



# HDCVI 6.0

Leading HD-Over-Coax AI Evolution



4K Real-time  
· 25/30 fps@4K



Enhanced AI  
· False alarm rate<2%



AI Coding  
· 90% lower bit-rate  
than H.264



Two-way Talk  
· SNR≥20dB



Active Deterrence with PIR  
· 10m/110°detecting  
range/angle



PoC  
· Max Distance  
400m

## Overview

HDCVI 6.0 is introduced with industry's first 4K real-time and AI capabilities, providing superior 4K real-time image both in live view and playback while maintaining the same HDD storage. The two-way talk realizes real-time communication with a broadcast-quality audio. Moreover, this series will identify humans and vehicles in a video with an alarm alert sent.

### 4K Real-time

- 4K real-time ( **4K@25/30fps** ) is a unique and leading technology in HD-Over-Coax market.
- It restores monitoring location with 30 fps for a better visual experience.
- Offers superior clarity in collecting even 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 the current storage expense.



• 4K Real-time



• 4K Non-real time

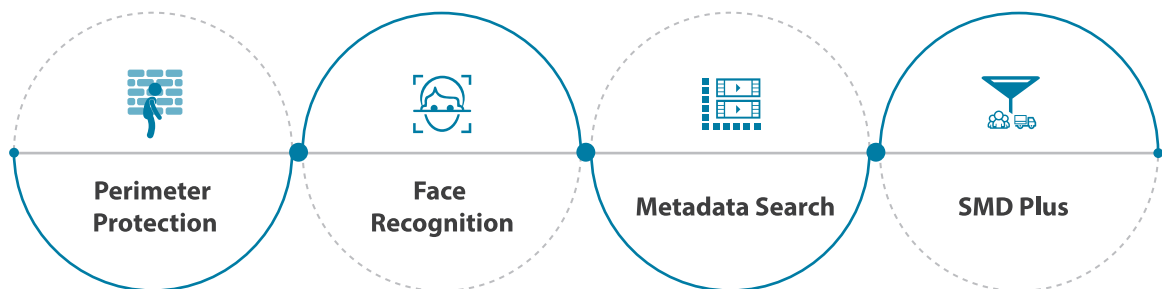
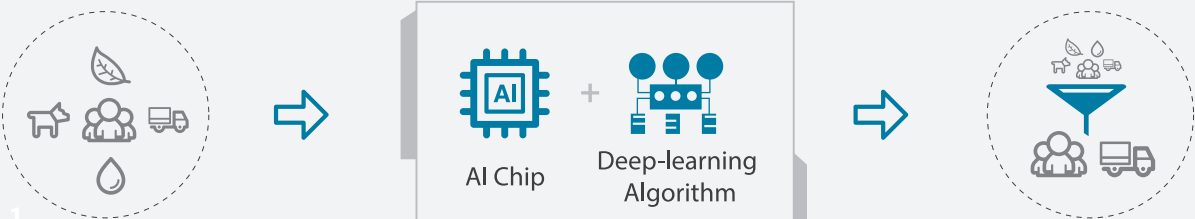


## Enhanced AI

### 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 etc. that can be used for potential risk prevention, real-time event alarm, and quick inquiry.

### Focus on Human & Vehicle



False alarm rate <2%

Face Recognition  
accuracy > 95%

9 human body attributes search  
8 car attributes search

False alarm rate <2%



## 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, blacklist alarm, access control etc.

2.



### Accurate alarm for human and vehicle

Filters false alarms caused by leaves, birds and 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.



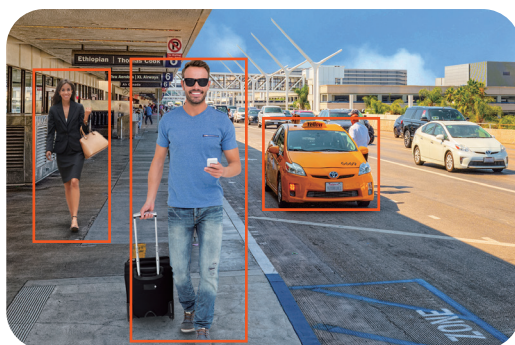
### Quick target search

Utilizes "AI search" feature to quickly search video footages of target people or vehicles.

