

DH-IPC-HFW2831T-S-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 definition image
- \cdot 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: 80 m
- · Rol, 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 detection
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- · 12 V 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 cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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 works 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);
Camera						Resolution	3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 ×
Image Sensor		1/2.7" 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	tance	80 m (262.5 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
Don/Tilt/Dototio	n Danas	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	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Mount Type		M12 3.6 mm				Mirror	Yes
Focal Length		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° 6 mm: Horizontal 54° × Vertical 31° × Diagonal 61°				Audio Compression	G.711a; G.711Mu; G.726
Iris Type						Alarm	
Iris Type		3.6 mm: 1.9 m (6.2 ft)					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
Close Focus Distance		6 mm: 3.7 m (12.1 ft)				Alarm Event	
	Lens	Detect	Observe	Recognize	Identify		alarm
DORI Distance	3.6 mm	106.7 m (350.1 ft)	42.7 m (140.1 ft)	21.3 m (69.9 ft)	10.7 m (35.1 ft)	Network	
	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)	Network	RJ-45 (10/100 Base-T)
Smart Event		(324.5 11)	(210.011)	(103.011)	(32.3 11)	SDK and API	Yes
IVS		Trinwire: intr	ısion				Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;
Video		Tripwire; intrusion				Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Video Compression		H.265; H.264 by the sub st		EG (only suppo	rted	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:				User/Host	20
			(1 fps–15 fps) (1 fps–25/30 f	os)		Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
		Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)				Browser	IE Chrome Firefox
Stream Capability		2 streams				Management Software	Smart PSS; DSS; DMSS

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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 3 V–5 V DC
Alarm Output	1 channel out: 300mA 12 V DC
Power	
Power Supply	12 V DC/PoE (802.3af)
Power Consumption	< 8.4 W
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 Camera	DH-IPC-HFW2831TP-S-S2	8MP Lite IR Fixed-focal Bullet Nework Camera, PAL				
	DH-IPC-HFW2831TN-S-S2	8MP Lite IR Fixed-focal Bullet Nework Camera, NTSC				
	PFA130-E	Junction Box				
	PFA152-E	Pole Mount				
Accessories	PFM321D	12 V 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])



