

DH-IPC-B1E20

2MP 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.

- 2-MP 1/3.2" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@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.
- 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification						Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 /704 × 575 /704 × 480); CIF /252 × 289 /252
Camera						Resolution	× 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/3.2" CMOS				Bit Rate Control	CBR/VBR
Max. Resolution		1920 (H) × 1080 (V)				Video Bit Rate	H.264: 32 kbps–4096 kbps H.265: 12 kbps–4096 kbps
ROM		16 MB				Day/Night	Auto(ICR)/Color/B/W
RAM		64 MB				BLC	Yes
Scanning System		Progressive				HLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				WDR	DWDR
Min. Illumination		0.01 lux@F2.2 (Color, 30 IRE) 0.005 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 Distance		Up to 30 m (98.43 ft) (IR LED)				Noise Reduction	3D NR
Illuminator On/Off Control		Auto;Manual				Motion Detection	OFF/ON (4 areas, rectangular)
,		·				Region of Interest (RoI)	Yes (4 areas)
Illuminator Number		2 (IR LED) Pan: 0°-360°				Smart Illumination	Yes
Angle Adjustment		Tilt: 0°–90° Rotation: 0°–	360°			Image Rotation	0°/180°
Lens						Mirror	Yes
Lens Type		Fixed-focal				Privacy Masking	4 areas
Lens Mount		M12				Alarm	
Focal Length		2.8 mm; 3.6 r	mm			Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; security exception
Max. Aperture		F2.2				Network	
Field of View		2.8 mm: H: 99°; V: 55°; D: 117° 3.6 mm: H: 79°; V: 43°; D: 94°				Network Port	RJ-45 (10/100 Base-T)
Iris Control		Fixed				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2P
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft)				Interoperability	ONVIF (Profile S; Profile T); CGI
	Lens	Detect	Observe	Recognize	Identify	User/Host	6 (Total bandwidth: 24 M)
	2.8 mm	44.7 m (146.65 ft)	17.9 m (58.73 ft)	8.9 m (29.20 ft)	4.5 m (14.76 ft)	Storage	FTP
		55.0 m	22.0 m	11.0 m	5.5 m	Browser	IE; Chrome; Firefox
DORI Distance	3.6mm	(180.45 ft)	(72.18 ft)	(36.09 ft)	(18.04 ft)	Management Software	Smart PSS Lite; DSS; DMSS
	(EN-62676-4)	t, Observe, Rec for defining the	e ability of a pe	erson viewing t	he video to	Mobile Client	iOS;Android
	this table do	ersons or object not reflect intel inces, refer to in n tool.	ligent function	distances. For	intelligent	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						Power	
Video Compression		H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)				Power Supply	12 VDC/PoE
Smart Codec		Smart H.265+	+; Smart H.264	+			Basic: 1.2 W (12 VDC); 2.1 W (PoE)
Video Frame Rate		Main stream: $1920 \times 1080@(1-25/30 \text{ fps})$ Sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480@(1-30 \text{ fps})$ *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 Consumption	Max. (ICR switch+illuminator intensity): 2.8 W (12 VDC); 4 W (PoE)
						Environment	
						Operating Temperature	−40 °C to +50 °C (−40 °F to +122 °F)
Stream Capability		2 streams				Operating Humidity	≤95%

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

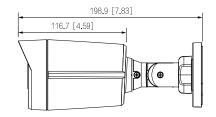
Structure

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

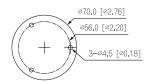
Ordering Information						
Туре	Model	Description				
2MP Camera	DH-IPC-B1E20	2MP ECO IR Fixed-focal Bullet Network Camera				
	PFM321D	12 VDC 1 A Power Adapter				
Accessories	PFM900-E	Integrated Mount Tester				
(Optional)	PFA130-E	Water-proof Junction Box				
	PFA157	Pole Mount Bracket				

Ceiling Mount Wall Mount Pole Mount(Vertical)

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