HDCVI 6.0 PLUS

Leading the over-coax AI evolution
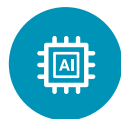
Real 5MP | **Super Adapt** | **4K Real-time** | **Enhanced AI** | **AI Coding** | **TiOC**

Overview

The past years have witnessed Dahua continuously enhance its technology leadership in the HDCVI community through its state of the art performance in terms of resolution, intelligence and usability. This year, with the foundation of HDCVI 6.0 technology, Dahua unveils HDCVI 6.0 PLUS with new Real 5MP and Super Adapt technology.

This brand new technology provides a superior visual experience through its 4K real-time and Real 5MP solution and AI coding while maintaining the same HDD storage. The Super Adapt technology ensures the camera always presents preferable image performance. The TiOC solution realizes accurate alarm for real targets and effective deterrence of intruders. In addition, HDCVI with enhanced AI can identify humans and vehicles in a video, alerting users with accurate alarms and enabling quick search using human and vehicle target types.

HDCVI is bringing fresh ideas and new possibilities to the industry, and will always provide more economical, safer and more convenient solutions to customers.

HDCVI 6.0 PLUS

Real 5MP

• Real 5MP is a unique and leading technology in HD-Over-Coax market.
• 16:9 aspect ratio better fits common HD displays and achieves undistorted 5MP image performance.
• 5MP high definition and large FOV guarantee monitoring reliability in critical areas.
• 5MP@25fps output provides more fluent visual experience and better restoration of monitoring scene.
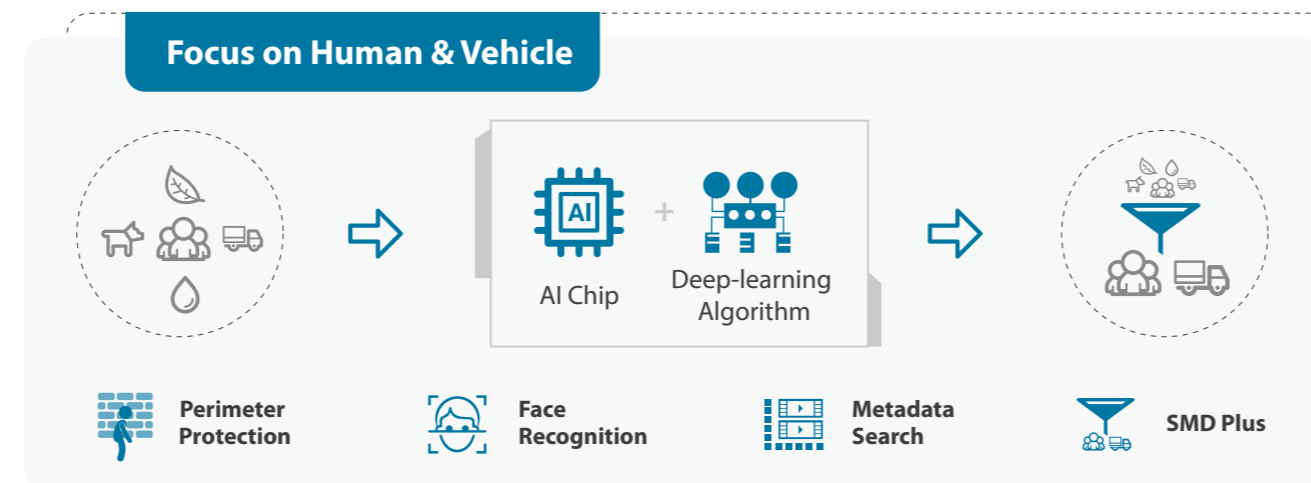
Real 5MP **16:9**   Previous 5MP 4:3

Enhanced AI

What is Enhanced AI?
• Adopting independent AI chip with up to 4T computing power and advanced deep-learning algorithm, HDCVI enables precise recognition of human, motor vehicle and non-motor vehicle.
• Enhanced AI supports face recognition, perimeter protection, metadata, SMD Plus and other intelligent functions that can be used for potential risk prevention, real-time event alarm, and quick inquiry.
• In 2021, the entry-level Cooper-I series was released, making AI accessible to everyone. Furthermore, the entire XVR series has been upgraded with AI capabilties.

