

DH-IPC-HDW1439V-IL-K

4MP Entry Smart Dual Light 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 Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

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.

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.

- 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 warm light, the max. IR illumination distance is 30 m and warm light 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 and illegal access.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- · Supports human detection.













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.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, 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							Main stream: 2560 × 1440@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30	
Camera							Video Frame Rate	fps) *The values above are the max. frame rates of each
Image Sensor		1/2.9" CMOS						stream; for multiple streams, the values will be subjected to the total encoding capacity.
Max. Resolution		2560 (H) × 1440 (V)					Stream Capability	2 streams
ROM		128 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)
RAM		128 MB						
Scanning Sys	tem	Progressive					Bit Rate Control	CBR/VBR
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				Video Bit Rate	H.264: 32 kbps-4096 kbps H.265: 12 kbps-4096 kbps	
Min. Illumination		0.006 lux@F1.6 (Color,30 IRE) 0.0006 lux@F1.6 (B/W,30 IRE)					Day/Night	Auto(ICR)/Color/B/W
S/N Ratio		0 lux (Illuminator on)					BLC	Yes
S/N Ratio		>56 dB					HLC	Yes
Illumination	Distance	Up to 30 m (98.43 ft) (IR LED) Up to 30 m (98.43 ft) (Warm light)				WDR	120 dB	
Illuminator C	On/Off Control	Auto;Manual				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Illuminator N	lumber	1 (IR LED); 1 (Warm light)					Gain Control	Auto;Manual
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Noise Reduction	3D NR
Lens		Notation. 0 -500				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	ı	2.8 mm;3.6 mm					Image Rotation	0°/180°
Max. Apertu	re	F1.6					Mirror	Yes
Field of View		2.8 mm: H: 94°; V: 52°; D: 111° 3.6 mm: H: 78°; V: 41°; D: 94°				Privacy Masking	4 areas	
Iris Control		Fixed						
Close Focus	Distance	2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (5.58 ft)						
	Lens	Detect	Observe	Recognize	Identify		Alarm	
	2.8 mm	64.0 m	25.6 m	12.8 m	6.4 m			Network discourant on ID (C) 1911
DORI	3.6 mm	(209.97 ft) 85.4 m	(83.98 ft) 34.2 m	(41.99 ft) 17.1 m	(21.00 ft) 8.5 m		Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; SMD (human); security exception
Distance	*DORI (Detec	(280.18 ft) (112.20 ft) (56.10 ft) (27.89 ft) ct, Observe, Recognize, Identify) is a standard 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 do not reflect intelligent function distances. For intelligent distances, refer to installation and commissioning manual/					Network Port	RJ-45 (10/100 Base-T)
	function dista						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					Laborator I Wi	IGMP; P2P
		Work together with Smart NVR to perform refine					Interoperability	ONVIF (Profile S; Profile T); CGI
Smart Search		intelligent search, event extraction and merging to event videos					User/Host	6 (Total bandwidth: 24 M)
Video							Storage	FTP
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				Browser Management Software	IE; Chrome; Firefox	
Smart Codec		Smart H.265+; Smart H.264+				Management Software Mobile Client	Smart PSS Lite; DSS; DMSS iOS;Android	
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Entry Series | DH-IPC-HDW1439V-IL-K

Certification

	CE-LVD: EN62368-1
Certifications	CE-EMC: Electromagnetic Compatibility Directive
	2014/30/EU

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2 W (12 VDC); 2.9 W (PoE) Max. (H.265 + intelligence on+ WDR + illuminator intensity): 4.6 W (12 VDC); 5.7 W (PoE)

Environment

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

Structure

Casing Material	Inner core: Metal+plastic Cover: Plastic	
Product Dimensions	100.9 mm × Ф109.9 mm (3.97" × Ф4.33")	
Net Weight	0.33 kg (0.73 lb)	
Gross Weight	0.45 kg (0.99 lb)	

Ordering Information				
Туре	Model	Description		
4MP Camera	DH-IPC-HDW1439V-IL	4MP Entry Smart Dual Light Fixed- focal Eyeball Network Camera		
	PFA13G	Junction Box		
	PFB205W-E	Wall Mount Bracket		
	PFA152-E	Pole Mount Bracket		
Accessories (Optional)	PFA109	Mount Adapter		
	PFB220C	Ceiling Mount Bracket		
	PFM321D	12 VDC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		

Accessories

Optional:







PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester

Junction Mount	Ceiling Mount	Wall Mount
Pole Mount(Vertical)		

Dimensions (mm[inch])

