

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.

- · 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: 80 m
- · Rol, 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, 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)













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, 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" 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-1/100,0	100 s		BLC	Yes	
S/N Ratio		> 56 dB				HLC	Yes	
Min. Illumination		0.009 Lux@F2.0				WDR	120 dB	
Illumination Dist	tance	80 m (262.5 ft)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Illuminator On/0	Off Control	Auto/Manual				Gain Control	Auto/Manual	
Illuminator Num	ber	4 (IR LED)				Noise Reduction	3D DNR	
		Pan: 0°-360°				Motion Detection	OFF/ON (4 areas, rectangular)	
Pan/Tilt/Rotation Range		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 3840×2160 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°			Audio Compression	G.711a; G.711Mu; G.726; AAC		
tola Traca		6 mm: Horizontal 54° × Vertical 31° × Diagonal 61°			onal O1	Alarm		
Iris Type Close Focus Distance		3.6 mm: 1.9 m (6.2 ft) 6 mm: 3.7 m (12.1 ft)				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio	
	Lens	Detect	Observe	Recognize	Identify		detection; voltage detection; security exception; local alarm	
DORI Distance	3.6 mm	106.7 m	42.7 m	21.3 m	10.7 m	Network		
DOM Distance		(350.1 ft) 160 m	(140.1 ft) 64.0 m	(69.9 ft) 32.0 m	(35.1 ft) 16.0 m	Network	RJ-45 (10/100 Base-T)	
	6 mm	(524.9 ft)	(210.0 ft)	(105.0 ft)	(52.5 ft)	SDK and API	Yes	
Smart Event						IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP;		
IVS		Tripwire; intrusion				Protocol	RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour	
Video		H.265; H.264; H.264B; MJPEG (only supported				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	
Video Compression		by sub stream)				User/Host	20	
Smart Codec		Smart H.265+/ Smart H.264+				Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
Video Frame Rate		Main stream: 3840 × 2160 (1 fps–15 fps) 2688 × 1520 (1 fps–25/30 fps) Sub stream:			Browser	IE Chrome Firefox		
		704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)			Management Software	Smart PSS; DSS; DMSS		
Stream Capability		2 streams			Mobile Phone	IOS; Android		

Certification

Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
	FCC: 47 CFR FCC Part 15, Subpart B
	LIL/CLIL· LIL60950-1 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 Camera	DH-IPC-HFW2831TP-AS-S2	8MP Lite IR Fixed-focal Bullet Nework Camera,PAL	
	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])





