

DH-IPC-HDBW2531R-ZAS-S2

5MP Lite IR Vari-focal Dome Network Camera



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 and IK10 (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.

- 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
- 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
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- 12V DC/PoE power supply
- IP67, IK10 protection grade















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); 3M(2048×1536); 2304×1296(2304×1296); 1080p(1920×1080); 1.3M(1280 × 960); 720p(1280×720);
Camera							Resolution	
Image Sensor		1/2.7" 5Megapixel progressive CMOS						D1(704×576/704×480); VGA(640×480); CIF(352×288/352×240)
Max. Resolution		2592 (H) × 1944 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
RAM		256 MB					Day/Night	Auto(ICR)/Color/B/W
Scanning System	1	Progressive					BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					HLC	Yes
Min. Illumination	า	0.008 Lux @ F1.5					WDR	120 dB
S/N Ratio		>56 dB					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Illumination Dist	ance	40 m (131.2 ft)					Gain Control	custom Auto/Manual
Illuminator On/C	Off Control	Auto/Manual					Noise Reduction	3D NR
Illuminator Num	ber	2 (IR LED)					Motion Detection	
Pan/Tilt/Potation	n Danga	Pan: 0°-355° Tilt: 0°-75°						OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation	ii Kalige	Rotation: 0°–	355°				Region of Interest(RoI) Smart Illumination	Yes (4 areas)
Lens							Sillart illullillation	Yes 0°/90°/180°/270° (Supports 90°/270° with 2592 × 1944
Lens Type		Motorized vari-focal					Image Rotation	resolution and lower.)
Mount Type		ф14					Mirror	Yes
Focal Length		2.7 mm-13.5 mm					Privacy Masking	4 areas
Max. Aperture		F1.5					Audio	
		Horizontal: 10	00°–26°				Audio Compression	G.711a; G.711Mu; G.726
Field of View		Vertical: 72°–20° Diagonal: 133°–33°					Alarm	N 60 160 161160 1 1 1
Iris Type		Fixed					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; audio detection; safety exception; local alarm
Close Focus Dista	ance	0.8m-0.8m (2.62 ft-2.62 ft)						
	Lens	Detect	Observe	Recognize	Identify		Network	
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)		Network	RJ-45 (10/100 Base-T)
	Т	220 m	88 m	44 m	22 m		SDK and API	Yes
	·	(721.78 ft)	(288.71 ft)	(144.36 ft)	(72.18 ft)			Video encryption; firmware encryption; configuration
Smart Event							Cyber Security	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
IVS		Tripwire; intrusion						
Video	Video						IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;	
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Smart Codec		Smart H.265+/ Smart H.264+					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
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)					User/Host	20
							Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
							Browser	IE Chrome Firefox
Stream Capability		2 streams					Management Software	Smart PSS; DSS; DMSS

Lite Series DH-IPC-HDBW2531R-ZAS-S2				
Mobile Phone	IOS; Android			
Certification				
Certifications	CE-LVD: EN62368-1 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			
Port				
Audio Input	1 channel (RCA port)			
Audio Output	1 channel (RCA port)			
Alarm Input	1 channel In: 5mA 5VDC			
Alarm Output	1 channel Out: 300mA 12VDC			
Power				
Power Supply	12V DC/PoE (802.3af)			
Power Consumption	< 8.0W			
Environment				
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than ≤ 95%			

Structure

Protection

Storage Temperature

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)

IP67, IK10

-40°C to +60°C (-40°F to +140°F)

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			
Rev 001.001 © 2	PFM114 D20 Dahua. All rights reserved. Design and specific	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



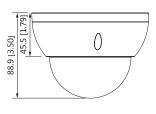
PFM900-E Integrated Mount Tester

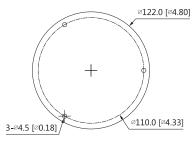


PFM114 TLC SD Card

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])





© 2020 Dahua. All rights reserved. Design and specifications are subject to change we Pictures in the document are for reference only, and the actual product shall prevail.