

DH-IPC-HFW2531S-S-S2

5MP Lite IR Fixed-focal Bullet 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 protection













System 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.

Protection (IP67, 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.

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.



Lite Series | DH-IPC-HFW2531S-S-S2

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);
Image Sensor		1/2.7" 5Megapixel progressive CMOS					720p(1280×720); 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		Progressive				BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				HLC	Yes
Min. Illumination		0.008 Lux@F1.6				WDR	120 dB
S/N Ratio		> 56 dB				White Balance	Auto/natural/street lamp/outdoor/manual/regional
Illumination D	istance	30 m (98.43 ft)					custom
Illuminator Or	/Off Control	Auto/Manual				Gain Control	Auto/Manual
Illuminator Number		1 (IR LED)				Noise Reduction	3D NR
Don/Tilt/Dotation Dance		Pan: 0°–360° Tilt: 0°–90°				Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation Range		Rotation: 0°–360°				Region of Interest(RoI)	Yes (4 areas)
Lens						Smart Illumination	Yes
Lens Type		Fixed				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with $2592 \times 194^{\circ}$ 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 Tyne		-				Network	
Iris Type		Fixed aperture				Network	RJ-45 (10/100 Base-T)
Close Focus Di	stance	2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (3.61 ft)				SDK and API	Yes
DORI	Lens	Detect 56 m	Observe 22.4 m	Recognize	Identify 5.6 m	Colour Consuits	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
Distance	2.8 mm 3.6 mm	(183.73 ft) 80 m (262.47 ft)	(73.49 ft) 32.0 m (104.99 ft)	(36.75 ft) 16.0 m (52.49 ft)	(18.37 ft) 8.0 m (26.25 ft)	Cyber Security	
Smart ever	nt	(202.47 10)	(104.3310)	(32.43 10)	(20.23 11)		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						Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)				User/Host	20
Smart Codec		Smart H.265+/ Smart H.264+				Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
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)				Browser	IE Chrome Firefox
		704 × 480 (1 fps-30 fps)				Management Software	Smart PSS; DSS; DMSS
Stream Capability		2 streams				Mobile Phone	IOS; Android

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Certification

	CE-LVD: EN62368-1
	CE-EMC: Electromagnetic Compatibility Directive
Certifications	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	< 5.6W	

Environment

Operating Conditions	-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

Structure

Casing	Metal
Dimensions	166.2 mm × Φ70 mm (6.54" × Φ2.76")
Net Weight	0.48 kg (1.1 lb)
Gross Weight	0.57 kg (1.3 lb)

Ordering Information Type Part Number Description 5MP Lite IR Fixed-focal Bullet Network HFW2531SP-S-S2 Camera,PAL 5MP Camera DH-IPC-5MP Lite IR Fixed-focal Bullet Network HFW2531SN-S-S2 Camera,NTSC PFA134 Junction Box PFA152-E Pole Mount PFM321D DC12V1A Power Adapter Accessories (optional) Single-port Long Reach Ethernet over Coax LR1002-1ET/1EC Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

Accessories

Optional:



PFA134 Junction Box



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



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card

Pole Mount	Junction Mount
PFA134+PFA152-E	PFA134
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Dimensions (mm[inch])

