

# DH-IPC-HDW2231TM-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, 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 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  $1\,\mathrm{m}$  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	Specificatio	n					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″2Me	gapixel progre	ssive CMOS			(352.1.200, 352.1.210)
Effective Pixels		1920 (H) ×1	080 (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	Auto(ICR)/Color/B/W
Scanning System		Progressive				BLC	Yes
Electronic Shutter Speed		Auto/Manu	al 1/3 s–1/100	0000 s		HLC	Yes
Min. Illumination		0.002 Lux @	₽F1.6			WDR	120 dB
IR Distance		30 m (98.4	ft)			White Balance	Auto/natural/street lamp/outdoor/manual/regional
IR On/Off Co	ntrol	Auto/Manu	al				custom
IR LEDs Numb	ber	2				Gain Control	Auto/Manual
Pan/Tilt/Rota	ation Pango	Pan: 0°-360 Tilt: 0°-78°	)°			Noise Reduction	3D DNR
Pan/ Int/Nota	ation range	Rotation: 0	°–360°			Motion Detection	OFF/ON (4 areas, rectangular)
Lens						Region of Interest(RoI)	Yes (4 areas)
Lens Type		Fixed-focal				Smart IR	Yes
Mount Type		M12				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower.)
Focal Length		3.6 mm				Mirror	Yes
Max. Apertur	Max. Aperture					Privacy Masking	4 areas
						Audio	
Field of View	,	Tilt: 56° Diagonal: 1 3.6 mm:	26°			Built-in MIC	Yes
	rield of view					Audio Compression	G.711A; G.711Mu; G.726; AAC
			Diagonal: 104°			Network	
Iris Type		Fixed apert				Network	RJ-45 (10/100 Base-T)
Close Focus [	Distance Lens	3.6 mm: 1.2 Detect		Recognize	Identify	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; Bonjour
DORI Distance	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)	Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
	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)	User/Host	20
Smart event							Dahua Cloud; FTP; SFTP; Micro SD Card (support max.
General IVS Analytics Tripwire; intrusion				Edge Storage	256 GB); NAS		
Video						Browser	IE Chrome Firefox
Video Compression		H.265; H.26	54; H.264B; MJ	PEG		Management Software	Smart PSS; DSS; DMSS
Smart Codec		Yes				Mobile Phone	IOS; Android
Video Frame Rate		Sub stream	0 (1 fps-25/30 :	fps)		Certification	
		704 × 480 (	1 fps-25 fps) 1 fps-30 fps)			Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Stream Capability		2 streams					. 33. 17 GITT GGT GT LIS, Subpart B

## Lite Series | DH-IPC-HDW2231TM-AS-S2

Power	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 6.5W
Environment	

LIMITOTITIETTE	
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)

IP67

### Structure

Ingress Protection

Casing	Metal
Dimensions	99.1 mm × Φ121.9 mm (3.9" × Φ4.8")
Net Weight	0.48 kg (1.1 lb)
Gross Weight	0.65 kg (1.4 lb)

Ordering Information					
Туре	Part Number	Description			
2MP	DH-IPC- HDW2231TMP-AS-S2	2MP WDR IR Eyeball Network Camera, PAL			
Camera	DH-IPC- HDW2231TMN-AS-S2	2MP WDR IR 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			

## **Accessories**

## **Optional:**



PFA130-E Junction Box



PFM321D DC12V1A Power Adapter



PFB203W Wall Mount



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



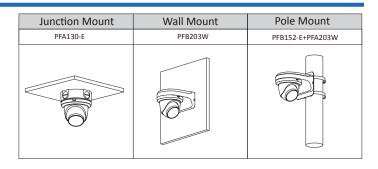
PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card



## Dimensions (mm[inch])

