

# DH-IPC-T1E29-A-IL

2MP ECO Smart Dual Light 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 Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

### **Human Detection**

Dahua intelligent algorithms extract moving human targets from videos and filters out alarms that are triggered by non-human targets to increase the accuracy and effectiveness of alarms.

- 2-MP 1/2.8" 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 multi-core light, the max. IR distance is 30 m and the max. warm light distance is 15 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.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- Supports human detection.



### 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.

### ECO Series | DH-IPC-T1E29-A-IL

Technical S	Specificatio	n			
Camera					
Image Sensor		1/2.8" CMOS			
Max. Resolution		1920 (H) × 1080 (V)			
ROM		16 MB			
RAM		64 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)			
S/N Ratio		> 56 dB			
Illumination Distance		Up to 30 m (98.43 ft) (IR); Up to 15 m (49.21 ft) (Warm light)			
Illuminator On/Off Control		Auto;Manual			
Illuminator Nu	umber	2 (Multi-core (IR + warm) light)			
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		F1.6			
Field of View		2.8 mm: H: 105°; V: 56°; D: 126° 3.6 mm: H: 87°; V: 44°; D: 105°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.3 m (4.27 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	43.9 m ( 144.03 ft)	17.5 m ( 57.41 ft)	8.8 m ( 28.87 ft)	4.4 m ( 14.44 ft)
	3.6 mm	58.9 m ( 193.24 ft)	23.6 m ( 77.43 ft)	11.8 m ( 38.71 ft)	5.9 m ( 19.36 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.				

(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.

### Intelligence

Human Detection	Support the classification and accurate detection of human
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Video	
Video Compression	H.265; H.264H; H.264; H.264B; MJPEG (Only supported by the sub stream)