Focus on Human & Vehicle

AI Chip   +   Deep-learning Algorithm

Perimeter Protection   Face Recognition   Metadata Search   SMD Plus

Super Adapt

• The Super Adapt camera can recognize and adjust to various monitoring environments such as indoor, outdoor and other scenarios with intense lighting, providing excellent image performance.
• No more manual camera debugging work is required, greatly saving costs for installers.

Without Super Adapt   With Super Adapt

Benefits
Compared with traditional video surveillance, HDCVI AI classifies human and vehicle in an image, making it easy for users to focus on real threats, enhancing target search efficiency, and significantly reducing labor costs.

In addition, Dahua provides a complete end-to-end AI solution with 4K UHD and full-color camera to ensure high accuracy and to provide high management efficiency through unified DSS & DMSS.

1.
Precise identification of human face
Provides valuable business applications such as VIP recognition, blocklist alarm, access control, etc.

2.
Accurate alarm for human and vehicle
Filters false alarms caused by leaves, birds, lights, etc., avoiding unnecessary actions.

3.
Real-time alerts and linkage
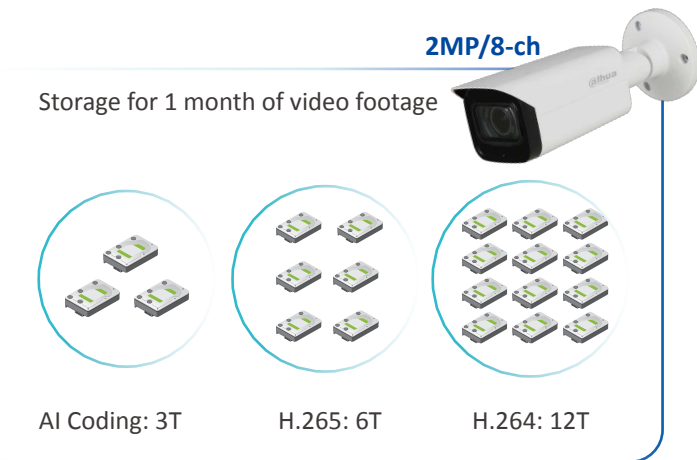Linkage of active deterrence camera can warn off intruders with built-in siren and white light.
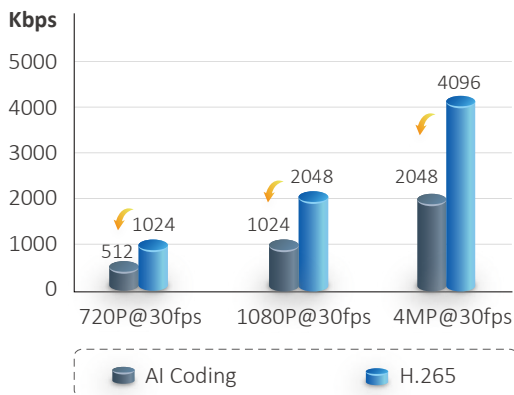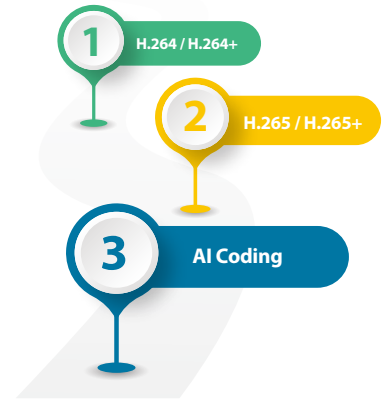
4.
Quick target search
Utilizes "AI search" feature to quickly search video footages of target people or vehicles.
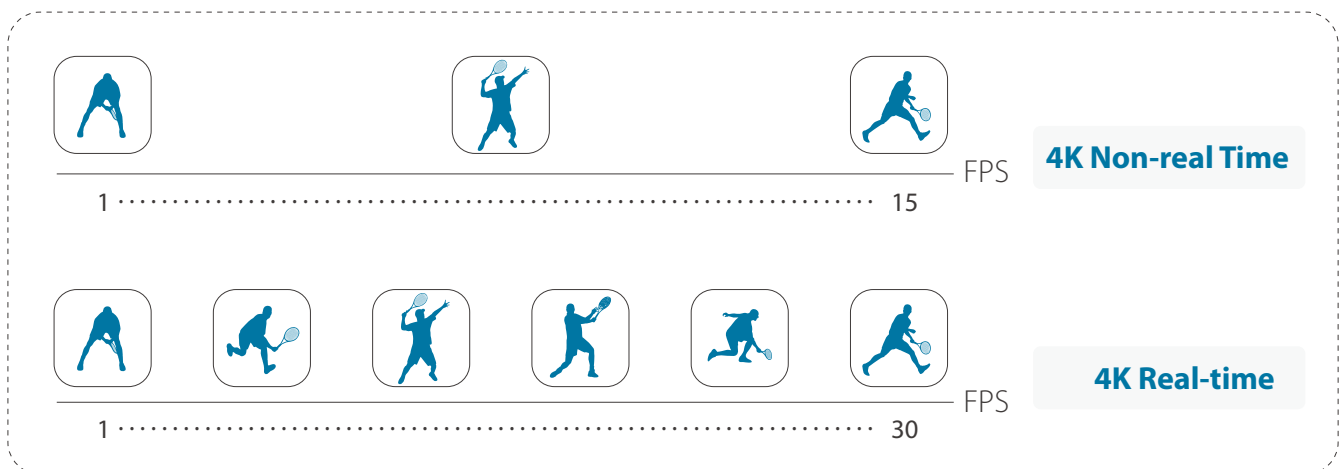
AI Coding

