

# DH-IPC-T1E49P-A1-IL-028BS2

4MP 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.

- 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 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.
- · 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.

Technical	Specificatio	n				Smart Codec	Smart H.265+; Smart H.264+
Camera							Main stream: 2560 × 1440@(1–25/30 fps )
Image Sensor		1/3" CMOS				Video Frame Rate	Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)
Max. Resoluti	ion	2560 (H) × 14	40 (V)			video France Rate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be
ROM		16 MB				Stroom Conshility	subjected to the total encoding capacity.
RAM		64 MB				Stream Capability	2 streams
Scanning Syst	em	Progressive				Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 ×
Electronic Sh	utter Speed	Auto/Manual	1/3 s-1/100,0	00 s		Resolution	576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Min. Illumina	tion		6 (Color, 30 IR 1.6 (B/W, 30 IR			Bit Rate Control	VBR;CBR
S/N Ratio		> 56 dB	itor on,			Video Bit Rate	H.264: 32 kbps-4096 kbps; H.265: 12 kbps-4096 kbps
S/ IV IVALIO		Up to 30 m (9	18 /13 ft) /IB)·			Day/Night	Auto(ICR)/Color/B/W
Illumination [	Distance		9.21 ft) (Warm	light)		BLC	Yes
Illuminator O	n/Off Control	Auto;Manual				HLC	Yes
Illuminator N	umber	2 (Multi-core	(IR + warm) lig	nt)		WDR	DWDR
Angle Adjustr	ment	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–3	360°			White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens		Notation. 0	300			Gain Control	Auto/Manual
Lens Type		Fixed-focal				Noise Reduction	3D NR
Lens Mount		M12				Motion Detection	OFF/ON (4 areas, rectangular)
Focal Length		2.8 mm; 3.6 n	nm			Region of Interest (RoI)	Yes (4 areas)
_	0	F1.6	11111			Smart Illumination	Yes
Max. Apertur	е		1°; V: 52°; D: 11	10		Image Rotation	0°/180°
Field of View			3°; V: 41°; D: 94			Mirror	Yes
Iris Control		Fixed				Privacy Masking	4 areas
Close Focus D	Distance	2.8 mm: 1.1 n 3.6 mm: 1.7 n				Audio	
	Lens	Detect	Observe	Recognize	Identify	Built-in MIC	Yes, built-in Mic
	2.0	64.0 m	25.6 m	12.8 m	6.4 m	Audio Compression	G.711a; G.711Mu; PCM; G.726
	2.8 mm	( 209.97 ft)	( 83.99 ft)	( 41.99 ft)	( 21.00 ft)	Alarm	
DORI Distance	3.6 mm	85.4 m ( 280.18 ft)	34.2 m ( 112.20 ft)	17.1 m ( 56.10 ft)	8.5 m ( 27.89 ft)	Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)
		ct, Observe, Re for defining th	-		•	Network	
		nguish persons in this table do				Network Port	RJ-45 (10/100 Base-T)
	distances. Fo	r intelligent fur ioning manual,	nction distance	es, refer to ins		Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; P2P
Intelligend	ce					Interoperability	ONVIF (Profile S & Profile T); CGI
Human Detec	ction	Support the c	lassification an	d accurate det	ection of	User/Host	6 (Total bandwidth: 24 M)
			r with Smart N	VR to perform	refine	Storage	FTP
Smart Search		_	rch, event extr			Browser	IE; Chrome; Firefox
Video		event videos				Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
video		H 265-U 2641	l;H.264; H.264	S. MIDEC /Only	v supported	Mobile Client	iOS;Android

H.265;H.264H;H.264; H.264B; MJPEG (Only supported

by the sub stream)

Video Compression

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), 2.1 W (PoE); Max.: 3.3 W (12 VDC); 4.5 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)

## Structure

Storage Humidity

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)

≤95% (RH), non-condensing

Ordering Information	n	
Туре	Model	Description
IP CAMERA	DH-IPC-T1E49-A-IL	4MP ECO Smart Dual Light Fixed-focal Eyeball Network Camera
	DH-PFB220C	Ceiling Mount Bracket
	DH-PFA109	Mount adapter
	DH-PFA151	Corner mount bracket
	DH-PFB305W	Wall mount bracket
	DH-PFA150	Pole Mount Bracket
Accessories (Optional)	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

# Optional:







DH-PFB220C Ceiling Mount Bracket

DH-PFA109 Mount adapter

DH-PFA151 Corner mount bracket







DH-PFB305W Wall mount bracket

DH-PFA150 Pole Mount Bracket

DH-PFB205W-E Wall Mount Bracket







DH-PFA152-E Pole Mount Bracket

DH-PFA13G Junction box

DH-PFM321-EN DC12V1A power adapter







DH-PFM321D-EN

DH-PFM320D-EN DC12V 1A power adapter DC12V2A power adapter

PFM900-E Integrated Mount Tester

	6
Pole Mount (VerticaD	

# Dimensions (mm[inch])

mm [inch]

