

DH-IPC-HDW1431T1

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, network disconnection, IP conflict, illegal access.
- 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.

Technical Specification						Smart Codec	Smart H.265+; Smart H.264+	
Camera				Video Frame Rate	Main stream: 2560 × 1440@(1–25/30 fps)			
Image Sensor		1/2.9" CMOS					sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the max. frame rates of each	
Max. Resolution		2560 (H) × 1440 (V)						stream; for multiple streams, the values will be subjected to the total encoding capacity.
ROM		16 MB					Stream Capability	2 streams
RAM		64 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 × 240)
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumination		0.03 lux@F2.0 (Color, 30 IRE); 0.003 lux@F2.0 (B/W, 30 IRE); 0 lux (Illuminator on)					Video Bit Rate	H.264: 32 kbps-4096 kbps; H.265: 12 kbps-4096 kbps
S/N Ratio		>56 dB					Day/Night	Auto(ICR)/Color/B/W
Illumination	Distance	Up to 30 m (98.43 ft) (IR)					BLC	Yes
Illuminator (On/Off Control	Auto;Manual					HLC	Yes
Illuminator N	Number	1 (IR LED)					WDR	120 dB
A I - A - I A		Pan: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Angle Adjust	ment	Tilt: 0°–78° Rotation: 0°–360°					Gain Control	Auto/Manual
Lens							Noise Reduction	3D NR
Lens Type		Fixed-focal					Motion Detection	OFF/ON (4 areas, rectangular)
Lens Mount		M12					Region of Interest (RoI)	Yes (4 areas)
Focal Length	1	2.8 mm;3.6 mm					Smart Illumination	Yes
Max. Apertu	ire	F2.0					Image Rotation	0°/180°
Field of View	1	2.8 mm: H: 92°; V: 50°; D: 107° 3.6 mm: H: 78°; V: 43°; D: 92°					Mirror	Yes
Iris Control		Fixed					Privacy Masking	4 areas
		2.8 mm: 1.0 m (3.28 ft)				Alarm		
Close Focus	Lens	3.6 mm: 1.3 m (4.27 ft) Detect Observe Recognize Identify					Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; security exception; SMD
		66.0 m	26.4 m	13.2 m	6.6 m			(human)
	2.8 mm	(216.54 ft)	(86.61 ft)	(43.31 ft)	(21.65 ft)		Network	
DORI	3.6 mm	76.0 m (249.34 ft)	30.4 m (99.74 ft)	15.2 m (49.87 ft)	7.6 m (24.93 ft)		Network Port	RJ-45 (10/100 Base-T)
Distance		*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/					SDK and API	Yes
	distinguish pe this table do r						Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
Intelligence				Interoperability	ONVIF (Profile S & Profile T); CGI			
Human Detection		Support the classification and accurate detection of					User/Host	6 (Total bandwidth: 24 M)
Human Detection		human					Storage	FTP
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Browser	IE; Chrome; Firefox
\r. 1		VIUCUS					Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
Video		H265 H264 H264H H2642 11256 /2 1					Mobile Client	iOS;Android
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)						

Entry Series | DH-IPC-HDW1431T1

Entry Series Birili e rib Wil 19111				
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				

-40 °C to +60 °C (-40 °F to +140 °F)

-40 °C to +60 °C (-40 °F to +140 °F)

≤95%(RH), non-condensing

≤95%(RH), non-condensing

IP67

Protection Structure

Operating Temperature

Operating Humidity

Storage Temperature

Storage Humidity

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	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

PFA152-E Pole Mount Bracket







PFA106 Mount Adapter

PFB220C Ceiling Mount Bracket

PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester

Junction Mount	Ceiling Mount	Wall Mount
Pole Mount(Vertical)		

Dimensions (mm[inch])

