



DH-IPC-HDW2431T-AS-S2

4MP WDR IR Eyeball Network Camera



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.

- 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: 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 disconnected, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card, built-in Mic
- 12V DC/PoE power support
- IP67 protection













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 S	Specification						2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 ×
Technical Specification Camera						Resolution	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)
Image Sensor		1/3" 4Megapixel progressive CMOS					
Effective Pixels		2688 (H) × 1520 (V)				Bit Rate Control	CBR/VBR
ROM						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/Manual 1/3 s–1/100000 s				HLC	Yes
Min. Illuminati	on	0.008 Lux @ F1.6				WDR	120 dB
IR Distance		30 m (98.43 ft)				White Balance	Auto/natural/street lamp/outdoor/manual/regional
IR On/Off Control		Auto/Manual					custom
IR LEDs Number		2				Gain Control	Auto/Manual
Pan/Tilt/Rotat	ion Range	Pan: 0°–360° Tilt: 0°–78°	0			Noise Reduction	3D DNR
. a., m., notation name		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 2.8 mm				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.)
Focal Length		3.6 mm				Mirror	Yes
Max. Aperture		F1.6 F1.6				Privacy Masking	4 areas
		2.8 mm: Pan: 102.0° Tilt: 55.0°				Audio	
Field of View	Field of View		1.0°			Built-in MIC	Yes
	. I.C.W OF VICE					Audio Compression	G.711A; G.711Mu; G.726; AAC
		Tilt: 45.0° Diagonal: 100.0°				Network	
Iris Type		Fixed aperture				Network	RJ-45 (10/100 Base-T)
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (3.61 ft)				Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS;
DORI	Lens	Detect 56 m	Observe 22.4 m	Recognize 11.2 m	Identify 5.6 m	, , , , , , , , , , , , , , , , , , , ,	QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour
Distance	2.8 mm 3.6 mm	(183.73 ft) 80 m	(73.49 ft) 32.0 m	(36.75 ft) 16.0 m	(18.37 ft) 8.0 m	Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
Smart event		(262.47 ft) (104.99 ft) (52.49 ft) (26.25 ft)			(26.25 ft)	User/Host	20
General IVS Ar		Tripwire; intrusion				Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Video							IE
Video Compression		H.265; H.264	4; H.264B; MJP	EG		Browser	Chrome Firefox
Smart Codec		Yes				Management Software	Smart PSS; DSS; DMSS
Video Frame Rate		Main stream:				Mobile Phone	IOS; Android
		2560 × 1440	(1 fps-20 fps) (1 fps-25/30 f	ps)		Certification	
		Sub stream: 704 × 576 (1 704 × 480 (1	fps-25 fps)			Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU ECC: 47 CER ECC Part 15, Subpart R
Stream Capability		2 streams					FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07



Power Supply 12V DC/PoE (802.3af) Power Consumption < 6.6W Environment

Environment	
Operating Conditions	-40°C to $+60$ °C (-40 °F to $+140$ °F)/less than ≤ 95% RH
Storage Temperature	-40°C to +60°C (-40°F to +140°F)

IP67

Protection Structure

Casing	Metal + Plastic
Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")
Net Weight	0.39 kg (0.9 lb)
Gross Weight	0.56 kg (1.2 lb)

Ordering Information						
Туре	Part Number	Description				
4MP Camera	DH-IPC- HDW2431TP-AS-S2	4MP WDR IR Eyeball Network Camera, PAL				
iivii cainera	DH-IPC- HDW2431TN-AS-S2	4MP 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

PFM114



PFB203W Wall Mount



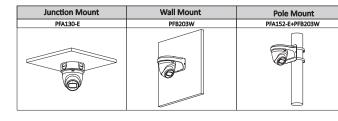
LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

