

DH-IPC-HFW2831T-AS-S2

8MP Lite IR Fixed-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 to the standards of IP67 and IK10 (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

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.

- · 8MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- \cdot Outputs max. 8MP (3840 × 2160) @15 fps, and supports 2688×1520 (2688 × 1520) @25/30 fps
- · Support Triple Stream
- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED. max IR distance: 80 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
- · Intelligent detection: Intrusion, tripwire
- \cdot 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 detection
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- · 12V DC/POE power support supply
- · IP67 protection, IK10 protection (optional)













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, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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								3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 ×
Camera							Resolution	
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					Video Bit Rate	H.264: 32 kbps–8192 kbps
RAM		256 MB						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		0.009 Lux@F2.0					HLC	Yes
S/N Ratio		> 56 dB					WDR	120 dB
Illumination Dist	Illumination Distance		ft)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator On/0	Off Control	Auto/Manual					Gain Control	Auto/Manual
Illuminator Num	nber	4 (IR LED)					Noise Reduction	3D NR
D /Tilk /D-+-+i-	- D	Pan: 0°-360°					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotatio	n Kange	Tilt: 0°–90° Rotation: 0°–360°					Region of Interest (RoI)	Yes (4 areas)
Lens							Smart Illumination	Yes
Lens Type		Fixed-focal					Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 3840 × 2160 resolution and lower)
Mount Type		M12					Mirror	Yes
Focal Length		3.6 mm 6 mm					Privacy Masking	4 areas
Max. Aperture		3.6 mm: F2.0 6 mm: F2.0					Audio	
Field of View		3.6 mm: Horizontal 87° × Vertical 47° × Diagonal 104°					Audio Compression	G.711a; G.711Mu; G.726
TICIO OT VICW		6 mm: Horizontal 54° × Vertical 31° × Diagonal 61°					Alarm	
Iris Type		Fixed					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; security exception; local alarm
Close Focus Distance		3.6 mm: 1.9 m (6.2 ft) 6 mm: 3.7 m (12.1 ft)						
	Lens	Detect	Observe 42.7 m	Recognize	Identify		Network	
DORI Distance	3.6 mm	106.7 m (350.1 ft)	(140.1 ft)	21.3 m (69.9 ft)	10.7 m (35.1 ft)		Network	RJ-45 (10/100 Base-T)
	6 mm	160 m (524.9 ft)	64.0 m (210.0 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)		SDK and API	Yes
Smart Event							SDIC dilu AFT	Video encryption; firmware encryption; configuration
IVS		Tripwire; intrusion					Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509
Video								certification; syslog; HTTPS; 802.1x; trusted boot; trusted 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; Milestone; Genetec; P2P
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) Third stream: CIF@1fps					User/Host	20
							Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
							Browser	IE Chrome Firefox
Stream Capability		3 streams					Management Software	Smart PSS; DSS; DMSS

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Lite Series Dn-IPC-nFW28511-A5-52						
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 3V–5V DC					
Alarm Output	1 channel out: 300mA 12V DC					
Power						
Power Supply	12V DC/PoE (802.3af)					
Power Consumption	< 8.4W					
Environment						
Operating Conditions	-40°C to +60°C (-40 °F to +140°F)/less than ≤ 95% RH					
Storage Temperature	-40°C to +60°C (-40°F to +140°F)					
Protection	IP67; IK10(optional)					
Structure						
Casing	Metal					
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")					
Net Weight	0.88 kg (1.9 lb)					
Gross Weight	1.15 kg (2.5 lb)					

Ordering Information						
Туре	Part Number	Description				
8MP	DH-IPC-HFW2831TP-AS-S2	8MP Lite IR Fixed-focal Bullet Nework Camera, PAL				
Camera	DH-IPC-HFW2831TN-AS-S2	8MP Lite IR Fixed-focal Bullet Nework Camera, NTSC				
	PFA130-E	Junction Box				
	PFA152-E	Pole Mount				
Accessories	PFM321D	12V DC 1A 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 12V DC 1A Power Adapter



PFM114 TLC SD Card

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

Dimensions (mm[inch])



