

DH-IPC-HDW2831T-AS-S2

8MP Lite IR Fixed-focal Eyeball Network Camera



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.

- \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: 30 m
- \cdot 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
- \cdot Supports max. 256 GB Micro SD card
- \cdot 12V DC/PoE power support
- · IP67 protection



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.



Lite Series | DH-IPC-HDW2831T-AS-S2

Technical Specification

Camera						
Image Sensor		1/2.7" 8Meg	1/2.7" 8Megapixel progressive CMOS			
Effective Pixels		3840 (H) × 21	3840 (H) × 2160 (V)			
ROM		128 MB	128 MB			
RAM		256 MB	256 MB			
Scanning System		Progressive	Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination		0.009 Lux@F	0.009 Lux@F2.0			
IR Distance		30 m (98.43 t	30 m (98.43 ft)			
IR On/Off Control		Auto/Manua	Auto/Manual			
IR LEDs Number		2	2			
Pan/Tilt/Rotation Range		Tilt: 0°–78°	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens						
Lens Type		Fixed-focal	Fixed-focal			
Mount Type		M12	M12			
Focal Length		2.8 mm 3.6 mm				
Max. Aperture		F2.0 F2.0				
Field of View			2.8 mm: Pan 105° × Tilt 56° × Diagonal 125° 3.6 mm: Pan 87° × Tilt 47° × Diagonal 104°			
Iris Type		Fixed	Fixed			
Close Focus Distance			2.8 mm: 1.0 m (3.3 ft) 3.6 mm: 1.9 m (6.2 ft)			
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	2.8 mm	74.7 m (245.1 ft)	29.9 m (98.1 ft)	14.9 m (48.9 ft)	7.5 m (24.6 ft)	
	3.6 mm	106.7 m (350.1 ft)	42.7 m (140.1 ft)	21.3 m (69.6 ft)	10.7 m (35.1 ft)	
Smart event						
General IVS Analytics		Tripwire; intr	Tripwire; intrusion			
Video						

Smart event		
General IVS Analytics	Tripwire; intrusion	
Video		
Video Compression	H.265; H.264; H.264B; MJPEG	
Smart Codec	Yes	
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 DNR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest(Rol)	Yes (4 areas)		
Smart IR	Yes		
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 \times 1520 resolution and lower.)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Built-in MIC	No		
Audio Compression	G.711A; G.711Mu; G.726; AAC		
Network			
Network	RJ-45 (10/100 Base-T)		
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		
Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec		
User/Host	20		
Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS		
Browser	IE Chrome Firefox		
Management Software	Smart PSS; DSS; DMSS		
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 UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07		

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Power

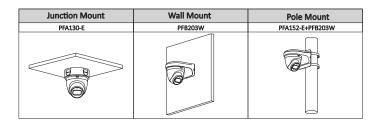
Power Supply	12V DC/PoE (802.3af)		
Power Consumption	< 7.2W		
Environment			
Operating Conditions	−40°C to +60°C (−40°F to +140°F)/less than \leq 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection	IP67		
Structure			
Casing	Metal + Plastic		
Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")		
Net Weight	0.39 kg (0.9 lb)		
Gross Weight	0.56 kg (1.2 lb)		

Ordering Information

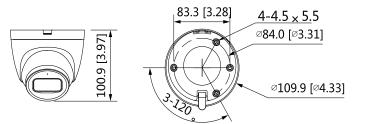
Туре	Part Number	Description	
8MP Camera	DH-IPC- HDW2831TP-AS-S2	8MP Lite IR Fixed-focal Eyeball Network Camera,PAL	
	DH-IPC- HDW2831TN-AS-S2	8MP Lite IR Fixed-focal Eyeball Network Camera, NTSC	
Accessories (optional)	PFA130-E	Junction Box	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	
	PFM321D	DC12V1A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender	
	PFM900-E	Integrated Mount Tester	
	PFM114	TLC SD Card	

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PFM114 TLC SD Card



Dimensions (mm[inch])



Accessories

Optional:



PFA130-E Junction Box



PFM321D DC12V1A Power Adapter



PFB203W Wall Mount



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



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