

DH-IPC-B1E49-A-IL

4MP ECO Dual Light Fixed-focal Bullet Network Camera



Series Overview

The Dahua ECO Series camera is designed with simplicity for practicality. Plug and play, it immediately outputs images when connected to the Dahua NVR. It supports remote monitoring through the Dahua mobile app, and triggers alarms for motion detection, video tampering, and security exception, providing you with a convenient and secure IP service.

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.

Dual Light

Dahua Dual Light Technology has flexible illumination modes. The warm light in the camera can be used to output full-color videos 24/7, and the IR light can be accessed for general monitoring. The lights can also be manually selected to suit the scene, making the technology suitable for use in residential areas, retail stores, roads and many other locations.

Motion Detection

When moving objects appear in the monitoring image, Dahua Motion Detection technology triggers alarm or records.

- 4-MP 1/3" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 4 MP (2560 × 1440)@30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- Built-in multi-core light, the max. IR distance is 30 m and the max. warm light distance is 15 m.
- DWDR, 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.
- Built in Mic
- 12 VDC/PoE power supply, easy for installation.
- · IP67 protection.













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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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2 streams

Stream Capability

Technical Specification						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)	
Camera								
Image Sensor		1/3" CMOS					Bit Rate Control	VBR;CBR
Max. Resolution		2560 (H) × 1440 (V)					Video Bit Rate	H.264: 32 kbps–4096 kbps;
ROM		16 MB					video bit kate	H.265: 12 kbps–4096 kbps
RAM		64 MB					Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive					BLC	Yes
Electronic Shutter Speed		Auto/Manual	1/3 s - 1/100,0	00 s			HLC	Yes
Min. Illumination		0.008 lux@F1.6 (Color, 30 IRE); 0.0008 lux@F1.6 (B/W, 30 IRE);					WDR	DWDR Auto; natural; street lamp; outdoor; manual; regional
C/N D .:		0 lux (Illuminator on)					White Balance	custom
S/N Ratio		>56 dB					Gain Control	Auto/Manual
Illumination Distance		Up to 30 m (98.43 ft) (IR); Up to 15 m (49.21 ft) (Warm light)					Noise Reduction	3D NR
Illuminator O	n/Off Control	Auto;Manual					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator Number		2 (Multi-core (IR + warm) light)					Region of Interest (RoI)	Yes (4 areas)
		Pan: 0°-360°					Smart Illumination	Yes
Angle Adjustr	nent	Tilt: 0°—90° Rotation: 0°—360°					Image Rotation	0°/180°
Lens							Mirror	Yes
Lens Type		Fixed-focal					Privacy Masking	4 areas
Lens Mount		M12					Audio	
Focal Length		2.8 mm; 3.6 mm					Built-in MIC	Yes, built-in Mic
Max. Aperture		F1.6					Audio Compression	G.711a; G.711Mu; PCM; G.726
Field of View		2.8 mm: H: 94°; V: 52°; D: 111° 3.6 mm: H: 78°; V: 41°; D: 94°					Alarm	
Iris Control		Fixed					Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception
Close Focus Distance		2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (5.58 ft)				Network		
	Lens	Detect	Observe	Recognize	Identify		Network Port	RJ-45 (10/100 Base-T)
	2.8 mm	64.0 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (21.00 ft)		Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2P
DORI	3.6 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)		Interoperability	ONVIF (Profile S & Profile T); CGI
Distance	*DORI (Detec	*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					User/Host	6 (Total bandwidth: 24 M)
							Storage	FTP
	numbers in this table do not reflect intelligent function distances.				n distances.		Browser	IE; Chrome; Firefox
-		t function distances, refer to installation and grand manual/project design tool.					Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
Video				Mobile Client	iOS;Android			
Video Compression Smart Codec		H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) Smart H.265+; Smart H.264+					Cyber Security	Video encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;Generation and importing of X.509 certification;HTTPS;Trusted boot;Trusted
		Main stream: 2560 × 1440@(1–25/30 fps)					Contification	execution;Trusted upgrade
Video Frame Rate		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.					Certification Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
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Power

Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	$\begin{array}{l} {\rm Basic:~1.4~W~(12~VDC),~2.1~W~(PoE);} \\ {\rm Max.:~3.3~W~(12~VDC);~4.5~W~(PoE)~(ICR~switch~+~illuminator~intensity)} \end{array}$		

Environment

Operating Temperature	-40 °C to +50 °C (-40 °F to +122 °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	Plastic
Product Dimensions	198.9 mm × 80.2 mm × 76.2 mm (7.83" × 3.16" × 3.00") (L × W × H)
Net Weight	0.25 kg (0.55 lb)
Gross Weight	0.37 kg (0.82 lb)

Ordering Information

Туре	Model	Description
IP CAMERA	DH-IPC-B1E49-A-IL	4MP ECO Dual Light Fixed- focal Bullet Network Camera
	DH-PFA151	Corner mount bracket
	DH-PFA130-E	Water-proof Junction Box
	G3416GW	G3/4" Water Joint
	DH-PFA152-E	Pole Mount Bracket
Accessories (Optional)	DH-PFA134	Junction box
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM321D-EN	DC12V 1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM900-E	Integrated Mount Tester

Accessories

Optional:







DH-PFA151

Corner mount bracket

DH-PFA130-E Water-proof Junction Box

DH-PFA152-E Pole Mount Bracket







DH-PFA134 Junction box

DH-PFM321-EN DC12V1A power adapter DC12V 1A power adapter

DH-PFM321D-EN





DH-PFM320D-EN DC12V2A power adapter

PFM900-E Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

Dimensions (mm[inch])





