

DH-IPC-HDW2230T-AS-S2

2MP Lite IR Fixed-focal Eyeball Network Camera



- 2MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs 2MP (1920 × 1080)@25/30 fps
- H.265 coding, high compression ration, 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 NR, 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 and built-in Mic
- 12V DC/PoE power supply
- IP67 protection











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 (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.

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 camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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 $1\,\mathrm{m}$ 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.





Technical Specification						Desclution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Camera				Resolution	×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Image Sensor		1/2.7" 2Meg	gapixel progres	ssive CMOS		Bit Rate Control	CBR/VBR
Max. Resolution		1920 (H) × 1	080 (V)			Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
ROM		128 MB				Day/Night	Auto(ICR)/Color/B/W
RAM		128 MB				BLC	Yes
Scanning Syst	em	Progressive				HLC	Yes
Electronic Shutter Speed		Auto/Manua	al 1/3 s–1/100	000 s		WDR	DWDR
Min. Illuminat	tion	0.005 Lux @	F1.6			White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
S/N Ratio		>56 dB				Gain Control	Auto/Manual
Illumination D	Distance	30 m (98.43	30 m (98.43 ft)			Noise Reduction	3D NR
Illuminator O	n/Off Control	Auto/Manua	al			Motion Detection	Disable/Enable (4 areas, rectangle)
Illuminator N	umber	2 (IR LED)				Region of Interest (RoI)	Yes (4 areas)
			Pan: 0°–360°			Smart Illumination	Yes
Pan/Tilt/Rota	tion Range		Tilt: 0°–78° Rotation: 0°–360°			Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Lens						Mirror	Yes
Lens Type		Fixed-focal				Privacy Masking	4 areas
Mount Type		M12	M12			Audio	
Focal Length		2.8 mm 3.6 mm				Built-in MIC	Yes
Max. Apertur	۵	F1.6				Audio Compression	G.711A; G.711Mu; G.726
Wax. Apertur	C	F1.6	F1.6			Alarm	
Field of View		2.8 mm: Horizontal 110.0° × Vertical 59.0° × Diagonal 132.0° 3.6 mm: Horizontal 91.0° × Vertical 48.0° × Diagonal 109.0°				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception
Iris Type		Fixed	Fixed			Network	
Close Focus D	istance		2.8 mm: 0.6 m(1.97 ft)			Network	RJ-45 (10/100 Base-T)
	Lens	Detect	m (3.61 ft) Observe	Recognize	Identify	SDK and API	Yes
DORI Distance	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)	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
	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)		trusted execution; trusted upgrade
Smart eve	nt					Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS;
IVS		Tripwire; int	rusion			FIOLOCOI	UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Video						Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)				User/Host	20
Smart Codec		Smart H.265+/ Smart H.264+				Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
Video Frame Rate		Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps)				Browser	IE Google Firefox
		704 × 480 (1 fps–30 fps)				Management Software	Smart PSS; DSS; DMSS
Stream Capability		2 streams				Mobile Phone	IOS; Android



Certification

Certifications	CE-LVD: EN62368-1 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

Power

Power Supply	12V DC/PoE		
Power Consumption	Basic power consumption: 1.7W (12V DC), 2.1W (POE) Max power consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 5.1W (12V DC), 5.9W (POE)		

Environment

Operating Conditions	-40 °C to $+60$ °C (-40 °F to $+140$ °F)/Less than 95% RH		
Storage Conditions	-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 (0.86 lb)
Gross Weight	0.52 kg (1.15 lb)

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HDW2230TP-AS-S2	2MP Lite IR Fixed-focal Eyeball Network Camera,PAL		
2MP Camera	DH-IPC- HDW2230TN- AS-S2	2MP Lite IR Fixed-focal Eyeball Network Camera,NTSC		
	PFA130-E	Junction Box		
	PFB203W	Wall Mount		
	PFA152-E	Pole Mount		
Accessories	PFM321D	DC12V1A Power Adapter		
	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

PFB203W Wall Mount

PFA152-E Pole Mount



PFM321D 12V DC 1A Power Adapter



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



PFM900-E Integrated Mount Tester



PFM114 TLC SD card

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

Dimensions (mm[inch])





