

Full-colour Active Deterrence AI Solution **TiOC**

Full-colour 24/7 Monitoring & Surveillance



**3-in-1
Solution**
Powerful
industry-leading
technology



**Full-colour
Monitoring**
Enhanced **24/7**
full-colour
performance



**Active
Deterrence**
Warn off intruders with
enhanced two-way audio
and red/blue light



**Artificial
Intelligence**
False alarm rate **<2%** &
target search efficiency
improved by **98%**



**AI
Coding**
Save disk space with
90% lower bitrate
than H.264

Overview

Currently available in 2MP and 5MP variations, this new **industry-leading TiOC (3-in-1)** camera offers Full-colour, Active Deterrence and AI, all-in-one smart innovative solution. With false alarm rates less than **2%**, a significantly improved search function and built in AI coding delivering a **90%** reduction in disk space required this new addition to Dahua's range can help improve the efficiency and cost of running your CCTV system.

Solution

Video evidence is greatly enhanced by full-colour images of any suspect. The combination of Dahua's industry-leading Full-Colour technology with powerful AI functions and Active Deterrence warnings will help reduce false alarm rates, improve target search efficiency and generally make your CCTV system more efficient, reducing your operation costs.



3-in-1 Solution – Powerful **industry-leading** technology



Full-colour Monitoring – Enhanced **24/7** full-colour performance



Active Deterrence – Warn off intruders with **enhanced two-way audio** and red/blue light



Artificial Intelligence – False alarm rate **<2%** & target search efficiency improved by **98%**



AI Coding – Save disk space with **90%** lower bitrate than H.264



3-in-1 Camera

Dahua, an **industry-pioneer** of smart surveillance devices, is the first to market with this powerful **3-in-1** solution.

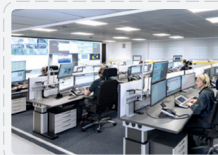
This proactive system features a bright LED light, warning siren and built-in speakers to warn off intruders, all of which can be remotely triggered before any crime has been committed.

- ✓ **2MP/5MP** resolution (8MP coming soon)
- ✓ Illumination Distance: **20m (2.8mm)/30m (3.6mm)/40m (6mm)**
- ✓ **11** different voices built-in by default or full voice customisation
- ✓ **Red & blue lights** emit a strong warning signal



No Colour Detail

After a burglary has occurred, although there is CCTV evidence, there's no colour image of the suspect, making identification more difficult.



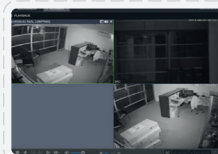
Too Many False Alarms

Too many false alarms cause meaningless work for the alarm receiving centre. Sometimes only 50 genuine positives out of 3000 alarms.



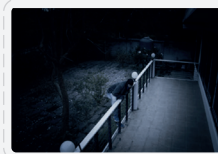
Storage Costs Too High

CCTV evidence must be stored for a minimum of 3 months (e.g. for banks, etc.) Hardware, including HDDs and recorders is prohibitively high.



Low-Efficiency Video Search

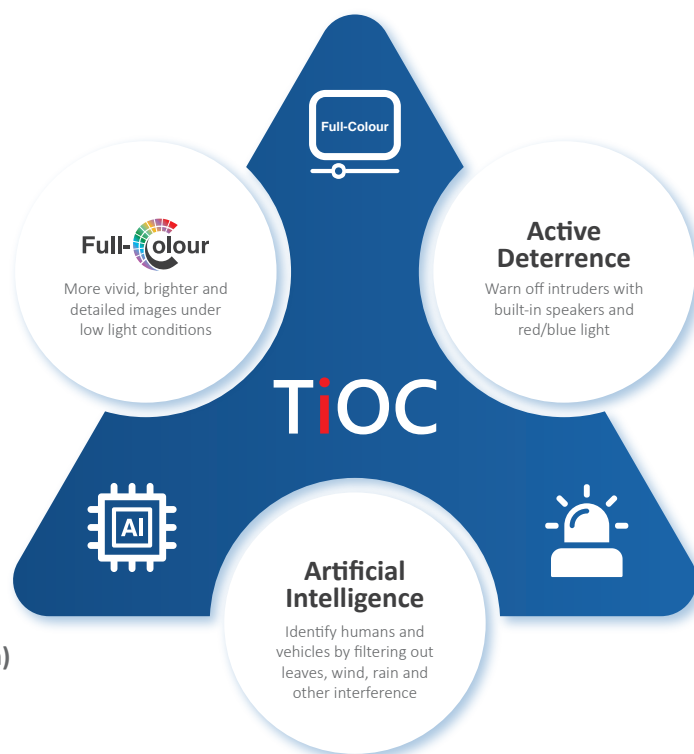
Large volumes of video data has to be manually examined by the police or control room, taking up a huge amount of time.