Nulse Grame RateMain stream: 1920 × 1080@(1-25/30 fps) sub stream; rof × 576@(1-25 fps)/704 × 480@(1-30 subjected to the total encoding capabilityStream Capability2 streamsResolution0800 (1920 × 1080); 1.3M (1280 × 960); 720 (1280 × (522 × 28/352 × 240)Bit Rate ControlVBR.CBVideo Bit RateH.264: 32 kbps-4096 kbps; H.265: 12 kbps-4096 kb	Smart Codec	Smart H.265+; Smart H.264+
Resolution1080p (1320 × 1080); 1.3M (1280 × 960); 720p (1280× 220); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (S52 × 288/352 × 240)Bit Rate ControlVBR,CBRVideo Bit RateH.264: 32 kbps-4096 kbps; H.265: 12 kbps-4000 kbps: 12 kbps-4000; 12 kbps-	Video Frame Rate	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
Resolution220; D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)Bit Rate ControlVBR,CBRVideo Bit RateH.264: 32 kbps-4096 kbps; H.265: 12 kbps-4096 kbpsDay/NightAuto(ICR)/Color/B/WBLCYesHLCVesHLCDWDRWDRMutic, natural; street lamp; outdoor; manual; regional customGain ControlAuto; natural; street lamp; outdoor; manual; regional 	Stream Capability	2 streams
Video Bit RateH 264: 32 kbps-4096 kbps; H 265: 12 kbps-4096 kbps; H 265: 12 kbps-4096 kbps; H 265: 12 kbps-4096 kbps; H 265: 12 kbps-4096 kbps; H 2000 kbpsDay/NightAuto(/CR)/Color/B/WBLCYesHLCYesHLCYesWDRDWDRWhat BalanceAuto; natural; street lamp; outdoor; manual; regional customGain ControlAuto/ManualNoise Reduction3D NRMotion DetectionOFF/ON (4 areas, rectangular)Motion DetectionVes (4 areas)Smart IlluminationYesMirrorYesInage Rotation0/180°MirrorYesAudioCompressionAudio Compression6.711a; G.711Mu; PCM; G.726AudioStorape time streng; audio detection; security sception; SMD (human)Network PortR+So (10100 Base-T)Network PortPV4; IPV6; HTTP; CP; UDP; ARP; RTP; RTSP; RTP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2PInteroperabilityONVIF (Profile S & Profile T); CGIUser/HostFTPHorower CompressionFTPStorageFTPFrefoxFTPFrefoxFTPFrefoxFTPFrefoxFTPFrefoxFTPFrefoxFTPFrefoxFTPFrefoxFTPFrefoxFTPFrefoxFTPFrefoxFTPFrefoxFTPFrefoxFTPFrefoxFTPFrefoxFTP <td>Resolution</td> <td>720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF</td>	Resolution	720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Video Bit RateH.265: 12 kbps-4096 kbpsDay/NightAuto(ICR)/Color/B/WBLCYesHLCYesHLCYesWDRDWDRWhite BalanceAuto; natural; street lamp; outdoor; manual; regional customGain ControlAuto/ManualNoise Reduction3D NRMotion DetectionOFF/ON (4 areas, rectangular)Region of Interest (Rol)Yes (4 areas)Image Rotation0'180°MirrorYesPrivacy Masking4 areasAudio CompressionG.711a; G.711Mu; PCM; G.726Alarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)Network PortR.454 (10/100 Base-T)Network PortocolIP4; IP4; IP4; IPTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DNS), NTP; Multicast; P2PInteroperabilityONVIF (Profile S & Profile T); CGIUser/HostFTPFrowserIE; Chrome; FirefoxManagement SoftwareSmart SUS; SDLynk Care	Bit Rate Control	VBR;CBR
BLCYesHLCYesHLCWoRWDRDWDRWhite BalanceAuto; natural; street lamp; outdoor; manual; regional customGain ControlAuto/ManualNoise ReductionSD NRMotion DetectionOFF/ON (4 areas, rectangular)Region of Interest (Roi)Yes (4 areas)Smart IlluminationYesImage Rotation07/180°MirrorYesPrivacy Masking4 areasAudio CompressionG.711a; G.711Mu; PCM; G.726Audio CompressionG.711a; G.711Mu; PCM; G.726Alarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)Network ProtocolRu4 5( 10/100 Base-T)Network ProtocolG.711a G.711Mu; PCH; C.GIInteroperabilityONVIF (Profile S & Profile T); CGIInteroperabilityGVIF (Profile S & Profile T); CGIStorageIFPBrowserIE; Chrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; DoLynk Care	Video Bit Rate	
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WDRWDRWhite BalanceAuto; natural; street lamp; outdoor; manual; regional customGain ControlAuto/ManualNoise Reduction3D NRMotion DetectionOFF/ON (4 areas, rectangular)Region of Interest (Rol)Yes (4 areas)Smart IlluminationYesImage Rotation0'/180°MirrorYesPrivacy Masking4 areasAudioCompressionAudio Compression6.7113 (G.711Mu; PCM; G.726Audio Compression5.7114 (G.711Mu; PCM; G.726Alarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)Network ProtocolR-45 (10/100 Base-T)Network ProtocolSUY4 (IPAG; HTTP; TCP; UDP; ARP; RTSP; RTSP; STTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2PInteroperabilityONVIF (Profile S & Profile T); CGIUser/HostFTPBrowserIE; Chrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; DoLynk Care	BLC	Yes
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Noise ReductionJA NRMotion DetectionOFF/ON (4 areas, rectangular)Region of Interest (Rol)Yes (4 areas)Smart IlluminationYesImage Rotation0°/180°MirrorYesPrivacy Masking4 areasAudioYes, built-in MicAudio Compression6.711a; G.711Mu; PCM; G.726Alarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; sourci y security exceptior; SMD (human)Network PortRI-45 (10/100 Base-T)Network ProtocolIPV4; IPV6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2PInteroperabilityONVIF (Profile S & Profile T); CGIUser/HostFTPBrowserIE; Chrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; DoLynk Care	White Balance	
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Region of Interest (Rol)Yes (4 areas)Smart IlluminationYesImage Rotation0'/180°Image Rotation0'/180°MirrorYesPrivacy Masking4 areasAudioYes, built-in MicAudio CompressionG.711a; G.711Mu; PCM; G.726AlarmYesAlarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)Network PortRI-45 (10/100 Base-T)Network ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2PInteroperabilityONVIF (Profile S & Profile T); CGIUser/HostFTPBrowserIE; Chrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; DoLynk Care	Noise Reduction	3D NR
Smart IlluminationYesImage Rotation0°/180°Image Rotation0°/180°MirrorYesPrivacy Masking4 areasAudio4 areasBuilt-in MICYes, built-in MicAudio CompressionG.711a; G.711Mu; PCM; G.726AlarmNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)NetworkNetworkNetwork PortRI-45 (10/100 Base-T)Network ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2PInteroperabilityONVIF (Profile S & Profile T); CGIUser/Host6 (Total bandwidth: 24 M)StorageFTPBrowserLi; Chrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; DoLynk Care	Motion Detection	OFF/ON (4 areas, rectangular)
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Privacy Masking4 areasPudioBuilt-in MICYes, built-in MicAudio CompressionG.711a; G.711Mu; PCM; G.726AlarmCompressionAlarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)NetworkNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)NetworkNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)NetworkNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)NetworkNetworkNetworkRideo tampering; audio detection; security exception; SMD (human)Network PortoRJ-45 (10/100 Base-T)InteroperabilityONVIF (Profile S & Profile T); CGIUser/HostG (Total bandwidth: 24 M)StorageFTPBrowserIE; Chrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; DoLynk Care	Image Rotation	0°/180°
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Built-in MICYes, built-in MicAudio CompressionG.711a; G.711Mu; PCM; G.726AlarmAlarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)NetworkNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)NetworkNetworkNetwork PortRJ-45 (10/100 Base-T)Network ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2PInteroperabilityONVIF (Profile S & Profile T); CGIUser/Host6 (Total bandwidth: 24 M)StorageFTPBrowserIE; Chrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; DoLynk Care	Privacy Masking	4 areas
Audio CompressionG.711a; G.711Mu; PCM; G.726AlarmAlarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)NetworkRJ-45 (10/100 Base-T)Network PortRJ-45 (10/100 Base-T)Network ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2PInteroperabilityONVIF (Profile S & Profile T); CGIUser/Host6 (Total bandwidth: 24 M)StorageFTPBrowserIE; Chrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; DoLynk Care	Audio	
AlarmAlarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)NetworkRi-45 (10/100 Base-T)Network PortoRI-45 (10/100 Base-T)Network ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2PInteroperabilityONVIF (Profile S & Profile T); CGIUser/Host6 (Total bandwidth: 24 M)StorageFTPBrowserIE; Chrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; DoLynk Care	Built-in MIC	Yes, built-in Mic
Alarm EventNetwork disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)NetworkRNetwork PortRJ-45 (10/100 Base-T)Network ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2PInteroperabilityONVIF (Profile S & Profile T); CGIUser/Host6 (Total bandwidth: 24 M)StorageFTPBrowserIE; Chrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; Dolynk Care	Audio Compression	G.711a; G.711Mu; PCM; G.726
Alarm Eventmotion detection; video tampering; audio detection; security exception; SMD (human)NetworkRNetwork PortRJ-45 (10/100 Base-T)Network ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2PInteroperabilityONVIF (Profile S & Profile T); CGIUser/Host6 (Total bandwidth: 24 M)StorageFTPBrowserIE; Chrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; DoLynk Care	Alarm	
Network PortRJ-45 (10/100 Base-T)Network ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2PInteroperabilityONVIF (Profile S & Profile T); CGIUser/Host6 (Total bandwidth: 24 M)StorageFTPBrowserIE; Chrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; Dolynk Care	Alarm Event	motion detection; video tampering; audio detection;
Network ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2PInteroperabilityONVIF (Profile S & Profile T); CGIUser/Host6 (Total bandwidth: 24 M)StorageFTPBrowserIE; Chrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; DoLynk Care	Network	
Network Protocol 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; DoLynk Care	Network Port	RJ-45 (10/100 Base-T)
User/Host6 (Total bandwidth: 24 M)StorageFTPBrowserIE; Chrome; FirefoxManagement SoftwareSmart PSS Lite; DSS; DMSS; DoLynk Care	Network Protocol	
Storage FTP   Browser IE; Chrome; Firefox   Management Software Smart PSS Lite; DSS; DMSS; DoLynk Care	Interoperability	ONVIF (Profile S & Profile T); CGI
Browser IE; Chrome; Firefox   Management Software Smart PSS Lite; DSS; DMSS; DoLynk Care	User/Host	6 (Total bandwidth: 24 M)
Management Software Smart PSS Lite; DSS; DMSS; DoLynk Care	Storage	FTP
	Browser	IE; Chrome; Firefox
Mobile Client iOS;Android	Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
	Mobile Client	iOS;Android

### ECO Series | DH-IPC-T1E29-A-IL

Cyber Security	Video encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;Generation and importing of X.509 certification;HTTPS;Trusted boot;Trusted execution;Trusted upgrade	
Certification		
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU	
Power		
Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 1.4 W (12 VDC); 1.8 W (PoE); Max. : 3.4 W (12 VDC); 4.2 W (PoE) (ICR switch + illuminator intensity)	
Environment		
Operating Temperature	-40 °C to +50 °C (-40 °F to +122 °F)	
Operating Humidity	≤95% (RH), non-condensing	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Storage Humidity	≤95% (RH), non-condensing	
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 ECO Smart Dual Light IP CAMERA DH-IPC-T1E29-A-IL Fixed-focal Eyeball Network Camera DH-PFB220C Ceiling Mount Bracket DH-PFA109 Mount adapter DH-PFB305W Wall mount bracket DH-PFA151 Corner mount bracket DH-PFA150 Pole Mount Bracket DH-PFB205W-E Wall Mount Bracket Accessories (Optional) DH-PFA152-E Pole Mount Bracket DH-PFA13G Junction box DH-PFM321-EN DC12V1A power adapter DH-PFM321D-EN DC12V 1A power adapter DH-PFM320D-EN DC12V2A power adapter PFM900-E Integrated Mount Tester

### Accessories

DH-PFB220C

Ceiling Mount Bracket

DH-PFA151

Corner mount bracket

### Optional:



DH-PFA109

Mount adapter



DH-PFB305W Wall mount bracket



DH-PFA150

Pole Mount Bracket



DH-PFB205W-E Wall Mount Bracket





DC12V1A power adapter

DH-PFA152-E Pole Mount Bracket

DH-PFA13G Junction box

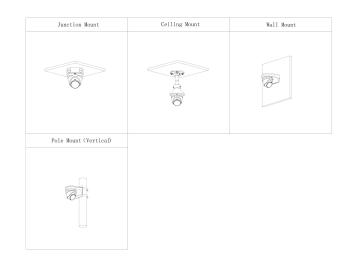




DH-PFM321D-EN DC12V 1A power adapter

DH-PFM320D-EN DC12V2A power adapter

PFM900-E Integrated Mount Tester



## Dimensions (mm[inch]) rmm [inch] 83.3 [3.28] 4-5.5 [0.22] 4-64.5 [00.18] 84.0 [03.31] 0109.9 [04.33]

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