

DH-IPC-T1E40-A

4MP ECO IR Fixed-focal Eyeball 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.
- Bulit in Mic.
- 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.

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Technical Specification

Camera					
Image Sensor		1/3" CMOS			
Max. Resolution		2560 (H) × 1440 (V)			
ROM		16 MB			
RAM		64 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.03 lux@F2.2 (Color, 30 IRE) 0.003 lux@F2.2 (B/W,30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>56 dB			
Illumination Distance		Up to 30 m (98.43 ft) (IR LED)			
Illuminator On/Off Control		Auto;Manual			
Illuminator Number		2 (IR LED)			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Aperture		F2.2			
Field of View		2.8 mm: H: 90°; V: 49°; D: 106° 3.6 mm: H: 76°; V: 40°; D: 92°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 1.4 m (4.59 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	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)
	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)
	*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.				
Video					

Video

Video Compression	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)		
Smart Codec	Smart H.265+; Smart H.264+		
Video Frame Rate	Main stream: 2560 × 1440@(1–25/30 fps) 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.		
Stream Capability	2 streams		

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)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H.264: 32 kbps-4096 kbps H.265: 12 kbps-4096 kbps	
Day/Night	Auto(ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	DWDR	
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest (RoI)	Yes (4 areas)	
Smart Illumination	Yes	
Image Rotation	0°/180°	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Built-in MIC	Yes, built-in Mic	
Audio Compression	G.711a; G.711Mu; G.726; PCM	
Alarm		
Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; audio detection; video tampering; security exception	
Network		
Network Port	RJ-45 (10/100 Base-T)	
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2P	
Interoperability	ONVIF (Profile S; Profile T); CGI	
User/Host	6 (Total bandwidth: 24 M)	
Storage	FTP	
Browser	IE; Chrome; Firefox	
Management Software	Smart PSS Lite; DSS; DMSS	
Mobile Client	iOS;Android	
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	
Power		
Power Supply	12 VDC/PoE	
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)	

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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	103.2 mm × Φ109.9 mm (4.06" × Φ4.33")		
Net Weight	0.24 kg (0.53 lb)		
Gross Weight	0.38 kg (0.84 lb)		

Accessories

Optional:



12 VDC 1 A Power

Adapter

PFA13G

Junction Box



PFM900-E

Integrated

Mount Tester

PFA109

Mount Adapter



PFB205W-E Wall Mount Bracket



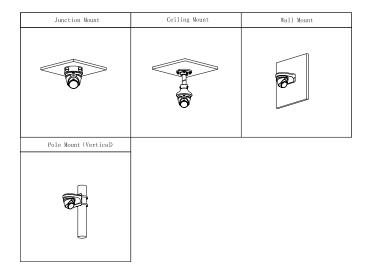
PFB220C Ceiling Mount Bracket

Ordering Information

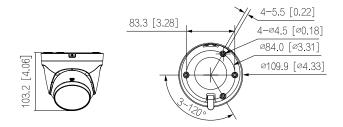
Туре	Model	Description	
4MP Camera	DH-IPC-T1E40-A	4MP ECO IR Fixed-focal Eyeball Network Camera	
Accessories (Optional)	PFM321D	12 VDC 1 A Power Adapter	
	PFM900-E	Integrated Mount Tester	
	PFB205W-E	Wall Mount Bracket	
	PFA13G	Junction Box	
	PFA109	Mount Adapter	
	PFB220C	Ceiling Mount Bracket	
	PFA152-E	Pole Mount Bracket	



PFA152-E Pole Mount Bracket



Dimensions (mm[inch])



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