

DH-IPC-HDBW2531E-S-S2

5MP Lite IR Fixed-focal Dome Network Camera



- 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: 30 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 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.

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. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, Dahua network camera better meets the demands of cyber security and privacy protection.

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 $\pm 30\%$ (for some power supplies) 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							Resolution	3M(2048×1536); 2304×1296(2304×1296); 1080p(1920×1080); 1.3M (1280 × 960); 720p(1280×720);
Image Sensor		1/2.7" 5Megapixel progressive CMOS						D1(704× 576/704×480); VGA(640×480); CIF(352×288/352×240)
Max. Resolution	1	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	n	Progressive					BLC	Yes
Electronic Shutt	er Speed	Auto/Manua	l 1/3 s–1/10000	00 s			HLC	Yes
Min. Illumination	n	0.008 Lux @ F1.6					WDR	120 dB
S/N Ratio		> 56 dB					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Illumination Distance		30 m (98.43 ft)					Gain Control	custom Auto/Manual
Illuminator On/0	Off Control	Auto/Manual					Noise Reduction	3D NR
Illuminator Num	ber	3 (IR LED)					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotatio	on Range	Pan: 0°–355° Tilt: 0°–65°					Region of Interest(RoI)	Yes (4 areas)
rany mity Notation Range		Rotation: 0°–355°					Smart Illumination	Yes
Lens								0°/90°/180°/270° (Supports 90°/270° with 2592 × 1944
Lens Type		Fixed					Image Rotation	resolution and lower.)
Mount Type		M12					Mirror	Yes
Focal Length		2.8 mm 3.6 mm					Privacy Masking	4 areas
Max. Aperture		F1.6 F1.6					Alarm	
Field of View		2.8 mm: Horizontal 103.0° × Vertical 71.0° × Diagonal 132.0° 3.6 mm: Horizontal: 84.0° × Vertical 58.0° × Diagonal 110.0°					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					Network	
Close Focus Dist	ance	2.8 mm: 0.9 m (2.95 ft)					Network	RJ-45 (10/100 Base-T)
Close Focus Disc	Lens	3.6 mm: 1.6 m (5.25 ft) Detect Observe Recognize Identify			Identify		SDK and API	Yes
DORI Distance	2.8mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (19.37 ft)		Cyber Security	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
	3.6mm	80 m (262.47 ft)	32 m (104.99 ft)	16 m (52.49 ft)	8 m (26.25 ft)			
Smart Event								IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;
IVS		Tripwire; intrusion					Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Video								ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone;
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					Interoperability	Genetec
Smart Codec		Smart H.265+/ Smart H.264+					User/Host	20
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)					Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
							Browser	IE Chrome Firefox
		704 × 480 (1 fps-30 fps)					Management Software	Smart PSS; DSS; DMSS
Stream Capability		2 streams					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

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 6.1W

Environment

Power Consumption	-40°C to +60°C (-40°F to +140°F)/less than \leq 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection	IP67, IK10		

Structure

Casing	Metal
Dimensions	81 mm × Φ109.9 mm (3.19" × Φ4.33")
Net Weight	0.350 kg (0.77 lb)
Gross Weight	0.491 kg (1.08 lb)

Ordering Information Part Number Type Description 5MP Lite IR Fixed-focal Dome DH-IPC-HDBW2531EP-S-S2 Network Camera, PAL 5MP Camera 5MP ILite IR Fixed-focal Dome DH-IPC-HDBW2531EN-S-S2 Network Camera, NTSC Junction Box PFA136 PFA200W Rain Shade PFB203W Wall Mount PFA152-E Pole Mount PFA106 Mount Adapter Accessories (optional) PFB220C Celling Mount PFM321D DC12V1A Power Adapter Single-port Long Reach Ethernet LR1002-1ET/1EC Over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

Accessories

Optional:



Junction Box





PFA200W Rain Shade



PFB203W Wall Mount



PFA152-E Pole Mount



PFA106 Mount Adapter



PFB220C 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
PFA136	PFA136+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount			
PFA106+PFB220C			

Dimensions (mm[inch])



