

DH-IPC-HDBW2531R-ZS-S2

5MP Lite IR Vari-focal Dome Network Camera



- 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.



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					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Gain Control	Auto/Manual	
Min. Illumination		0.008 Lux / F1.5(Color, 1/3s, 30IRE), 0.007 Lux/F1.5 (Black&White), 0Lux/F1.5(Black & White, IR on)					Noise Reduction	3D DNR	
IR Distance	IR Distance		40 m (131.2 ft)				Motion Detection	OFF/ON (4 areas, rectangular)	
IR On/Off Contro	ol	Auto/Manual					Region of Interest(RoI)	Yes (4 areas)	
IR LEDs Number	IR LEDs Number						Smart IR	Yes	
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75°					Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688×1520 resolution and lower.)	
Long		Rotation: 0°-	355°		Mirror Yes		Yes		
Lens							Privacy Masking	4 areas	
Lens Type		Motorized vari-focal					Network		
Mount Type		φ14					Network	RJ-45 (10/100 Base-T)	
Focal Length Max. Aperture		2.7 mm–13.5 mm F1.5					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;Bonjour;	
Field of View		Pan: 100°–26° Tilt: 72°–20° Diagonal: 133°–33°					Interoperability	IEEE802.1x; SNMP ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
Iris Type		Fixed aperture					, ,	General	
Close Focus Distance		0.8m-0.8m (2.62 ft-2.62 ft)					User/Host	20	
	Lens	Detect	Observe	Recognize	Identify		Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
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)		Browser	IE Chrome Firefox	
	Т	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)		Management Software	Smart PSS; DSS; DMSS	
Smart Event							Mobile Phone	IOS; Android	
General IVS Anal	lytics	Tripwire; intrusion					Certification		
Video								CE-LVD: EN60950-1	
Video Compress	ion	H.265; H.264; H.264B; MJPEG					Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU	
Smart Codec		Yes						FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
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)					Power		
							Power Supply	12V DC/PoE (IEEE802.3af)	
							Power Consumption	< 7.9W	
Stream Capability		2 streams					Environment		
							Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than ≤95%	
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)					Storage Temperature	-40°C to +60°C (-40°F to +140°F)	
							Protection Grade	IP67; IK10	
		CII (JJZ^Z00/JJZ^Z4U)							

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						
Туре	Part Number	Description				
5MP	DH-IPC-HDBW2531RP-ZS-S2	5MP Lite IR Vari-focal Dome Network Camera,PAL				
Camera	DH-IPC-HDBW2531RN-ZS-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



PFA200W Rain Shade



PFB200C In-Celling Mount



PFB203W Wall Mount



PFA106 Mount Adapter



PFM321D DC12V1A Power Adapter



PFA152-E Pole Mount



PFB220C Celling Mount



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



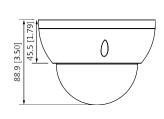
PFM900-E Integrated Mount Tester

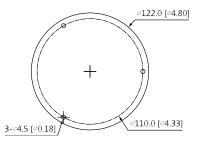


PFM114 TLC SD Card

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA137	PFA137+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount	In-Ceiling Mount		4
PFA106+PFB220C	PFB200C		

Dimensions (mm[inch])







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