

DH-IPC-HDW2231T-AS-S2

2MP Lite IR Fixed-focal Eyeball Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080) @25/30 fps
- H.265 codec, high compression rate, 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, WDR, 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 disconnection, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card, 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.

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.

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 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.



Technical Specification						Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Camera						(352 × 288/352 × 240)	
Image Sensor		1/2.8"2Megapixel progressive CMOS				Bit Rate Control	CBR/VBR
Max. Resolution		1920 (H) ×1080 (V) 128 MB				Video Bit Rate	H.264: 32 Kbps-6144 Kbps H.265: 12 Kbps-6144 Kbps
ROM	ROM					Day/Night	Auto(ICR)/Color/B/W
RAM		128 MB				BLC	Yes
Scanning System		Progressive				HLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				WDR	120 dB
Min. Illumination		0.002 Lux @F1.6				White Balance	Auto/natural/street lamp/outdoor/manual/regional
S/N Ratio		> 56 dB					custom
Illumination Distance		30 m (98.4 ft)				Gain Control	Auto/Manual
Illuminator O	Illuminator On/Off Control		al			Noise Reduction	3D DNR
Illuminator Number		2 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
n (mil. fr		Pan: 0°-360)°			Region of Interest(RoI)	Yes (4 areas)
Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°				Smart Illumination	Yes
Lens						Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Lens Type		Fixed-focal				Mirror	Yes
Mount Type		M12				Privacy Masking	4 areas
Focal Length		2.8 mm 3.6 mm				Audio	
Max. Aperture		F1.6 F1.6				Built-in MIC	Yes
Field of View			106° × Vertical	56° × Diagona	l 126°	Audio Compression	G.711A; G.711Mu; G.726; AAC
Field of View	Field of View		37° × Vertical 4	6° × Diagonal	104°	Alarm	
Iris Type		Fixed					No SD card; SD card full; SD card error; network
Close Focus Distance		2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft)				Alarm Event	disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception
	Lens	Detect	Observe	Recognize	Identify	Network	
DORI	2.8 mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)	Network	RJ-45 (10/100 Base-T)
Distance	2.6	55.2 m	22.1 m	11.0 m	5.5 m	SDK and API	Yes
	3.6 mm	(181.1 ft)	(72.5 ft)	(36.1 ft)	(18.0 ft)		Video encryption; firmware encryption; configuration
Smart ever	nt					Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of
IVS		Tripwire; intrusion					X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Video					IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP;		
Video Compression		H.265; H.26 sub stream)		PEG (only supp	oorted by the	Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Smart Codec		Smart H.265+/ Smart H.264+				Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
Video Frame Rate		Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25fps) 704 × 480 (1 fps-30fps)				User/Host	20
						Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Stream Capability		2 streams				Browser	IE Chrome
Stream Capability							Firefox

Lite Series | DH-IPC-HDW2231T-AS-S2

Management Software	Smart PSS; DSS; DMSS
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 (802.3af)
Power Consumption	< 6.5W
Environment	
Operating Conditions	-40°C to $+60$ °C (-40 °F to $+140$ °F)/less than ≤ 95% RH
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection	IP67
Structure	
Casing	Metal + plastic
Dimensions	100.9 mm × Φ109.9 mm (4.0" × Φ4.3")
Net Weight	0.39 kg (0.9 lb)

Ordering Information							
Туре	Part Number	Description					
2MP Camera	DH-IPC- HDW2231TP-AS-S2	2MP Lite IR Fixed-focal Eyeball Network Camera,PAL					
Zivii cumeru	DH-IPC- HDW2231TN-AS-S2	2MP Lite IR Fixed-focal Eyeball Network Camera, NTSC					
	PFA130-E	Junction Box					
	PFB203W	Wall Mount					
	PFA152-E	Pole Mount					
Accessories (optional)	PFM321D	DC12V1A Power Adapter					
,	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender					
	PFM900-E	Integrated Mount Tester					
	PFM114	TLC SD Card					

0.56 kg (1.2 lb)

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



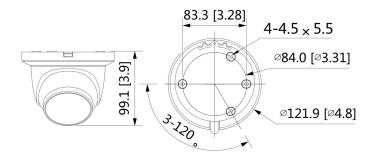
PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

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

Dimensions (mm[inch])



Gross Weight