

DH-IPC-HDW2231T-ZS-S2

2MP WDR IR Eyeball Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- · Outputs 2MP (1920 × 1080)@25/30 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 40 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 disconnected, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card
- 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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification						Video Bi	t Rate	H.264: 32 Kbps-6144 Kbps H.265: 12 Kbps-6144 Kbps	
Camera						Day/Nig	ht	Auto(ICR)/Color/B/W	
Image Sensor		1/2.8" 2Megapixel progressive CMOS				BLC	•	Yes	
Effective Pixels		1920 (H) × 1080 (V)				HLC		Yes	
ROM		128 MB				WDR		120 dB	
RAM		128 MB					alanaa	Auto/natural/street lamp/outdoor/manual/regional	
Scanning System		Progressive				White B		custom	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				Gain Co		Auto/Manual	
Min. Illumination		0.002 Lux@F1.5					eduction	3D DNR	
IR Distance		40 m (131.23 ft)				Motion	Motion Detection OFF/ON (4 areas, rectangular)		
IR On/Off Control		Auto/Manual				Region	of Interest(RoI)	Yes (4 areas)	
IR LEDs Number		2				Smart IF	R	Yes	
Pan/Tilt/Rotation Range		Pan 0°–360° Tilt: 0°–78°				Image R	otation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.)	
rany michotatio	iii italige	Rotation: 0°–	-360°			Mirror		Yes	
Lens						Privacy	Masking	4 areas	
Lens Type		Motorized vari-focal				Netwo	Network		
Mount Type		ф14				Networl	<	RJ-45 (10/100 Base-T)	
Focal Length Max. Aperture		2.7 mm-13.5 mm F1.5				Protoco	Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x;	
Field of View		Pan: 109°–28 Tilt: 57°–16° Diagonal: 13				Interope	erability	Bonjour ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec	
Iris Type		Fixed aperture				User/Ho	st	20	
Close Focus Dist	Close Focus Distance		0.8 m-0.8 m (2.62 ft-2.62 ft)				30	Dahua Cloud; FTP; SFTP; Micro SD Card (support max.	
	Lens	Detect	Observe	Recognize	Identify	Edge Sto	orage	256 GB); NAS	
DORI Distance	W	44.1 m (144.69 ft) 151.7 m	17.6 m (57.74 ft) 60.6 m	8.8 m (28.87 ft) 30.3 m	4.4 m (14.44 ft) 15.1 m	Browser		IE Chrome Firefox	
	Т	(497.70 ft)	(198.82 ft)	(99.41 ft)	(49.65 ft)	Manage	ment Software	Smart PSS; DSS; DMSS	
Smart Event						Mobile I	Phone	IOS; Android	
General IVS Ana	lytics	Tripwire; intr	usion			Certifi	Certification		
Video									
Video Compress	sion	H.265; H.264	; Н.264В; МЈРЕ	G		Certifica	Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU	
Smart Codec	Smart Codec							FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
		Main stream 1920 × 1080	: (1 fps-25/30 fp	s)		Power			
Video Frame Rate		Sub stream: 704 × 576 (1		,		Power S	upply	12V DC/PoE (802.3af)	
		704 × 480 (1	fps-30 fps)			Power C	onsumption	< 6.4W	
Stream Capabilit	Stream Capability		2 streams				Environment		
Resolution		×720); D1 (70	× 1080); 1.3M 04 × 576/704 ×				ng Conditions	-30°C to +60°C (-22°F to +140°F)/less than ≤ 95% RH	
		(352 × 288/352 × 240)				Storage	Temperature	-40°C to +60°C (-40°F to +140°F)	
Bit Rate Control		CBR/VBR				Protecti	on	IP67	

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

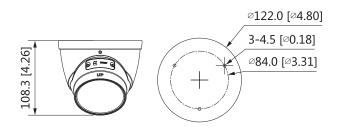
Structure

Casing	Metal
Dimensions	108.3 mm × Φ122 mm (4.26" × Φ1.80")
Net Weight	0.69 kg (1.52 lb)
Gross Weight	0.88 kg (1.94 lb)

Ordering Information						
Туре	Part Number	Description				
2MP Camera	DH-IPC-HDW2231TP-ZS-S2	2MP WDR IR Eyeball Network Camera,PAL				
	DH-IPC-HDW2231TN-ZS-S2	2MP WDR IR Eyeball Network Camera,NTSC				
	PFA130-E	Junction Box				
	PFB203W	Wall Mount				
	PFA106	Mount Adapter				
	PFB220C	Ceiling Mount				
Accessories (optional)	PFA152-E	Pole Mount				
(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				

Junction Mount	Wall Mount	Ceiling Mount	Pole Mount	
PFA130-E	PFB203W	PFA106+PFB220C	PFB203W+PFA152-E	

Dimensions (mm[inch])



Accessories

Optional:



PFA130-E Junction Box



PFB220C Ceiling Mount



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



PFB203W Wall Mount



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



PFA106 Mount Adapter



PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card

