



[Home](#) » [Dahua](#) » **dahua DH-IPC-T1E49-A-IL 4MP ECO Smart Dual Light Fixed Network Camera**

**Owner's Manual** 

## Contents [ [hide](#) ]

- [1 dahua DH-IPC-T1E49-A-IL 4MP ECO Smart Dual Light Fixed Network Camera](#)
- [2 Technical Specification](#)
- [3 Dimensions \(mm\[inch\]\)](#)
- [4 Series Overview](#)
- [5 Functions](#)
- [6 Setting Up the Camera](#)
- [7 Cyber Security](#)
- [8 Protection \(IP67, Wide Voltage\)](#)
- [9 FAQs](#)
- [10 Documents / Resources](#)
  - [10.1 References](#)



**dahua DH-IPC-T1E49-A-IL 4MP ECO Smart Dual Light Fixed Network Camera**



## 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	0.008 lux@F1.6 (Color, 30 IRE); 0.0008 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 Number	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: 94°; V: 52°; D: 111°  3.6 mm: H: 78°; V: 41°; D: 94°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 1.1 m (3.61 ft)  3.6 mm: 1.7 m (5.58 ft)			
	Lens	Detect	Observe	Recognize	Identify

DORI Distance	2.8 mm	64.0 m ( 209.97 ft)	25.6 m ( 83.99 ft)	12.8 m ( 41.99 ft)	6.4 m ( 21.00 ft)
	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)
	*DORI (Detect, Observe, Recognize, Identify)	is a standard system			
	(EN-62676-4)	for defining the ability of a person to view the			
	video to distinguish	persons or objects within a covered area.			
	The numbers	This table does not reflect an intelligent function			
	Distances. For	Intelligent function distances refer to the 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 refined 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)
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	VBR;CBR
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/Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (Rol)	Yes (4 areas)
Smart Illumination	Yes

## Audio

Built-in MIC	Yes, built-in Mic
Audio Compression	G.711a; G.711Mu; PCM; G.726

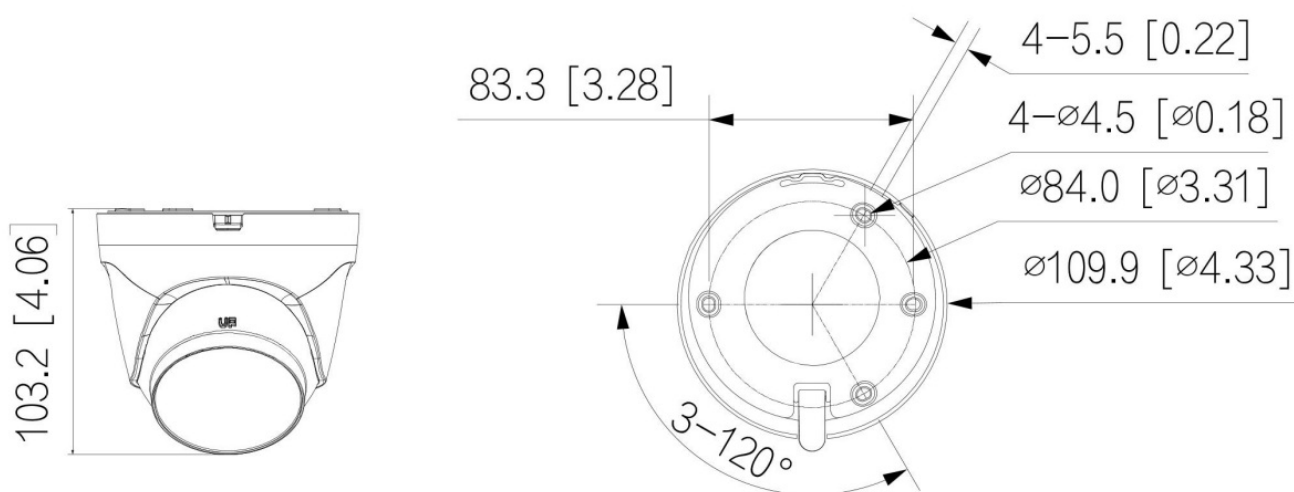
## Alarm

Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)
-------------	---

## Network

Network Port	RJ-45 (10/100 Base-T)
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTP; 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, DoLink Care
Mobile Client	iOS;Android

## Dimensions (mm[inch])



## 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 exceptions, providing you with a convenient and secure IP service.

## **Functions**

### **Smart H.265+ & Smart H.264+**

With an advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes 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 a 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 full-color video and information of key events. That is, the camera links snapshot and video with a 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.

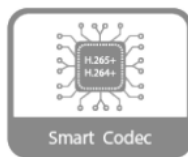
### **Human Detection**

Dahua's intelligent algorithms extract moving human targets from videos and filter 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 maximum. 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.



## Setting Up the Camera

Connect the camera to the Dahua NVR using the provided cables. Ensure proper power supply and network connection.

## Remote Monitoring

Download the Dahua mobile app on your smartphone and follow the instructions to connect the camera for remote monitoring.

## 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 tests on dust and soak. It has a 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 an outdoor environment with unstable voltage.

## FAQs

### Q: How can I adjust the angle of the camera?

A: The camera comes with an angle adjustment feature that allows you to modify the viewing angle for better coverage.


**Q: Can I use this camera in low-light conditions?**

A: Yes, the camera has a low illumination capability, making it suitable for use in various lighting environments.

**Q: Does the camera support human detection?**


A: Yes, the camera utilizes intelligent algorithms for human detection, enhancing accuracy in identifying human targets.


**Documents / Resources**

	<p><a href="#">dahua DH-IPC-T1E49-A-IL 4MP ECO Smart Dual Light Fixed Network Camera [pdf]</a> Owner's Manual</p> <p>DH-IPC-T1E49-A-IL, DH-IPC-T1E49-A-IL 4MP ECO Smart Dual Light Fixed Network Camera, 4MP ECO Smart Dual Light Fixed Network Camera, ECO Smart Dual Light Fixed Network Camera, Dual Light Fixed Network Camera, Fixed Network Camera, Network Camera</p>
---	--

**References**

- [User Manual](#)

 Dahua

 4MP ECO Smart Dual Light Fixed Network Camera, Dahua, DH-IPC-T1E49-A-IL, DH-IPC-T1E49-A-IL 4MP ECO Smart Dual Light Fixed Network Camera, Dual Light Fixed Network Camera, ECO Smart Dual Light Fixed Network Camera, Fixed Network Camera, Network Camera

**Leave a comment**

Your email address will not be published. Required fields are marked \*

Comment \*

Name

Email

Website

☐ Save my name, email, and website in this browser for the next time I comment.

**Post Comment**

**Search:**

e.g. whirlpool wrf535swhz

**Search**

[Manuals+](#) | [Upload](#) | [Deep Search](#) | [Privacy Policy](#) | [@manuals.plus](#) | [YouTube](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.