

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 DNR, 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 support
- · IP67 protection













System 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 to the standards of IP67 and IK10 (Supported by some select models).

Functions

Smart Codec

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

Dahua Starlight technology mainly applies to the environment of low illuminance, and it can provide clear colorful video. Even in the environment of ultra-low illuminance, the technology can guarantee the good image effect.

IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

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 Specification							Bit Rate Control	CBR/VBR
Camera						ı	Video Bit Rate	H.264: 32 Kbps–8192 Kbps
Image Sensor		1/2.7" 8Megapixel progressive CMOS					Day/Night	H.265: 12 Kbps-8192 Kbps Auto(ICR)/Color/B/W
Effective Pixels		3840 (H) × 2160 (V)					BLC	Yes
ROM		128 MB					HLC	Yes
RAM		256 MB					WDR	120 dB
Scanning System		Progressive						Auto/natural/street lamp/outdoor/manual/regional
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					White Balance	custom
Min. Illumination		0.008 Lux@F1.5					Gain Control	Auto/Manual
IR Distance		60 m (196.85 ft)					Noise Reduction	3D DNR
IR On/Off Control		Auto/Manual					Motion Detection	OFF/ON (4 areas, rectangular)
IR LEDs Number		4					Region of Interest(RoI)	Yes (4 areas)
Don/Tilt/Dotatio							Smart IR	Yes
Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
Lens Type		Motorized vari-focal					Mirror	Yes
							Privacy Masking	4 areas
Mount Type		φ14					Network	
Focal Length		2.7 mm-13.5 mm					Network	RJ-45 (10/100 Base-T)
Max. Aperture Field of View		F1.5 Pan: 113°–31° Tilt: 58°–17° Diagonal: 138°–36°					Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour
Iris Type		Fixed					Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone;
Close Focus Distance		0.8 m-0.8 m (2.62 ft-2.62 ft)						Genetec
	Lens	Detect	Observe	Recognize	Identify		User/Host	Dahua Cloud; FTP; Micro SD Card (support max. 256
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)		Edge Storage	GB); NAS
	Т	280 m (918.6 ft)	112 m (367.5 ft)	56 m (183.7 ft)	28 m (91.9 ft)		Browser	IE Chrome Firefox
Smart Event							Management Software	Smart PSS; DSS; DMSS
General IVS Anal	ytics	Tripwire; intrusion					Mobile Phone	IOS; Android
Video							Certification	
Video Compression		H.265; H.264; H.264B; MJPEG						CE-LVD: EN60950-1
Smart Codec	Smart Codec						Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
			(1 fnc=15 fnc)					UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Video Frame Rate		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)					Power	
							Power Supply	12V DC/PoE (802.3af)
							Power Consumption	< 9.9W
Stream Capability		2 streams					Environment	
Resolution		3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944);					Operating Conditions	-30°C to +60°C (-22 °F to +140°F)/less than ≤ 95% RH
		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); V/GA					Storage Temperature	-40°C to +60°C (-40°F to +140°F)
		960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					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	DH-IPC-HFW2831TP-ZS-S2	8MP Lite IR Vari-focal Bullet Nework Camera,PAL				
Camera	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



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])







