

# DH-IPC-B1E49-A-IL

# 4MP ECO Smart 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.

#### **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.

- 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.
- · Supports human detection.













#### 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	n					Smart Codec	Smart H.265+; Smart H.264+
Camera								Main stream: 2560 × 1440@(1–25/30 fps )
Image Sensor		1/3" CMOS					Video Frame Rate	Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)
Max. Resolution		2560 (H) × 1440 (V)					video Frame Nate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
ROM		16 MB					Stream Capability	2 streams
RAM		64 MB	64 MB				Stream Supusmey	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 ×
Scanning System		Progressive					Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 ×
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s						576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Min. Illumination		0.008 lux@F1.6 (Color, 30 IRE); 0.0008 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)					Bit Rate Control	VBR;CBR H.264: 32 kbps-4096 kbps;
S/N Ratio		> 56 dB					Video Bit Rate	H.265: 12 kbps–4096 kbps
		Up to 30 m (98.43 ft) (IR);					Day/Night	Auto(ICR)/Color/B/W
Illumination Distance		Up to 15 m (49.21 ft) (Warm light)					BLC	Yes
Illuminator (	On/Off Control	Auto; Manual					HLC	Yes
Illuminator Number		2 (Multi-core (IR + warm) light)					WDR	DWDR
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens							Gain Control	Auto/Manual
Lens Type		Fixed-focal					Noise Reduction	3D NR
Lens Mount		M12					Motion Detection	OFF/ON (4 areas, rectangular)
		2.8 mm; 3.6 mm					Region of Interest (RoI)	Yes (4 areas)
Focal Length  May Aperture		F1.6					Smart Illumination	Yes
Max. Aperture		2.8 mm: H: 94°; V: 52°; D: 111°					Image Rotation	0°/180°
Field of View		3.6 mm: H: 78°; V: 41°; D: 94°					Mirror	Yes
Iris Control		Fixed					Privacy Masking	4 areas
Close Focus	Distance	2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (5.58 ft)				Audio		
	Lens	Detect	Observe	Recognize	Identify		Built-in MIC	Yes, built-in Mic
	Lens	64.0 m	25.6 m	12.8 m	6.4 m		Audio Compression	G.711a; G.711Mu; PCM; G.726
	2.8 mm	( 209.97 ft)	( 83.99 ft)	( 41.99 ft)	( 21.00 ft)		Alarm	
DORI Distance	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)		Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; security exception; audio detection; SMD (human)
		*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/project design tool.					Network	
							Network Port	RJ-45 (10/100 Base-T)
	distances. Fo						Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2P
Intelligen	ce						Interoperability	ONVIF (Profile S & Profile T); CGI
Human Detection		Support the classification and accurate detection of					User/Host	6 (Total bandwidth: 24 M)
		human  Wark tagether with Smort NVR to perform refine				Storage	FTP	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to					Browser	IE; Chrome; Firefox
Vidas	VC 1		event videos				Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
Video							Mohile Client	iOS-Android

H.265;H.264H;H.264; H.264B; MJPEG (Only supported

by the sub stream)

Video Compression

Mobile Client

iOS;Android

Video encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;Generation and importing of X.509 certification;HTTPS;Trusted boot;Trusted execution;Trusted upgrade
CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
12 VDC/PoE (802.3af)
Basic: 1.4 W (12 VDC), 2.1 W (PoE); Max.: 3.3 W (12 VDC); 4.5 W (PoE) (ICR switch + illuminator intensity)

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	$198.9~\text{mm} \times 80.2~\text{mm} \times 76.2~\text{mm}~(7.83" \times 3.16" \times 3.00") \\ (\text{L} \times \text{W} \times \text{H})$
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 Smart Dual Light Fixed-focal Bullet Network Camera
	DH-PFA130-E	Water-proof Junction Box
	DH-PFA151	Corner mount bracket
	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-PFA130-E Water-proof Junction Box

DH-PFA151 Corner mount bracket

G3416GW G3/4" Water Joint







DH-PFA152-E Pole Mount Bracket

DH-PFA134 Junction box

DH-PFM321-EN DC12V1A power adapter







DH-PFM321D-EN

DH-PFM320D-EN DC12V 1A power adapter DC12V2A power adapter

PFM900-E Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

## Dimensions (mm[inch])





