

DH-IPC-HFW2831T-ZS-S2

8MP Lite IR Vari-focal Bullet Network Camera



- · 8MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- · Outputs max. 8MP (3840 × 2160) @15 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 disconnection, 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.

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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Sp	ecificatio	on						3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048);
Camera					Resolution	3072 ×1728 (3072 × 1728); 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)		
Image Sensor		1/2.7" 8Megapixel progressive CMOS						
Max. Resolution		3840 (H) × 2160 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB					Video Bit Rate	H.264: 32 kbps-8192 kbps
RAM		256 MB					Dec /Nicha	H.265: 12 kbps–8192 kbps
Scanning System		Progressive					Day/Night	Auto(ICR)/Color/B/W
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					BLC	Yes
Min. Illumination	1	0.008 Lux@F1.5					HLC	Yes
S/N Ratio		>56 dB					WDR	120 dB
Illumination Dista	ance	60 m (196.85	ft)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator On/O	ff Control	Auto/Manual					Gain Control	Auto/Manual
Illuminator Numl	ber	4 (IR LED)					Noise Reduction	3D NR
Dan/Tilt/Datation	o Dango	Pan: 0°-360°					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°				Region of Interest(RoI)	Yes (4 areas)	
Lens						Smart Illumination	Yes	
Lens Type		Motorized vari-focal					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
Mount Type		ф14					Mirror	Yes
Focal Length		2.7 mm-13.5 mm					Privacy Masking	4 areas
Max. Aperture		F1.5				Alarm		
Field of View		Horizontal: 113°–31° Vertical: 58°–17° Diagonal: 138°–36°					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 Dista	ance	0.8 m-0.8 m (2.62 ft-2.62 ft)					DL 45 (40/400 D T)	
	Lens	Detect	Observe	Recognize	Identify		Network	RJ-45 (10/100 Base-T)
DORI Distance	W	85.3 m (279.9 ft)	34.1 m (111.9 ft)	17 m (55.8 ft)	8.5 m (27.9 ft)		SDK and API	Yes
	Т	280 m (918.6 ft)	112 m (367.5 ft)	56 m (183.7 ft)	28 m (91.9 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
Smart Event								execution; trusted upgrade
IVS		Tripwire; intrusion					Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Video								
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Smart Codec		Smart H.265+/ Smart H.264+					User/Host	20
Video Frame Rate		Main stream:					Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
		3840 × 2160 (1 fps-15 fps) 2688 × 1520 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				Browser	IE Chrome Firefox	
						Management Software	Smart PSS; DSS; DMSS	
Stream Capability	у	2 streams				Mobile Phone	IOS; Android	

Certification

CE-EMIC: 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	Certifications	FCC: 47 CFR FCC Part 15, Subpart B
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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% RH
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection	IP67

Structure

Casing	Metal
Dimensions	Φ244.1 mm × 90.4 mm (Φ9.61" × 3.26")
Net Weight	0.86 kg (1.90 lb)
Gross Weight	1.10 kg (2.43 lb)

Ordering Information				
Туре	Part Number	Description		
8MP Camera	DH-IPC-HFW2831TP-ZS-S2	8MP Lite IR Vari-focal Bullet Nework Camera,PAL		
	DH-IPC-HFW2831TN-ZS-S2	8MP Lite IR Vari-focal Bullet Nework CameraNTSC		
	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



PFM321D DC12V1A Power Adapter









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

PFM900-E Integrated Mount Tester

PFM114 TLC SD Card

Pole Mount	Junction Mount
PFA130-E+PFA152-E	PFA130-E

Dimensions (mm[inch])



