

## DH-IPC-T1E20

## 2MP 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.

- 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	Technical Specification						Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CE (252 × 288/252
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
							Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/Off Control Illuminator Number		Auto;Manual					Region of Interest (RoI)	Yes (4 areas)
mummator r	vumber	2 (IR LED) Pan: 0°–360°					Smart Illumination	Yes
Angle Adjustment		Till: 0°–78° Rotation: 0°–360°					Image Rotation	0°/180°
Lens							Mirror	Yes
Lens Type	Lens Type						Privacy Masking	4 areas
Lens Mount		M12					Audio	
Focal Length	Focal Length		nm				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	17.9 m	8.9 m	4.5 m		Storage	FTP
		(146.65 ft) 55.0 m	(58.73 ft) 22.0 m	(29.20 ft) 11.0 m	(14.76 ft) 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
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to						Mobile Client	iOS;Android
	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.						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	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+  Main stream: 1920 × 1080@(1–25/30 fps)					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)
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					Environment	. ,
							Operating Temperature	-40 °C to +50 °C (-40 °F to +122 °F)
Stream Canability		to the total encoding capacity.					Operating Humidity	≤95%
Stream Capability		2 streams						

Storage Temperature

-40 °C to +60 °C (-40 °F to +140 °F)

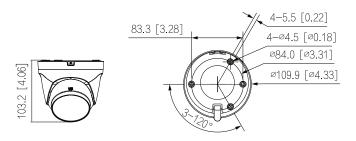
## ECO Series | DH-IPC-T1E20

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)			

Ordering Information							
Туре	Model	Description					
2MP Camera	DH-IPC-T1E20	2MP ECO IR Fixed-focal Eyeball Network Camera					
	PFM321D	12 VDC 1 A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	PFB205W-E	Wall Mount Bracket					
Accessories (Optional)	PFA13G	Junction Box					
	PFA109	Mount Adapter					
	PFB220C	Ceiling Mount Bracket					
	PFA152-E	Pole Mount Bracket					

# Junction Mount Ceiling Mount Wall Mount Pole Mount (Vertical)

## Dimensions (mm[inch])



### Accessories

### Optional:



PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



PFB205W-E Wall Mount Bracket



PFA13G Junction Box



Mount Adapter



PFB220C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket