

# 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification		Stream Capability	2 streams				
Camera							1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Image Sensor		1/3.2" CMOS				Resolution	× 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Max. Resolution		1920 (H) × 1080 (V)				Bit Rate Control	CBR/VBR
ROM		16 MB				Video Bit Rate	H.264: 32 kbps-4096 kbps H.265: 12 kbps-4096 kbps
RAM		64 MB				Day/Night	Auto(ICR)/Color/B/W
Scanning Sys	Scanning System					BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				HLC	Yes
		0.01 lux@F2.2 (Color, 30 IRE)				WDR	DWDR
Min. Illumina	Min. Illumination		2.2 (B/W,30 IRE ator on)	Ξ)		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
S/N Ratio	S/N Ratio					Gain Control	Auto
Illumination	Distance	Up to 30 m (98.43 ft) (IR LED)				Noise Reduction	3D NR
Illuminator C	n/Off Control	Auto;Manual				Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator N	Illuminator Number					Region of Interest (RoI)	Yes (4 areas)
Angle Adjust	ment	Pan: 0°-360° Tilt: 0°-78°				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					
Max. Apertu	re	F2.2					
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; motion detection; audio detection; video tampering; security
Close Focus I	Distance	2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft)				Network	exception
	Lens	Detect	Observe	Recognize	Identify	Network Port	RJ-45 (10/100 Base-T)
	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
DORI	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
Distance		t, Observe, Rec	-		•	User/Host	6 (Total bandwidth: 24 M)
	distinguish pe	for defining the ersons or object	s within a cove	ered area. The	numbers in	Storage	FTP
		not reflect intelligent function distances. For intelligent inces, refer to installation and commissioning manual/ n 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
		sub stream)					Configuration encryption; Trusted
Smart Codec		Smart H.265+; Smart H.264+  Main stream: 1920 × 1080@(1–25/30 fps)				Cyber Security	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				Power	
				s, the values w	es of each ill be subjected	Power Supply	12 VDC/PoE

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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	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		

## 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

Junction Mount	Ceiling Mount	Wall Mount	
Pole Mount (VerticaD			

# Dimensions (mm[inch])

