

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

Technical Specification					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 ×				
Image Sensor		1/2.7" 8Megapixel progressive CMOS						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)
Max. Resolution		3840 (H) × 2160 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB						H.264: 32 kbps–8192 kbps
RAM		256 MB					Video Bit Rate	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		0.008 Lux@F	1.5				HLC	Yes
S/N Ratio		>56 dB					WDR	120 dB
Illumination Distance		60 m (196.85 ft)					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator On/C	off Control	Auto/Manual					Gain Control	Auto/Manual
Illuminator Num	ber	4 (IR LED)					Noise Reduction	3D NR
Dan/Tilt/Botation	n Danga	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°/90°/180°/270° (Supports 90°/270° 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)					Network	RJ-45 (10/100 Base-T)
	Lens	Detect	Observe	Recognize	Identify			
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
Smart Event		(310.0 11) (307.3 11) (103.7 11) (31.		(31.310)		cyber security	certification; syslog; HTTPS; 802.1x; trusted boot; trusted 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: 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)					Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
							Browser	IE Chrome Firefox
							Management Software	Smart PSS; DSS; DMSS
Stream Capability		2 streams					Mobile Phone	IOS; Android

Certification

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	Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU 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	Ф244.1 mm × 90.4 mm (Ф9.61" × 3.26")
Net Weight	0.86 kg (1.90 lb)
Gross Weight	1.10 kg (2.43 lb)

Ordering Information Part Number Type Description 8MP Lite IR Vari-focal Bullet Nework DH-IPC-HFW2831TP-ZS-S2 Camera,PAL 8MP Camera 8MP Lite IR Vari-focal Bullet Nework DH-IPC-HFW2831TN-ZS-S2 CameraNTSC PFA130-E Junction Box PFA152-E Pole Mount PFM321D DC12V1A Power Adapter Accessories (optional) Single-port Long Reach Ethernet LR1002-1ET/1EC over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

Accessories

Optional:







PFM321D

DC12V1A Power Adapter

PFA130-E Junction Box



PFA152-E Pole Mount



256 SET

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])



