

DH-IPC-HFW2831T-ZAS-S2

8MP Lite IR Vari-focal Bullet Network Camera



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

Functions

Smart H.265+ & Smart H.264+

by some select models).

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.

- · 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, local alarm, voltage detection, audio abnormal
- \cdot Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- · 12V DC/PoE power supply
- · IP67 protection













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 Sp	ecificati	on						3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048);
Camera							Resolution	3072 × 1203 (3840 × 2100), 3072 × 2046 (3072 × 2046), 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
Image Sensor		1/2.7" 8Megapixel progressive CMOS						
Max. Resolution		3840 (H) × 21	60 (V)					(640 × 480); CIF (352 × 288/352 × 240)
ROM		128 MB					Bit Rate Control	CBR/VBR
RAM		256 MB					Video Bit Rate	H.264: 32 kbps-8192 kbps
Scanning System		Progressive						H.265: 12 kbps–8192 kbps
Electronic Shutter Speed		Auto/Manual	1/3 s-1/100,0	00 s			Day/Night	Auto(ICR)/Color/B/W
Min. Illumination		0.008 Lux@F1.5					BLC	Yes
S/N Ratio		>56 dB					HLC	Yes
Illumination Distance		60 m (196.85 ft)					WDR	120 dB
Illuminator On/Off Control		Auto/Manual					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator Num	ber	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 va	ri-focal				Smart Illumination	Yes
Mount Type		ф14					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 3840×2160 resolution and lower.)
Focal Length		2.7 mm–13.5 mm					Mirror	Yes
Max. Aperture		F1.5					Privacy Masking	4 areas
							Audio	
Field of View		Horizontal: 113°–31° Vertical: 58°–17°					Audio Compression	G.711a; G.711Mu; G.726
		Diagonal: 138°–36°					Alarm	
Iris Type		Fixed						No SD card; SD card full; SD card error; network
Close Focus Distance Lens		0.8 m–0.8 m Detect	(2.62 ft–2.62 ft Observe	Recognize	Identify		Alarm Event	disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception; local alarm
DON Distance	W	85.3 m	34.1 m	17 m	8.5 m		Network	
DORI Distance		(279.9 ft) 280 m	(111.9 ft) 112 m	(55.8 ft) 56 m	(27.9 ft) 28 m		Network	RJ-45 (10/100 Base-T)
	Т	(918.6 ft)	(367.5 ft)	(183.7 ft)	(91.9 ft)		SDK and API	Yes
Smart Event								Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs
IVS		Tripwire; intrusion					Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted
Video								execution; trusted upgrade
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					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
Smart Codec		Smart H.265+/ Smart H.264+					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone;
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)						Genetec
							User/Host	20
							Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Stream Capability		2 streams					Browser	IE Chrome Firefox

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Management Software	Smart PSS; DSS; DMSS	
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	
Port		
Audio Input	1 channel (RCA port)	
Audio Output	1 channel (RCA port)	
Alarm Input	1 channel In: 5mA 5V DC	
Alarm Output	1 channel Out: 300mA 12V DC	

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 $\leq 95\%$ RH
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection	IP67

Structure

Casing	Metal
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")
Net Weight	0.88 kg (1.9 lb)
Gross Weight	1.14 kg (2.5 lb)

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

Dimensions (mm[inch])



