

DH-IPC-HDW2230T-AS-S2

2MP Lite IR Fixed-focal Eyeball 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.

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.

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.

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.

- 2MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2MP (1920 × 1080)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 30 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire.
- Abnormality detection: Motion detection, privacy masking, audio abnormity, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Max. 256 G micro SD card; built-in MIC.
- 12V DC/PoE power supply.
- IP67 protection.



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.

Lite Series | DH-IPC-HDW2230T-AS-S2

Technical Specification

Video Compression

Video Frame Rate

Stream Capability

Smart Codec

Camera					
Image Sensor		1/2.8" CMOS			
Max. Resolution		1920 (H) × 1080 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.005 Lux@F1.6 (Color, 30 IRE) 0.0005 Lux@F1.6 (B/W, 30 IRE) 0 Lux (Illuminator on)			
S/N Ratio		> 56 dB			
Illumination Distance		30 m (98.43 ft) (IR)			
Illuminator On/Off Control		Auto; manual			
Illuminator Number		2 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Aperture		2.8 mm: F1.6 3.6 mm: F1.6			
Field of View		2.8 mm: Horizontal: 107°; Vertical: 56°; Diagonal: 127° 3.6 mm: Horizontal: 88°; Vertical: 44°; Diagonal: 105°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.3 m (4.27 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	43.9 m (144.03 ft)	17.5 m (57.41 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)
	3.6 mm	58.9 m (193.24 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)	5.9 m (19.36 ft)
Smart Event					
IVS		Tripwire; intrusion			
Video					

H.265; H.264; H.264B; MJPEG (Only supported by the

*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected

sub stream)

Main stream:

Sub stream: 704×576@1–25 fps

2 streams

Smart H.265+; Smart H.264+

1920 × 1080@1-25/30 fps

to the total encoding capacity.

704 × 480@1-30 fps

Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps	
Day/Night	Auto (ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	DWDR	
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto; manual	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest (RoI)	Yes (4 areas)	
Smart Illumination	Yes	
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Built-in MIC	Yes	
Audio Compression	G.711a; G.711Mu; G.726; PCM	
Alarm		
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; security exception	
Network		
Network Port	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	
Network 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; Boujour	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone	
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	

1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280

× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF

(352 × 288/352 × 240)

H.264: 32 kbps-6144 kbps

CBR/VBR

Resolution

Bit Rate Control

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Certification					
Certifications	CE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B				
Power					
Power Supply	12 V DC/PoE (802.3af)				
Power Consumption	Basic: 1.8 W (12 V DC); 2.6 W (PoE) Max. (ICR + H.265 + max. resolution + main stream + IR intensity + DWDR + IVS): 5.5 W (12 V DC); 6.4 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				
Structure					
Casing	Inner core: Metal Cover: Plastic				
Product Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")				
Net Weight	0.39 kg (0.86 lb)				
Gross Weight	0.56 kg (1.23 lb)				

Accessories

Optional:



PFA13G

Junction Box



PFB205W

Wall Mount Bracket



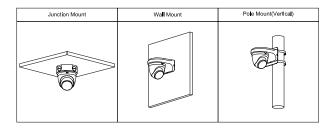
PFA152-E Pole Mount Bracket



Adapter

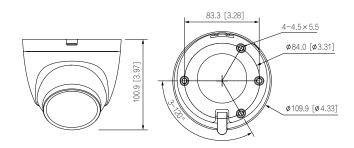
PFM900-E





Dimensions (mm[inch])

Ordering Information					
Туре	Model	Description			
2MP Camera	DH-IPC- HDW2230T-AS-S2	2MP Lite IR Fixed-focal Eyeball Network Camera			
Accessories (optional)	PFA13G	Junction Box			
	PFB205W	Wall Mount Bracket			
	PFA152-E	Pole Mount Bracket			
	PFM321D	12V DC 1A Power Adapter			
	PFM900-E	Integrated Mount Tester			



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