

# 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 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.

- $\cdot$  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
- $\cdot$  H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 60 m
- $\cdot$  ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- $\cdot$  Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- $\cdot$  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
- · 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.

# Lite Series | DH-IPC-HFW2831T-ZAS-S2

### **Technical Specification**

Camera					
Image Sensor		1/2.7" 8Megapixel progressive CMOS			
Max. Resolution		3840 (H) × 2160 (V)			
ROM		128 MB			
RAM		256 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.008 Lux@F1.5			
S/N Ratio		>56 dB			
Illumination Distance		60 m (196.85 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		4 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		ф14			
Focal Length		2.7 mm–13.5 mm			
Max. Aperture		F1.5			
Field of View		Horizontal: 113°–31° Vertical: 58°–17° Diagonal: 138°–36°			
Iris Type		Fixed			
Close Focus Distance		0.8 m–0.8 m (2.62 ft–2.62 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	85.3 m (279.9 ft)	34.1 m (111.9 ft)	17 m (55.8 ft)	8.5 m (27.9 ft)
	Т	280 m (918.6 ft)	112 m (367.5 ft)	56 m (183.7 ft)	28 m (91.9 ft)
Smart Event					

IVS	Tripwire; intrusion	
Video		
Video Compression	H.265; H.264; H.264B; MJPEG (only supported by the sub stream)	
Smart Codec	Smart H.265+/ Smart H.264+	
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)	
Stream Capability	2 streams	

Resolution	3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 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)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 12 kbps–8192 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Gain Control	Auto/Manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest(RoI)	Yes (4 areas)		
Smart Illumination	Yes		
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 3840 $\times$ 2160 resolution and lower.)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Audio Compression	G.711a; G.711Mu; G.726		
Alarm			
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; audio detection; safety exception; local alarm		
Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
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 execution; trusted upgrade		
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		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec		
User/Host	20		
Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS		
Browser	IE Chrome Firefox		

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## Lite Series | DH-IPC-HFW2831T-ZAS-S2

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	$-30^{\circ}$ 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	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	
Accessories (optional)	PFA130-E	Junction Box	
	PFA152-E	Pole Mount	
	PFM321D	DC12V1A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender	
	PFM900-E	Integrated Mount Tester	
	PFM114	TLC SD card	

#### Accessories

#### **Optional:**



Junction Box

1 in 12

LR1002-1ET/1EC

Single-port Long

Reach Ethernet over

Coax Extender



PFA152-E

Pole Mount

PFM900-E

Integrated Mount

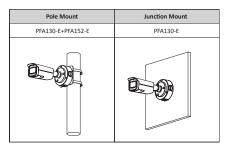
Tester

PFM321D DC12V1A Power

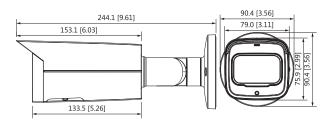


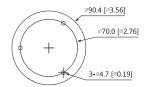
Adapter

PFM114 TLC SD Card



#### Dimensions (mm[inch])







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