

DH-IPC-HDW2231T-AS-S2

2MP WDR IR 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, 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 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 disconnection, 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.

Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back- light environment, bright region and dark region with strong light source, you can also get clear images.

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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification							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		1/2.8"2Meg	gapixel progres	sive CMOS			
Effective Pixels		1920 (H) ×1080 (V)				Bit Rate Control	CBR; VBR
ROM		128 MB				Video Bit Rate	H.264: 32 Kbps-6144 Kbps H.265: 12 Kbps-6144 Kbps
RAM		128 MB				Day/Night	ICR auto switch
Scanning System		Progressive				BLC	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 custom
IR Distance		30 m (98.4 ft)				Gain Control	Auto/Manual
IR On/Off Con	trol	Auto/Manual				Noise Reduction	3D DNR
IR LEDs Number		2				Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation Range		Horizontal: (Vertical: 0°–Rotation: 0°	-78°			Region of Interest(RoI)	Yes (4 areas)
Lens		Notation: 0	-300			Smart IR	Yes
Lens Type		Fixed focal				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution.)
Mount Type		M12				Mirror	Yes
Focal Length		2.8 mm 3.6 mm				Privacy Masking	4 areas
Max. Aperture		F1.6 F1.6				Audio	
		2.8 mm:	0.00			Built-in MIC	Yes
		Horizontal:1 Vertical: 56° Diagonal: 12	,			Audio Compression	G.711A; G.711Mu; G.726; AAC
Field of View		3.6 mm: Horizontal:8				Network	
		Vertical: 46° Diagonal: 10	•			Network	RJ-45 (10/100 Base-T)
Iris Type		Fixed apertu					HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP;
Close Focus Distance		2.8 mm: 0.6 3.6 mm: 1.2				Protocol	DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP
	Lens	Detect	Observe	Recognize	Identify	Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec
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)	User/Host	20
Distance	3.6 mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)	Edge Storage	Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS
Smart event						Browser	IE; Chrome; Firefox
General IVS Analytics		Tripwire; int	rusion			Management Software	Smart PSS; DSS; DMSS
Video						Mobile Phone	IOS; Android
Video Compression		H.265; H.264; H.264B; MJPEG				Certification	
Smart Codec		H.264: Yes H.265: Yes					CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive
Video Frame Rate		50 Hz Main stream (1920 × 1080@25 fps); sub stream(704 × 576@25 fps) 60 Hz Main stream (1920 × 1080@30 fps), sub stream(704 ×				Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
		Main stream (1920 × 1080@30 fps), sub stream(704 × 480@30 fps)				Power	
Stream Capability		2 streams				Power Supply	12V DC/PoE

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

Power Consumption	Basic power consumption: 1.9W (12V DC); 2.4W (PoE) Max. power consumption (H.265 + max. resolution + max. stream + WDR + IR full intensity + IVS enabled): 5.6W (12V DC); 6.5W (PoE)	
Environment		
Operating Conditions	-40°C to +60°C (-40°F to +140°F) /less than≤95%	
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ngress Protection	ID67

Structure

Casing	Metal + plastic
Dimensions	100.9 mm × Φ109.9 mm (4.0" × Φ4.3")
Net Weight	0.39 kg (0.9 lb)
Gross Weight	0.52 kg (1.1 lb)

Ordering Information				
Туре	Part Number	Description		
2MP Camera	DH-IPC- HDW2231TP-AS-S2	2MP WDR IR Eyeball Network Camera,PAL		
Zivii cumeru	DH-IPC- HDW2231TN-AS-S2	2MP WDR IR 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



DC12V1A Power adapter



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PFB203W

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



PFA152-E Pole Mount



PFM900-E Integrated mount tester

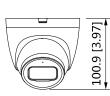


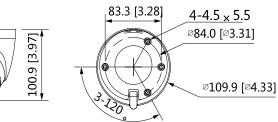
PFM114 TLC SD card

Dimensions (mm[inch])

Junction Mount

PFA130-E





Wall Mount

PFB203W

Pole Mount

PFA152-E+PFB203W