- Dahua AI takes video compression to a new level with context-aware encoding that can avoid noise and produce more detailed images.
- Saves 50% of the bandwidth and storage costs compared with H.265 while maintaining the target image quality.
- AI Coding based on CBR (Constant Bit Rate) ensures the compatibility and stability of both encoding and decoding.

1 H.264 / H.264+

2 H.265 / H.265+

3 AI Coding

Kbps

5000			
4000			4096
3000			
2000		2048	2048
1000	1024	1024	
	512		
0	720P@30fps	1080P@30fps	4MP@30fps

AI Coding   H.265

2MP/8-ch

Storage for 1 month of video footage

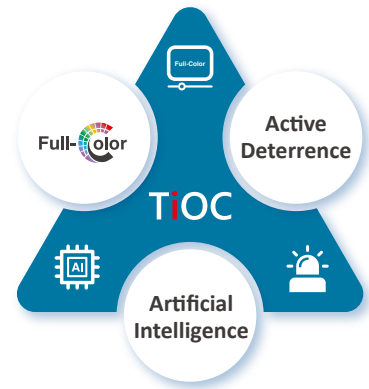AI Coding: 3T   H.265: 6T   H.264: 12T

4K Real-time

- 4K real-time is a unique and leading technology in HD-Over-Coax market.
- It restores the monitored scene with 30 fps for a better visual experience.
- Offers superior clarity in collecting even the tiny details within a large monitoring coverage.
- AI coding saves storage costs, allowing users to enjoy the advantages of upgrading to higher resolution while maintaining current storage expense.

FPS   **4K Non-real Time**

1 15

FPS   **4K Real-time**

1 30

TiOC

What is TiOC?

TiOC, known as Three-in-One Camera, integrates 24/7 full-color monitoring, active deterrence and AI into one smart, innovative solution, greatly saving time and financial costs for distributors and installers. In HDCVI system, all AI functions are realized by XVR. TiOC can accurately identify potential risks and effectively warn off intruders, actively protecting life and property's safety.
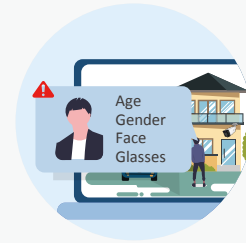

Working Principles of Dahua TiOC

Accurate Alarm

Timely Alert

Visual Verification

Benefits

Accurate Alarm
Accurately detects human/vehicle intrusion through Perimeter Protection/SMD Plus while filtering out false alarms.

Active Deterrence
Actively deters and warns off intruders with red & blue light and 110dB speaker, protecting people and their properties.

Full-color
24/7 colorful and HD monitoring increases the quality of video evidence and enhances the ability to identify suspects.

One-click Arming and Disarming
Allows turning on/off of warning light, siren and other prompts via the DMSS app with just a single click.

Customized Alarm Ringtone
Users can record their own voice based on different scenarios and upload it to the front-end cameras through DMSS.

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* Design and specifications are subject to change without notice.

DAHUA TECHNOLOGY
No.1199 Bin'an Road, Binjiang District, Hangzhou, China. 310053
Tel: +86-571-87688883   Fax: +86-571-87688815
Email: overseas@dahuatech.com
www.dahuasecurity.com