

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 Control	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	Auto(ICR)/Color/B/W	
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 Balance	custom	
Min. Illumination		0.008 Lux @ F1.5					Gain Control	Auto/Manual	
IR Distance		40 m (131.2 ft)					Noise Reduction	3D DNR	
IR On/Off Contro	IR On/Off Control		Auto/Manual				Motion Detection	OFF/ON (4 areas, rectangular)	
IR LEDs Number		2					Region of Interest(RoI)	Yes (4 areas)	
		Pan: 0°-355°					Smart IR	Yes	
Pan/Tilt/Rotation Range		Tilt: 0°–75° Rotation: 0°–355°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)	
Lens							Mirror	Yes	
Lens Type		Motorized vari-focal					Privacy Masking	4 areas	
Mount Type		ф14					Audio		
Focal Length		2.7 mm-13.5 mm					Audio Compression	G.711a; G.711Mu; G.726; AAC	
Max. Aperture		F1.5					Network		
Field of View		Pan: 100°-26 Tilt: 72°-20°	0				Network	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; 802.1x; Bonjour	
Close Focus Dist	ance	0.8m-0.8m (2	2.62 ft–2.62 ft)						
	Lens	Detect	Observe	Recognize	Identify		Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; 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	20	
	Т	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)		Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
Smart Event							Browser	IE Chrome	
General IVS Ana	lytics	Tripwire; intrusion					biowsei	Firefox	
Video							Management Software	Smart PSS; DSS; DMSS	
Video Compress	ion	H.265; H.264; H.264B; MJPEG					Mobile Phone	IOS; Android	
Smart Codec		Yes					Certification		
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)					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	
Stream Capability		2 streams					Port		
			2592×1944(2592×1944); 2688×1520(2688×1520); 3M(2048×1536); 2304×1296(2304×1296);				Audio Input	1 channel (RAC port)	
Resolution		5M(2046X1536); 2504X1296(2504X1296); 1080p(1920×1080); 1.3M (1280 × 960); 720p(1280×720); D1(704×576/704×480); VGA(640×480); CIF(352×288/352×240)					Audio Output	1 channel (RAC port)	
							Alarm Input	1 channel In: 5mA 5V DC	

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Alarm Output	1 channel Out: 300mA 12 VDC	
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 %	
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







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])





