

DH-IPC-HDW2230T-AS-S2

2MP IR Eyeball Network Camera



- \cdot 2MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs 2MP (1920 × 1080)@25/30 fps
- H.265 codec, high compression ration, ultra-low bit rate
- Built-in IR LED, max IR distance: 30 m
- ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, DWDR, 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 disconnected, IP conflict, illegal access, voltage detection
- Supports max. 256 GB Micro SD card, built-in Mic
- 12V DC/POE power support
- IP67 protection



System Overview

With upgraded H.265 encoding technology, Dahua Lite series camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function, complying to the standards of IP67.

Functions

Smart (H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

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-HDW2230T-AS-S2

Technical Specification

Smart event

Video

General IVS Analytics

Video Compression

Video Frame Rate

Stream Capability

Smart Codec

Camera					
Image Sensor		1/2.7"2Megapixel progressive CMOS			
Effective Pixels		1920 (H) × 1080 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.005 Lux @ F1.6			
IR Distance		30 m (98.43 ft)			
IR On/Off Control		Auto/Manual			
IR LEDs Number		2			
Pan/Tilt/Rotation Range		Horizonal: 0°–360° Vertical: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Fix focal			
Mount Type		M12			
Focal Length		2.8 mm 3.6 mm			
Max. Aperture		F1.6 F1.6			
Field of View		2.8 mm : Horizonal: 110.0° Vertical: 59.0° Diagonal: 132.0° 3.6 mm : Horizonal: 91.0° Vertical: 48.0° Diagonal: 109.0°			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.1 m (3.61 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	37.3 m (122.38 ft)	14.9 m (48.88 ft)	7.5 m (24.61 ft)	3.7 m (12.14 ft)
	3.6 mm	53.3 m (174.87 ft)	21.3 m (96.88 ft)	10.7 m (35.10 ft)	5.3 m (17.39 ft)

Intrusion; tripwire

H.264: Yes

H.265: Yes Main stream:

Sub stream: 704 × 576 (1 fps-25fps)

2 streams

H.265; H.264; H.264B; MJPEG

1920 × 1080 (1 fps-25/30 fps)

704 × 480 (1 fps-30 fps)

Resolution	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–6144 Kbps H.265: 12 Kbps–6144 Kbps		
Day/Night	ICR switch		
BLC	Yes		
WDR	DWDR		
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(RoI)	Yes (4 areas)		
Smart IR	Yes		
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution.)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Built-in MIC	Yes		
Audio Compression	G.711A; G.711Mu; G.726; AAC		
Network			
Network Network	RJ-45 (10/100 Base-T)		
	RJ-45 (10/100 Base-T) HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP		
Network	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP;		
Network Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP		
Network Protocol Interoperability	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP ONVIF (Profile S/Profile G); CGI; Milestone; Genetec		
Network Protocol Interoperability User/Host	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP ONVIF (Profile S/Profile G); CGI; Milestone; Genetec 20 Dahua Cloud; FTP; Micro SD Card (support max. 256		
Network Protocol Interoperability User/Host Edge Storage	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP ONVIF (Profile S/Profile G); CGI; Milestone; Genetec 20 Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS IE Chrome		
Network Protocol Interoperability User/Host Edge Storage Browser	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPV4/v6; QoS; UPNP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP ONVIF (Profile S/Profile G); CGI; Milestone; Genetec 20 Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS IE Chrome Firefox		
Network Protocol Interoperability User/Host Edge Storage Browser Management Software	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPNP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP ONVIF (Profile S/Profile G); CGI; Milestone; Genetec 20 Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS IE Chrome Firefox Smart PSS; DSS; DMSS		
Network Protocol Interoperability User/Host Edge Storage Browser Management Software Mobile Phone	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPNP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP ONVIF (Profile S/Profile G); CGI; Milestone; Genetec 20 Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS IE Chrome Firefox Smart PSS; DSS; DMSS		
Network Protocol Interoperability User/Host Edge Storage Browser Management Software Mobile Phone Certification	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPNP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP ONVIF (Profile S/Profile G); CGI; Milestone; Genetec 20 Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS IE Chrome Firefox Smart PSS; DSS; DMSS IOS; Android CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B		
Network Protocol Interoperability User/Host Edge Storage Browser Management Software Mobile Phone Certifications	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPNP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP ONVIF (Profile S/Profile G); CGI; Milestone; Genetec 20 Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS IE Chrome Firefox Smart PSS; DSS; DMSS IOS; Android CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B		
Network Protocol Interoperability User/Host Edge Storage Browser Management Software Mobile Phone Certifications Certifications Power	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPNP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP ONVIF (Profile S/Profile G); CGI; Milestone; Genetec 20 Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS IE Chrome Firefox Smart PSS; DSS; DMSS IOS; Android 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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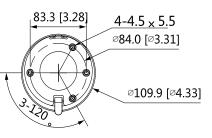
Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/ less than \leq 95%	
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)	

Junction Mount	Wall Mount	Pole Mount	
PFA130-E	PFB203W	PFA152-E+PFB203W	

Dimensions (mm[inch])





Ordering Information

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Туре	Part Number	Description	
2MP Camera	DH-IPC- HDW2230TP-AS-S2	2MP IR Eyeball Network Camera, PAL	
	DH-IPC- HDW2230TN- AS-S2	2MP IR 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	
	РҒМ900-Е	Integrated mount tester	
	PFM114	TLC SD card	

Accessories

Optional:



PFA130-E Junction Box



PFM321D DC12V1A Power adapter



PFM114 TLC SD card



PFB203W Wall mount



LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFA152-E Pole Mount



PFM900-E Integrated mount tester

