraded H.265 encoding technology, Dahua Lite series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 (Supported by some select models).

#### **Functions**

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

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

#### WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

#### Starlight

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

#### **IVS**

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

#### **Cyber Security**

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

#### 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				2592×1944(2592×1944); 2688×1520(2688×1520);
Camera				25721374(23241374), 250041226(250041226), 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)
Image Sensor 1/2.7" 5Megapixel progressive 0	1/2.7" 5Megapixel progressive CMOS			
Max. Resolution 2592 (H) × 1944 (V)	2592 (H) × 1944 (V)			CDD 4/DD
ROM 128 MB	128 MB			CBR/VBR H.264: 32 Kbps-8192 Kbps
RAM 256 MB	256 MB			H.265: 12 Kbps–8192 Kbps
Scanning System Progressive			Day/Night	Auto(ICR)/Color/B/W
Electronic Shutter Speed Auto/Manual 1/3 s–1/100000 s	S		BLC	Yes
Min. Illumination 0.008 Lux @ F1.5			HLC	Yes
S/N Ratio >56 dB			WDR	120 dB
Illumination Distance 40 m (131.2 ft)	40 m (131.2 ft)			Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator On/Off Control Auto/Manual			Gain Control	Auto/Manual
Illuminator Number 2 (IR LED)			Noise Reduction	3D NR
Pan: 0°–355° Pan/Tilt/Rotation Range Tilt: 0°–75°			Motion Detection	OFF/ON (4 areas, rectangular)
Rotation: 0°–355°			Region of Interest(RoI)	Yes (4 areas)
Lens				Yes
Lens Type Motorized vari-focal	Motorized vari-focal			$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with $2592\times1944$ resolution and lower.)
Mount Type φ14	ф14		Mirror	Yes
Focal Length 2.7 mm-13.5 mm	2.7 mm-13.5 mm		Privacy Masking	4 areas
Max. Aperture F1.5	F1.5		Alarm	
Field of View  Horizontal: 100°–26°  Vertical: 72°–20°  Diagonal: 133°–33°	Vertical: 72°–20°		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; safety exception
Iris Type Fixed	Fixed		Network	
Close Focus Distance 0.8m–0.8m (2.62 ft–2.62 ft)	0.8m-0.8m (2.62 ft-2.62 ft)		Network	RJ-45 (10/100 Base-T)
	Recognize	Identify	SDK and API	Yes
W/	12.8 m (41.99 ft)	6.4 m (21 ft)		Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
T 220 m 88 m (721.78 ft) (288.71 ft) (2	44 m (144.36 ft)	22 m (72.18 ft)	Cyber Security	
Smart Event				
IVS Tripwire; intrusion	IVS Tripwire; intrusion		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP;
Video				NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Video Compression H.265; H.264; H.264B; MJPEG (only supported by the sub stream)		ed by the	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Smart Codec Smart H.265+/ Smart H.264+	art Codec Smart H.265+/ Smart H.264+		User/Host	20
Main stream:			Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
Video Frame Rate 2688 × 1520 (1 fps-25/30 fps) Sub stream:				IE Chrome Firefox
				Smart PSS; DSS; DMSS
Stream Capability 3 streams	3 streams			IOS; Android

#### Certification

#### 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 ≤ 95%
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection	IP67; IK10

#### Structure

Casing	Metal
Dimensions	Ф122 mm × 88.9 mm (Ф4.80" × 3.50")
Net Weight	0.47 kg (1.1 lb)
Gross Weight	0.63 kg (1.4 lb)

## **Ordering Information**

Ordering mornation				
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		
Accessories (optional)	PFA137	Junction Box		
	PFB203W	Wall Mount		
	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		

### Accessories

## **Optional:**







PFA137 Junction Box

PFB203W Wall Mount

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

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

## Dimensions (mm[inch])



