

**Dahua**  
TECHNOLOGY

# TiOC 2.0

## 3-in-1 Camera

Your Effective Deterrent Against Intruders



Smart Dual  
Illuminators



VoiceCatcher  
Technology



Better  
Image



Easy  
Operation



AI  
Features

## | What is TiOC 2.0?

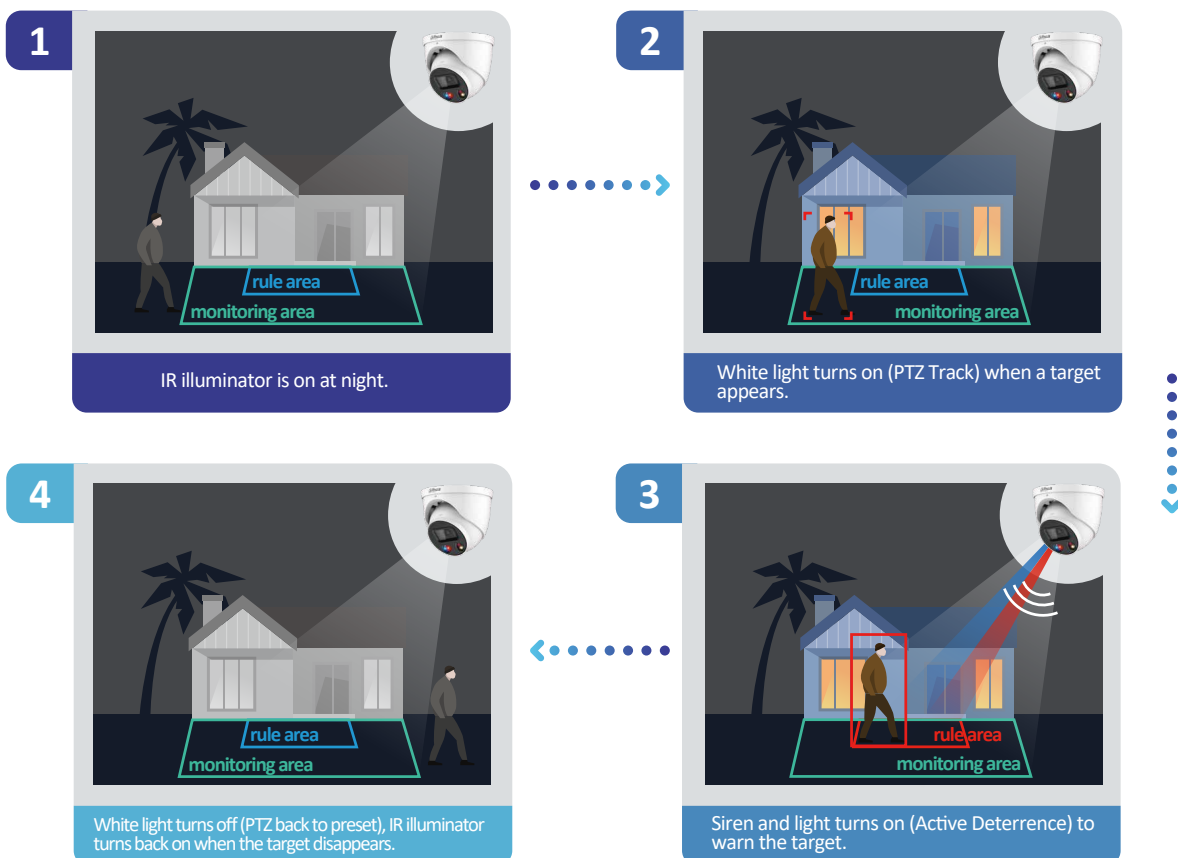
With its foundation from the previous generation of TiOC, a variety of new innovative technologies are introduced in the latest TiOC 2.0 for the first time, achieving breakthroughs and quality improvements in illuminators, audio and images. At the same time, TiOC 2.0 can be integrated with alarm system through software upgrades. It provides better ecosystem that offers more convenient operation and better user experience.

## | Key Features



### Smart Dual Illuminators

- Smart Illumination Mode (Default): Switch between IR Mode and white light when target is detected.

