

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%



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

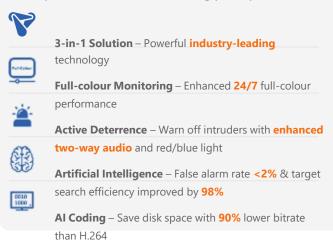


Overview

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 signficantly 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-1Camera

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 occu

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 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

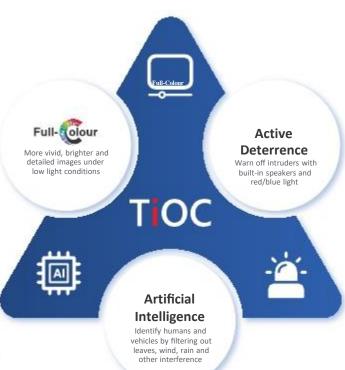
Large volumes of video data has to be manually examined by the police or control room, taking up a huge amount of time.



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



ActiveDeterrence



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.





3_m



5_m











Al|ArtificialIntelligence



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

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



AI Search

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



AI Coding

Al 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.





B: Background T: Target



ExampleApplications





Fire exits



Houses/Apartments



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.

SystemTopology



DSS Express



AI NVR NVR5000-I Series NVR4000-I Series



Full-colour + Active Deterrence + AI IPC IPC-3X49-PV Series 4/8MP

RecommendedProducts



IPC-HFW3449T1-AS-PV IPC-HFW3849T1-AS-PV

4MP/8MP resolution

Built-in warm illuminator, illumination distance: 20m (2.8mm), 30m (3.6mm) Built-in Mic and speaker

DMSS APP

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



IPC-HDW3449H-AS-PV IPC-HDW3849H-AS-PV

4MP/8MP resolution

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



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

Design and speci cations are subject to change without notice.

NVR5000-I series

Decoding capability: 4-ch 8MP@30fps, 16-ch 1080P@30fps Up to 16-ch Perimeter Protection Up to 4-ch video stream Face Recognition

16-ch picture stream Face Recognition (with FD camera)

Up to 24 face pictures /sec processing

Up to 20 face databases with 100,000 face images in total 1-8 PoE Ports support ePoE and EoC

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