Response Time Too Slow

For warehouses with extensive perimeters, stopping intruders from breaking in is difficult even with security guards patrolling or a CCTV system.

Customer Challenges

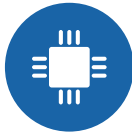




Full-colour



Large Aperture Lens
Max. aperture **F1.0**
2.5 times the amount of
light compared with F1.6



High Performance Sensor
30% photosensitive
capacity increase



Advanced ISP
Dahua **ISP 4.0**
technology



Warm Light
Radiance **40%** below
the EU standards



Active Deterrence

Red and Blue Light

- ✓ Noticeable even in dense fog and heavy rain.
- ✓ More eye-catching in daytime than white light.

Enhanced Speaker

- ✓ >110 dB speaker.
- ✓ Deeper voice with lower frequency sound.



AI | Artificial Intelligence



SMD 2.0

Smart Motion Detection 2.0
SMD 2.0 detection distance
increased by more than **185%**.
False alarm rate is the same as
daytime, less than **2%**.



Perimeter Protection

Perimeter Protection
Filters out leaves, light and other
interference. False alarm rate is
the same as daytime, less than **2%**.



AI Search

AI Search
Based on human and vehicle
classification, target search
efficiency improved by **98%**.



AI Coding

AI Coding
AI coding dynamically allocates bit
rate, providing clear target images
while saving more than **90%** bitrate
compared with H.264.



Increased detection distances help reduce false alarms.

H.264 Encoding

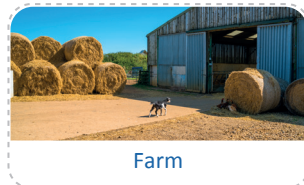
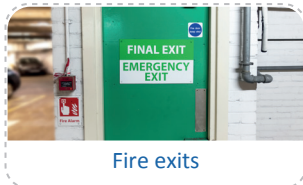


AI Coding



B: Background T: Target

Example Applications



Advantages

Colour Monitoring: Displays colour alarm videos and captures vivid detail in low light conditions.

Fewer False Alarms: The inbuilt AI function focuses on vehicles and humans reducing the number of false alarms.

Active Deterrence: Red and blue light and upgraded audio enhances deterrence.

APP Alarm Push: Push alarm notifications in real-time, with one-button arming and disarming.

System Topology



Recommended Products



IPC-HFW3549T1-AS-PV IPC-HFW3249T1-AS-PV

5MP/2MP resolution (8MP coming soon)
Built-in warm illuminator, illumination distance: 20m (2.8mm), 30m (3.6mm)
Built-in Mic and speaker
11 pre-recorded announcements or customised recording
Red & Blue LED's as a powerful warning signal
SMD, Perimeter Protection



IPC-HDW3549H-AS-PV IPC-HDW3249H-AS-PV

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Built-in Mic and speaker
11 pre-recorded announcements or customised recording
Red & Blue LED's as a powerful warning signal
SMD, Perimeter Protection



NVR4000-I series

Decoding capability: 2-ch 8MP@30fps, 8-ch 1080P@30fps
Up to 4-ch Perimeter Protection
Up to 2-ch video stream Face Recognition
8-ch picture stream Face Recognition (with FD camera)
Up to 12 face pictures/sec processing
Up to 10 face databases with 20,000 face images in total
1-8 PoE Ports support ePoE and EoC



NVR2000-I series

Decoding capability: 1-ch 8MP@30fps, 4-ch 1080P@30fps
Up to 2-ch perimeter protection
Up to 4-ch SMD, or all channel SMD by camera
Up to 1-ch video stream Face Recognition
8-ch picture stream Face Recognition (with FD camera)
Up to 10 face databases with 5,000 face images in total

Design and specifications are subject to change without notice.

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