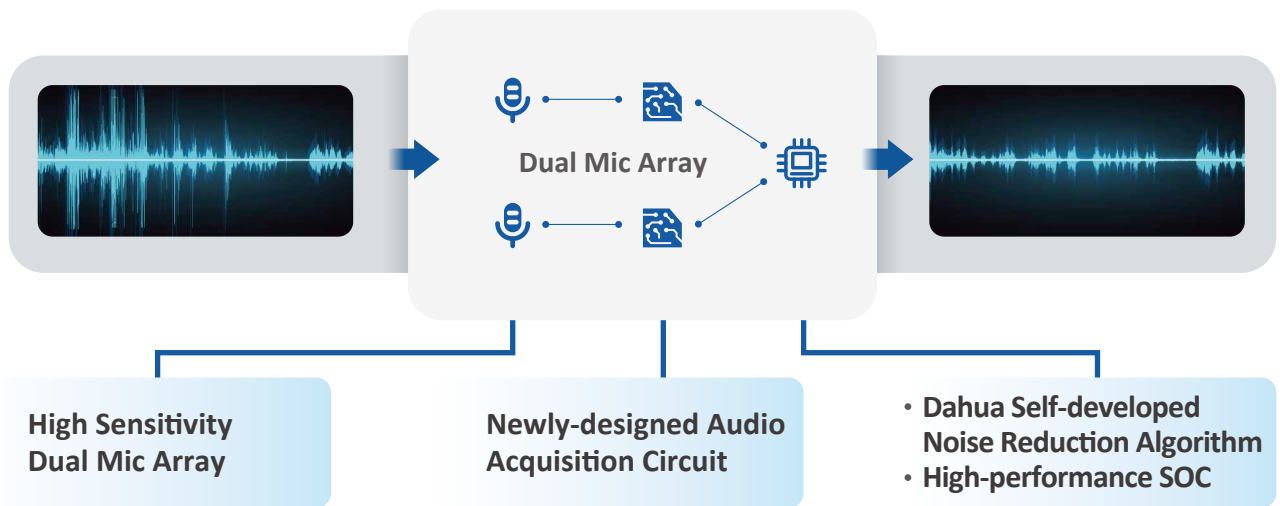


- IR Mode (Optional): Only the IR illuminator is ON. It is suitable for scenes where supplementary white light is not required, significantly reducing light pollution.
- White Light Mode (Optional): Only the white light is ON. It is suitable for scenes that require color video footages.



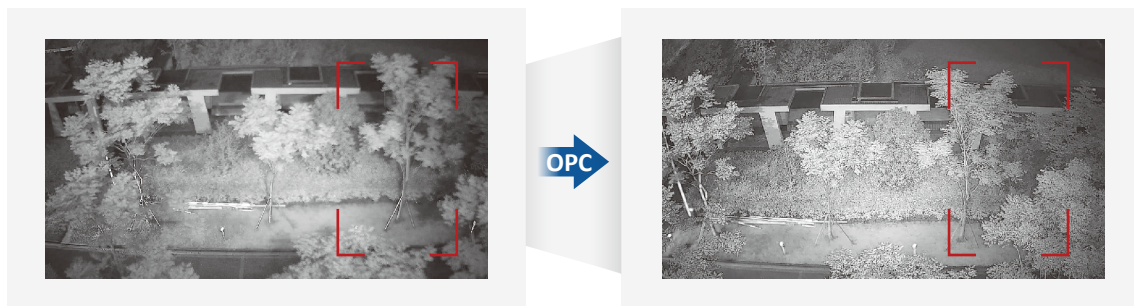
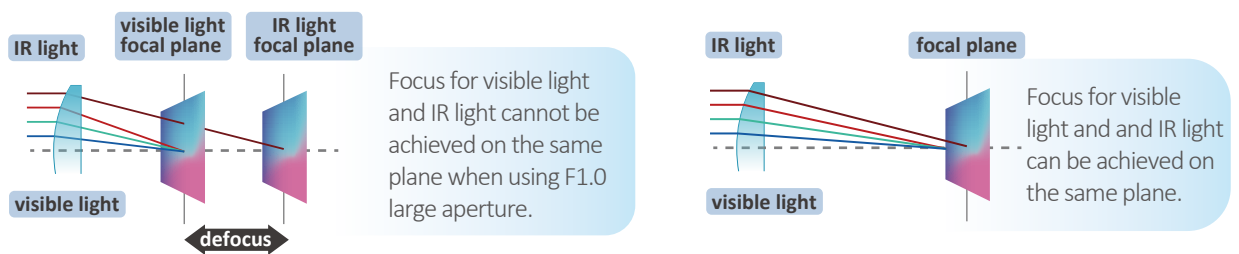
### VoiceCatcher Technology

- Newly-designed Dual Mic Array intercepts external circuit interference.
- Audio pick-up distance is increased by 7 meters compared with the previous version of TiOC.
- The Dahua VoiceCatcher reduces noise and extracts audible audio signals.



### Better Image

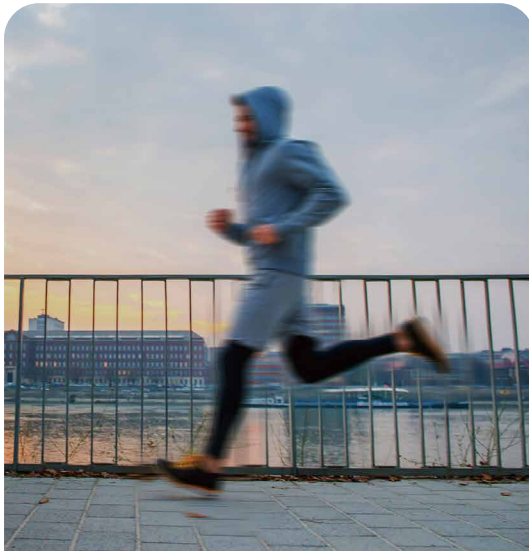
- First Dahua camera powered by OPC (Optical Path Technology). It corrects the refraction angle of different light path. With F1.0 large aperture lens, it outputs brighter and clearer black & white images.



