

DH-IPC-HDW1431T1-A

4MP Entry IR Fixed-focal Eyeball Network Camera



Series Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry series network camera is applicable to small and medium-sized scenes, such as homes/residences, small-sized retail stores, and other small and medium-sized enterprises.

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.

Smart Illumination

Dahua Smart Illumination technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts Illuminations intensity automatically to display the details of the moving target.

Human Detection

Dahua intelligent algorithms extract moving human targets from videos and filters out alarms that are triggered by non-human targets to increase the accuracy and effectiveness of alarms.

*The parameters and datasheets below can only be applied to 1431-S6 series.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 4 MP (2560 ×1440)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 30 m.
- WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Abnormality detection: Motion detection, video tampering, audio detection, network disconnection, IP conflict, illegal access.
- · Built in Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- · Supports human detection.













Cyber Security

Dahua network cameras employ a series of security technologies, including security authentcaton and authorizaton, access control protocols, trusted protecton, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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 work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Smart Codec

Smart H.265+; Smart H.264+

Technical Specification						Video Frame Rate	Main stream: 2560 × 1440@(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Camera								
Image Sensor		1/2.9" CMOS						
Max. Resolution		2560 (H) × 1440 (V)					Stream Capability	2 streams
ROM		16 MB					Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352
RAM		64 MB						
Scanning System		Progressive					Bit Rate Control	× 240) CBR/VBR
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Bit Rate	H.264: 32 kbps–4096 kbps;
Min. Illumination		0.03 lux@F2.0 (Color, 30 IRE); 0.003 lux@F2.0 (B/W, 30 IRE); 0 lux (Illuminator on)					Day/Night	H.265: 12 kbps-4096 kbps Auto(ICR)/Color/B/W
S/N Ratio		>56 dB					BLC	Yes
Illumination	Distance	Up to 30 m (98.43 ft) (IR)					HLC	Yes
Illuminator (On/Off Control						WDR	120 dB
Illuminator N	Number	1 (IR LED)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
		Pan: 0°–360°					Gain Control	Auto/Manual
Angle Adjust	tment	Tilt: 0°–78° Rotation: 0°–360°					Noise Reduction	3D NR
Lens	Lens						Motion Detection	OFF/ON (4 areas, rectangular)
Lens Type		Fixed-focal					Region of Interest (RoI)	Yes (4 areas)
Lens Mount			M12				Smart Illumination	Yes
Focal Length	n	2.8 mm;3.6 mm					Image Rotation	0°/180°
Max. Apertu	ıre	F2.0					Mirror	Yes
Field of View	v	2.8 mm: H: 92°; V: 50°; D: 107° 3.6 mm: H: 78°; V: 43°; D: 92°					Privacy Masking	4 areas
Iris Control		Fixed					Audio	
Close Focus	Distance	2.8 mm: 1.0 m (3.28 ft)					Built-in MIC	Yes, built-in Mic
Close Focus		3.6 mm: 1.3 m (4.27 ft)			Audio Compression	G.711a; G.711Mu; PCM; G.726		
	Lens	Detect	Observe	Recognize	Identify		Alarm	
DORI	2.8 mm 3.6 mm	66.0 m (216.54 ft) 76.0 m	26.4 m (86.61 ft) 30.4 m	13.2 m (43.31 ft) 15.2 m	6.6 m (21.65 ft) 7.6 m		Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)
Distance	*DORI (Detec	(249.34 ft) t, Observe, Rec	(99.74 ft) ognize, Identify	(49.87 ft) y) is a standard	(24.93 ft) system		Network	
	distinguish pe	6-4) for defining the ability of a person viewing the video to h persons or objects within a covered area. The numbers in					Network Port	RJ-45 (10/100 Base-T)
function dista		not reflect intelligent function distances. For intelligent inces, refer to installation and commissioning manual/					SDK and API	Yes
project design tool. Intelligence				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP;			
Human Detection		Support the classification and accurate detection of human					Interoperability	IGMP; P2P ONVIF (Profile S & Profile T); CGI
Connect Constitution		Work together with Smart NVR to perform refine					User/Host	6 (Total bandwidth: 24 M)
Smart Search		intelligent search, event extraction and merging to event videos					Storage	FTP
Video							Browser	IE; Chrome; Firefox
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub-stream)					Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
		by the sub stream)						, , , , , , , , , , , , , , , , , , , ,

Mobile Client

iOS;Android

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Cyber Security	Configuration encryption;Trusted execution;Digest,Security logs;HTTPS;Trusted upgrade;WSSE;Trusted boot;Account lockout;Generation and importing of X.509 certification;Video encryption	
Certification		
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU	
Power		
Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 1.5 W (12 VDC), 1.9 W (PoE); Max. (H.265 + intelligence on + WDR+ IR intensity): 3.5 W (12 VDC), 4.3 W (PoE)	
Environment		

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%(RH), non-condensing
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95%(RH), non-condensing
Protection	IP67

Structure

Casing Material	Inner core: Metal + Plastic; Cover: Plastic; Decoration ring: Plastic; Pedestal: Plastic
Product Dimensions	85.5 mm × Φ109 mm (3.37" × Φ4.29")
Net Weight	0.25 kg (0.55 lb)
Gross Weight	0.38 kg (0.84 lb)

Ordering Information				
Туре	Model	Description		
4MP Camera	DH-IPC-HDW1431T1-A	4MP Entry IR Fixed-focal Eyeball Network Camera		
	PFA136	Junction Box		
	PFB203W	Wall Mount Bracket		
	PFA152-E	Pole Mount Bracket		
Accessories (Optional)	PFA106	Mount Adapter		
	PFB220C	Ceiling Mount Bracket		
	PFM321D	12 VDC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		

Accessories

Optional:







PFA136 Junction Box

PFB203W Wall Mount Bracket

Ceiling Mount Bracket

PFA152-E Pole Mount Bracket



Mount Adapter





PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester

Junction Mount	Ceiling Mount	Wall Mount
Pole Mount(Vertical)		

Dimensions (mm[inch])

