

# DH-IPC-B1E20-A

# 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.
- · 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  $\pm 30\%$  (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 × 576/704 × 480); CIF (352 × 288/352
Camera								× 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)
Illuminator Number		2 (IR LED)					Region of Interest (RoI)	Yes (4 areas)
		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					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: 99°; V: 55°; D: 117° 3.6 mm: H: 79°; V: 43°; D: 94°					Alarm	
Iris Control		Fixed					Alarm Event	Network disconnection; IP conflict; illegal access; motior detection; audio detection; video tampering; security exception
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft)					Network	
	Lens	Detect	Observe	Recognize	Identify		Network Port	RJ-45 (10/100 Base-T)
DORI Distance	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)		Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP FTP; DHCP; DNS; DDNS; NTP; Multicast; P2P
	3.6mm	55.0 m (180.45 ft)	22.0 m (72.18 ft)	11.0 m (36.09 ft)	5.5 m (18.04 ft)		Interoperability	ONVIF (Profile S; Profile T); CGI
	*DORI (Detect, Observe, Recognize, Identify) is a standard system						User/Host	6 (Total bandwidth: 24 M)
	distinguish pe	(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					Storage	FTP
	function distances, refer to installation and commissioning manual/ project design tool.						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					Mobile Client	iOS;Android
Smart Codec		sub stream)  Smart H.265+; Smart H.264+  Main stream: 1920 × 1080@(1–25/30 fps)					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		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	
							Power Supply	12 VDC/PoE
Stream Capability		2 streams					Power Consumption	Basic: 1.2 W (12 VDC); 2.1 W (PoE) Max. (ICR switch+illuminator intensity): 2.8 W (12 VDC); 4 W (PoE)

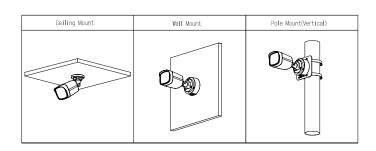
#### Environment

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

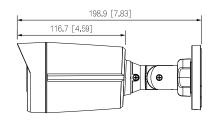
## Structure

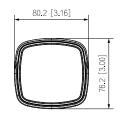
Casing Material	Plastic	
Product Dimensions	198.9 mm $\times$ 80.2 mm $\times$ 76.2 mm (7.83" $\times$ 3.16" $\times$ 3.00") (L $\times$ W $\times$ H)	
Net Weight	0.25 kg (0.55 lb)	
Gross Weight	0.37 kg (0.82 lb)	

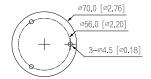
Ordering Information							
Туре	Model	Description					
2MP Camera	DH-IPC-B1E20-A	2MP ECO IR Fixed-focal Bullet Network Camera					
	PFM321D	12 VDC 1 A Power Adapter					
Accessories	PFM900-E	Integrated Mount Tester					
(Optional)	PFA130-E	Water-proof Junction Box					
	PFA157	Pole Mount Bracket					



# 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