

DH-IPC-HFW2231T-AS-S2

2MP 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 with 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

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

- 2MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2MP (1920 × 1080)@25/30 fps.
- · Support Triple Stream
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 80 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, appli cable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire.
- Abnormality detection: Motion detection, privacy masking, audio de tection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G micro SD card.
- 12V DC/PoE power supply.
- IP67, 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, 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Main Residual 12 12 15 15 15 15 15 15	Technical Sp	pecificati	on					Main stream:
Max. Resolute								1920 × 1080@1–25/30 fps
Man			1/2.8" CMOS			Video Frame Rate	Third stream: CIF@1fps *The values above are the max. frame rates of each stream; for multiple streams, the values will be	
RAM	Max. Resolution		1920 (H) × 1080 (V)					
Resolution Progressive P	ROM		128 MB				Stream Capability	3 streams
Searoning System	RAM		128 MB					
Min.	Scanning System		Progressive				Resolution	" " " "
Min. Illumination	Electronic Shutter Speed		Auto/Manual	1/3 s-1/100,00	0 s		Bit Rate Control	CBR/VBR
SyN Ratio	Min. Illuminatio	n	0.0002 Lux@F1.6 (B/W, 30 IRE)			Video Bit Rate	·	
Humantor On/Off Control Auto, manual Street lamp; outdoor; manual; regional custom Control Auto, manual Street lamp; outdoor; manual; regional custom Control Auto, manual Street lamp; outdoor; manual; regional custom Control Auto, manual Street lamp; outdoor; manual; regional custom Street	S/N Ratio		> 56 dB				Day/Night	Auto(ICR)/Color/B/W
Illuminator On/Off Control Auto; manual Auto; manual Pan: U" = 500" Pan: U" = 50	Illumination Dis	tance	80 m (262.4 ft	:) (IR)			BLC	Yes
Mylite Balance	Illuminator On/	Off Control	Auto; manual				HLC	Yes
Pan. 0 - 360° Title - 90° Rotation: 0" - 360° Rotation: 0" - 300° Rotation: 0	Illuminator Num	nber	4 (IR LED)				WDR	120 dB
Lens Lens Type	Pan/Tilt/Rotatio	Pan/Tilt/Potation Pango					White Balance	
Lens Type	, ,	. 0-	Rotation: 0°-3	360°			Gain Control	Auto; manual
Region of Interest (Rol) Yes (4 areas)	Lens						Noise Reduction	3D NR
Focal Length 3.6 mm; 8 mm 8 mm Same Same	Lens Type		Fixed-focal			Motion Detection	OFF/ON (4 areas, rectangular)	
Max. Aperture	Lens Mount		M12			Region of Interest (RoI)	Yes (4 areas)	
Max. Aperture 6 mm: £1.6 8 mm: £1.	Focal Length		3.6 mm; 6 mm; 8mm			Smart Illumination	Yes	
Mirror Yes	Max. Aperture		6 mm: F1.6			Image Rotation		
Field of View 6 mm: Horizontal: 54°; Vertical: 29°; Diagonal: 63° 8 mm: Horizontal: 42°; Vertical: 29°; Diagonal: 47° Audio			011111.112.0			Mirror	Yes	
Fixed Audio Compression G.711a; G.711Mu; G.726; PCM	Field of View					Privacy Masking	4 areas	
Close Focus Distance			8 mm: Horizontal: 42°; Vertical: 23°; Diagonal: 47°			Audio		
Close Focus Distance 6 mm: 2.5 m (8.20 ft) 8 mm: 4 m (13.12 ft) Lens Detect Doserve Recognize Identify 3.6 mm 58.9 m (193.24 ft) Recognize Recognize Identify 3.6 mm 158.9 m (193.24 ft) Recognize Recognize Identify Alarm Event Alarm Event Alarm Event No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio abnormality; voltage detection; external alarm; security exception Network Network Network Port RI-45 (10/100 Base-T) SDK and API Yes Smart Event Video encryption; Digest; WSSE; account lockout; security log IP/MAC filtering; generation and importing of X.509 IP/MAC filtering; generation and importing of X.509 Certification; syslog; HTTPS; 802.1x; trusted boot; truste execution; trusted upgrade Video Compression H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) H.267; PPOE; Boujour	Iris Control		Fixed			Audio Compression	G.711a; G.711Mu; G.726; PCM	
Lens Detect Observe Recognize Identify 3.6 mm	Close Focus Dist	ance	, ,			Alarm		
3.6 mm		Lens			Recognize	Identify	Alarm Event	disconnection; IP conflict; illegal access; motion
82.8 m (271.65 ft) (108.60 ft) (54.46 ft) (27.23 ft) 8 mm		3.6 mm						abnormality; voltage detection; external alarm; security exception
8 mm 121.3 m (397.97 ft) 121.1 m (397.97 ft) SDK and API Yes Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security log 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; H.264B; MJPEG (Only supported by the sub stream) Network Port RJ-45 (10/100 Base-T) Yes Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security log IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade IPv4; IPv6; HTTP; TCP; UDP; ARP; RTSP; RTCP; RTM SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour	DORI Distance	6 mm						
Smart Event IVS Tripwire; intrusion Cyber Security Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security log 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; H.264B; MJPEG (Only supported by the sub stream) Network Protocol Network Protocol Network Protocol Multicast; ICMP; IGMP; NFS; PPPoE; Boujour		8 mm				12.1 m		RJ-45 (10/100 Base-T)
Cyber Security Cyber Security P/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade Video Video Compression H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) Network Protocol Network Protocol Network Protocol SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour			(397.97 ft)	(159.12 ft)	(79.72 ft)	(39.70 ft)	SDK and API	
Video Video Compression H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) Network Protocol Network Protocol Network Protocol Multicast; ICMP; IGMP; NFS; PPPoE; Boujour			Tripwire; intrusion			Cyber Security	encryption; Digest; WSSE; account lockout; security logs;	
Video Compression H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) Network Protocol SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour	Video						execution; trusted upgrade	
Smart Codec Smart H.265+; Smart H.264+ Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone	Video Compression						Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;
	Smart Codec		Smart H.265+; Smart H.264+			Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone	

Lite Series | DH-IPC-HFW2231T-AS-S2

User/Host	20 (Total bandwidth: 48 M)		
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS		
Browser	IE Chrome Firefox		
Management Software	Smart PSS; DSS; DMSS		
Mobile Client	IOS; Android		

Certification

Certifications	CE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
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Power

Power Supply	12 V DC/PoE (802.3af)		
Power Consumption	Basic: 1.8 W (12 V DC); 2.4 W (PoE) Max. (ICR + H.265 + max. resolution + main stream + IR intensity + WDR + IVS): 5.5 W (12 V DC); 6.1 W (PoE)		

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤ 95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Protection	IP67; IK10 (optional)

Structure

Casing	Metal		
Product Dimensions	244.1 mm × Φ90.4 mm (9.6" × Φ3.6")		
Net Weight	0.91 kg (2.0 lb)		
Gross Weight	1.16 kg (2.6 lb)		

Ordering Information				
Туре	Model	Description		
2MP Camera	DH-IPC- HFW2231T-AS-S2	2MP Lite IR Fixed-focal Bullet Network Camera		
	PFA130-E	Junction Box		
Accessories	PFA152-E	Pole Mount Bracket		
(optional)	PFM321D	12V DC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		

Accessories

Optional:







12V DC 1A Power

Adapter

PFA130-E Junction Box

Pole Mount Bracket



Integrated Mount Tester

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])