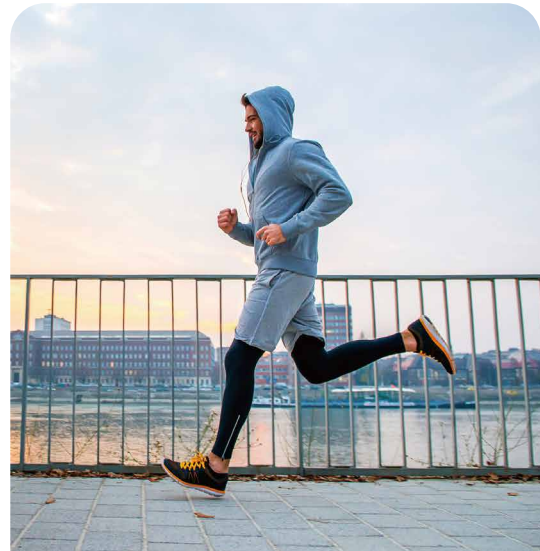
With the OPC technology, the details of the tree are clear, and the edges of the image are bright.



- 4K Real-time: Smooth 4K real-time images at 30 fps even when AI is enabled, with high brightness using F1.0 large aperture.



Normal 4K Non-Real-Time



Enhanced 4K Real-time



### Easy Operation

- Alarm-in Port: Allows alarm receiving or one-tap disarming through the alarm system interface.
- One-tap Disarming: Turns on/off the warning light and siren via the DMSS or alarm-in port.
- Alarm Sounds: Offers 11 built-in sounds and supports importing of custom voice audio for different scenarios.



Store: "Welcome"



Dangerous Place: "No Entry"



Fire Exits: "No Parking"



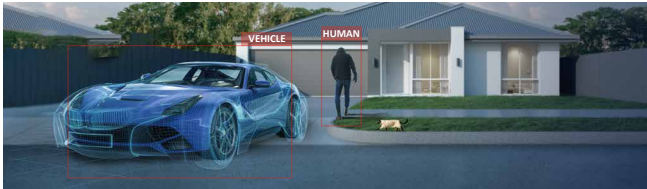
Construction Sites: "Keep Out"





AI Features

SMD 3.0



Perimeter Protection



Simple Configuration

SMD 3.0 is enabled by default



Longer Detection Distance

Detection distance is increased by as much as 50% compared with SMD Plus



Higher Detection Accuracy

Maximum detection accuracy for human and vehicle targets can reach up to 99%.



Reduced False Alarms

False alarm rate: <1%



Accurate Detection

False alarm rate: <1%



Target Classification

Focuses on human and vehicle targets



Quick Target Search

Target search efficiency is increased by 98%



Remote Monitor

Alarm push notification sending time: <1s

Auto Tracking 3.0 (PTZ)

Smooth Tracking Process

Combined with PFA 3.0 algorithm (a deep fusion of intelligent algorithms and focusing algorithms), it realizes touchless focusing during the tracking and capturing process.



PFA 2.0

VS



PFA 3.0

Long Tracking Distance

With the Automatic Tracking 2.0 algorithm as its foundation, the requirements on the tracking size of the target are further reduced, making the target size smaller and the tracking distance longer. The tracking distance of Automatic Tracking 3.0 can reach up to 870 meters.



Human Tracking Distance:

3.0: 220m

2.0: 170m



Vehicle Tracking Distance:

3.0: 870m

2.0: 630m



## Applications



### Private Places

- Less Light Pollution: Less use of white light means less light pollution
- Active Deterrence: Warn off intruders during the intrusion
- Color Monitoring: Presents color alarm videos
- Scenarios: Villas, shops, warehouses, etc.

### Public Areas

- Active Deterrence: Customized sounds and light alarm to warn the target in the area
- Accurate Detection: Focuses on human and vehicle targets to accurately identify real targets
- Ecosystem: One-tap disarming with alarm-in port or DMSS.  
Scenarios: Fire exits, emergency exits, etc.



## Recommended Models

### IP Camera



4MP/5MP/8MP Eyeball  
DH-IPC-HDW3449H-AS-PV-S3  
DH-IPC-HDW3549H-AS-PV-S3  
DH-IPC-HDW3849H-AS-PV-S3



4MP/5MP/8MP Bullet  
DH-IPC-HFW3449T1-AS-PV-S3  
DH-IPC-HFW3549T1-AS-PV-S3  
DH-IPC-HFW3849T1-AS-PV-S3

- 0.0003 lux@F1.0
- 120 dB WDR
- Smart H.265+/H.264+
- White light + IR light
- Built-in Mic/Speaker
- Focal Length: 2.8mm; 3.6mm
- 1/1 Alarm in/out, 1/1 Audio in/out
- Siren and light alarm (red and blue lights)

### PTZ Camera



4MP PTZ Camera  
DH-SD6C3425XB-HNR-A-PV1

- Powerful 25x optical zoom
- 150m IR Distance
- 120 dB WDR
- Smart H.265+/H.264+
- White light + IR light
- Built-in Speaker
- Siren and light alarm (red and blue lights)
- Face Detection



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