

DH-IPC-HFW2531T-ZS-S2

5MP Lite IR Vari-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: 60 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













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 (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, 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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Sp	ecificatio	on						
Camera							2592×1944(2592×1944); 2688×1520(2688×1520); 3M(2048×1536); 2304×1296(2304×1296);	
Image Sensor		1/2.7" 5Megapixel progressive CMOS					Resolution	1080p(1920×1080); 1.3M (1280 × 960); 720p(1280×720); D1(704x 576/704×480); VGA(640×480); CIF(352×288/352×240)
Max. Resolution		2592 (H) × 1944 (V)						
ROM		128 MB					Bit Rate Control	CBR/VBR
RAM		256 MB					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
Scanning System		Progressive					Day/Night	Auto(ICR)/Color/B/W
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s					BLC	Yes
Min. Illumination		0.008 Lux@F1.5					HLC	Yes
S/N Ratio		>56 dB					WDR	120 dB
Illumination Distance		60 m (196.8 ft)					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Illuminator On/Off Control		Auto/Manual						custom
Illuminator Number		4 (IR LED)					Gain Control	Auto/Manual
		Pan: 0°-360°					Noise Reduction	3D NR
Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°					Motion Detection	OFF/ON (4 areas, rectangular)
Lens							Region of Interest(RoI)	Yes (4 areas)
Lens Type		Motorized vari-focal					Smart Illumination	Yes
Mount Type		ф14					Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2592 \times 1944 resolution and lower.)
Focal Length		2.7 mm-13.5 mm					Mirror	Yes
Max. Aperture		F1.5					Privacy Masking	4 areas
Field of View		Horizontal: 100°–26° Vertical: 72°–20° Diagonal: 133°–33°					Alarm	
Iris Type		Fixed					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video
Close Focus Distance		0.8m–0.8m (2.62 ft–2.62 ft)					7.00 276	tampering; tripwire; intrusion; illegal access; voltage detection; safety exception
	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 (21.00 ft)		Network	RJ-45 (10/100 Base-T)
20111 Distance		220 m	88 m	44 m	22 m		SDK and API	Yes
Т		(721.78 ft) (288.71 ft) (144.36 ft) (72.18 ft)					Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;	
Smart Event							Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted
IVS		Tripwire; intr	usion					execution; trusted upgrade
Video			Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP;				
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)						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

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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	< 9.9W	
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 Structure

Casing	Metal
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")
Net Weight	0.86 kg (2.0 lb)
Gross Weight	1.10 kg (2.5 lb)

IP67

Ordering Information				
Туре	Part Number	Description		
5MP Camera	DH-IPC-HFW2531TP-ZS-S2	5MP Lite IR Vari-focal Bullet Network Camera,PAL		
	DH-IPC-HFW2531TN-ZS-S2	5MP Lite IR Vari-focal Bullet Network Camera,NTSC		
	PFA130-E	Junction Box		
	PFA152-E	Pole Mount		
Accessories	PFM321D	DC12V1A Power Adapter		
(optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender		
	PFM900-E	Integrated Mount Tester		
	PFM114	TLC SD Card		

Accessories

Optional:



PFA130-E 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	
PFA130-E+PFA152-E	PFA130-E	

Dimensions (mm[inch])





