

DH-IPC-B1E40-A

4MP ECO IR 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 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.

- 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 IR LED, and the max. illumination distance is 30 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.
- \cdot 12 VDC power supply, easy for installation.
- IP67 protection.













Motion Detection

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

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.

Technical Specification								4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 ×
Camera		UII					Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352
Image Sensor		1/3" CMOS					Bit Rate Control	× 240) CBR/VBR
Max. Resolution		2560 (H) × 1440 (V)						H.264: 32 kbps-4096 kbps
ROM		16 MB					Video Bit Rate	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-1/100,000 s					HLC	Yes
		0.03 lux@F2.2 (Color, 30 IRE)					WDR	DWDR
Min. Illumination		0.003 lux@F2.2 (B/W,30 IRE) 0 lux (Illuminator on)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
S/N Ratio		>56 dB					Gain Control	Auto
Illumination	Illumination Distance		Up to 30 m (98.43 ft) (IR LED)				Noise Reduction	3D NR
Illuminator C	Illuminator On/Off Control						Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator N	lumber	2 (IR LED)					Region of Interest (RoI)	Yes (4 areas)
Angle Adjustment		Pan: 0°-360° Tilt: 0°-90°					Smart Illumination	Yes
,		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		F2.2					Audio Compression	G.711a; G.711Mu; G.726; PCM
Field of View		2.8 mm: H: 90°; V: 49°; D: 106° 3.6 mm: H: 76°; V: 40°; D: 92°					Alarm	
Iris Control		Fixed 2.8 mm: 1.0 m (3.28 ft)					Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; audio detection; video tampering; security exception
Close Focus Distance		3.6 mm: 1.4 m (4.59 ft)					Network	
	Lens	Detect	Observe	Recognize	Identify		Network Port	RJ-45 (10/100 Base-T)
	2.8 mm	68.0 m (223.10 ft)	27.2 m (89.24 ft)	13.6 m (44.62 ft)	6.8 m (22.31 ft)		Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2P
DORI Distance	3.6mm	85.2 m (279.53 ft)	34.1 m (111.88 ft)	17.0 m (55.77 ft)	8.5 m (27.89 ft)		Interoperability	ONVIF (Profile S; Profile T); CGI
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to						User/Host	6 (Total bandwidth: 24 M)
	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.						Storage	FTP
							Browser	IE; Chrome; Firefox
Video							Management Software	Smart PSS Lite; DSS; DMSS
Video Compression		H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)					Mobile Client	iOS;Android
Smart Codec		Smart H.265+; Smart H.264+ Main stream: 2560 × 1440@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30					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
Video Frame Rate		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.					Power	
							Power Supply	12 VDC/PoE
Stream Capability		2 streams					Power Consumption	Basic: 1.4 W (12 VDC); 2.1 W (PoE) Max. (ICR switch+illuminator intensity): 3.0 W (12 VDC); 4.2 W (PoE)

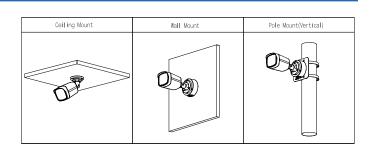
Environment

Operating Temperature	-40 °C to +50 °C (-40 °F to +122 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95%
Protection	IP67

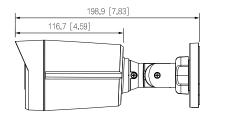
Structure

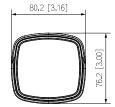
Casing Material	Plastic			
Product Dimensions	198.9 mm × 80.2 mm × 76.2 mm (7.83" × 3.16" × 3.00") (L × W × H)			
Net Weight	0.25 kg (0.55 lb)			
Gross Weight	0.37 kg (0.82 lb)			

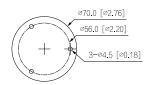
Ordering Information						
Туре	Model	Description				
4MP Camera	DH-IPC-B1E40-A	4MP ECO IR Fixed-focal Bullet Network Camera				
	PFM321D	12 VDC 1 A Power Adapter				
Accessories	PFM900-E	Integrated Mount Tester				
(Optional)	PFA130-E	Water-proof Junction Box				
	PFA157	Pole Mount Bracket				



Dimensions (mm[inch])







Accessories

Optional:



PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



PFA130-E Water-proof Junction Box



PFA157 Pole Mount Bracket