

# DH-IPC-HDW2431T-ZS-DG-S2

4MP Lite IR Vari-focal Eyeball Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, max. supports 4MP (2688 × 1520)@20 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 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
- 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 Sp	ecificatio	on					Bit Rate Control	CBR/VBR	
Camera				Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps				
Image Sensor		1/3" 4Megapixel progressive CMOS					Day/Night	Auto(ICR)/Color/B/W	
Max. Resolution		2688 (H) × 1520 (V)					BLC	Yes	
ROM		128 MB					HLC	Yes	
RAM		128 MB					WDR	120 dB	
Scanning System	า	Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s						custom	
Min. Illumination	n	0.008 Lux@F1.5					Gain Control	Auto/Manual	
S/N Ratio		>56 dB					Noise Reduction	3D NR	
Illumination Dist	tance	40 m (131.23 ft)					Motion Detection	OFF/ON (4 areas, rectangular)	
Illuminator On/0	Off Control	Auto/Manual					Region of Interest(RoI)	Yes (4 areas)	
Illuminator Num	her	2 (IR LED)					Smart Illumination	Yes	
Pan/Tilt/Rotation Range		Pan 0°–360° Tilt: 0°–78°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower.)	
		Rotation: 0°–360°					Mirror	Yes	
Lens Type		Materized veri feed					Privacy Masking	4 areas	
Mount Type		Motorized vari-focal					Alarm		
Focal Length		φ14 2.7 mm–13.5 mm					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; safety exception;	
Max. Aperture		F1.5							
Field of View		Horizontal: 104°–27° Vertical: 55°–15°					Network	k	
Iris Type		Diagonal: 124°–31° Fixed					Network	RJ-45 (10/100 Base-T)	
			(2.62 ft 2.62 ft	-1			SDK and API	Yes	
Close Focus Dist	Lens	Detect	(2.62 ft–2.62 ft Observe	Recognize	Identify		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; trusted	
DORI Distance	W	64 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (21.00 ft)			execution; trusted upgrade	
	Т	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour	
Smart Event		Tripwire; intrusion					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
Video							User/Host	20	
	i a a	H.265; H.264; H.264B; MJPEG (only supported by the					Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP	
Video Compression		sub stream)					Storage	IE	
Smart Codec		Smart H.265+/ Smart H.264+  Main stream:					Browser	Chrome Firefox	
		2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps)					Management Software	Smart PSS; DSS; DMSS	
Video Frame Rate		2300 × 1440 (1 rps-23/30 rps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Mobile Phone	IOS; Android	
6. 6 1							Certification		
Stream Capability Resolution		2 streams  2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					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	

## Lite Series | DH-IPC-HDW2431T-ZS-DG-S2

### Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 6.4W

### Environment

Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than ≤ 95% RH
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection	IP67

### 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** Type Part Number Description 4MP Lite IR Vari-focal Eyeball DH-IPC-HDW2431TP-ZS-S2 Network Camera,PAL 4MP Camera 4MP Lite IR Vari-focal Eyeball DH-IPC-HDW2431TN-ZS-S2 Network Camera, NTSC PFA130-E Junction Box PFB203W Wall Mount PFA106 Mount Adapter PFB220C Ceiling Mount Accessories PFA152-E Pole Mount (optional) PFM321D DC12V1A Power Adapter Single-port Long Reach Ethernet LR1002-1ET/1EC over Coax Extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

### Accessories

### Optional:







PFA137-DG Junction Box

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

### Dimensions (mm[inch])