## AI Coding: 90% lower bit-rate than H.264

- Dahua AI takes the video compression to a new level of content-aware encoding which can avoid noise and can produce a more detailed image.
- Automatically encodes with a target perceptual quality through recognition of moving human or vehicle, significantly improving the streaming quality compared with H.265+.
- Decreases the bandwidth when there is no real target in sight, allowing efficient handling of videos to save HDD storage cost.

### AI Coding Scheme



**Step1:** Recognizes moving person and vehicle

**Step2:** Automatically improves encoding efficiency with the same image quality



**Step1:** Analysis shows that there is no person or vehicle in the picture

**Step2:** Lowers the bandwidth when no real targets appear

1

H.264 / H.264+

2

H.265 / H.265+

3

AI Coding

## | Two-way Talk

- Two-way talk is a unique and leading technology in HD-Over-Coax market and a breakthrough innovation in Audio-Over-Coax technology.
- Aside from satisfying users' demand for auxiliary audio information, Two-way talk also enables bi-directional audio intercom that can be used to warn off intruders and to provide guidance when an accident occurs.
- Advanced audio noise reduction technology provides "broadcast level" audio quality (**SNR  $\geq 20\text{dB}$** ), providing users with a multi-dimensional and high quality video surveillance solution.



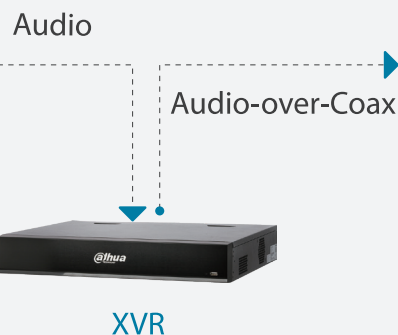
### HDCVI 6.0 Two-way Talk



### Two-way Talk Application



User gets intrusion alarm, then warns the intruder via DSS & DMSS



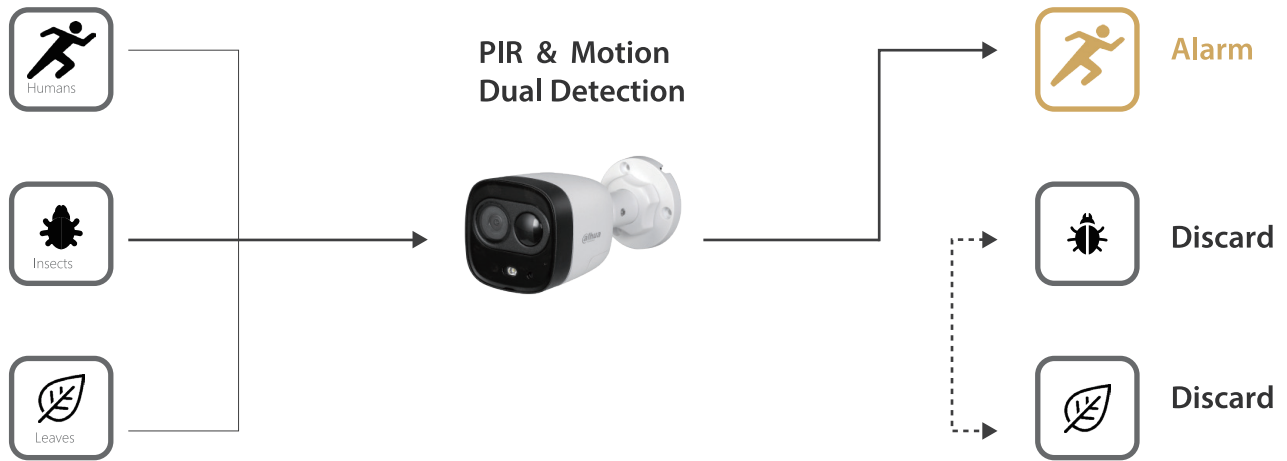
### HDCVI Camera



HDCVI camera broadcasts the audio to warn off the intruder

## I Active Deterrence with PIR

- PIR & Motion Dual Detection accurately detects human intrusion and filters out false alarms, saving storage space for motion-triggered recordings and avoiding overreactions.

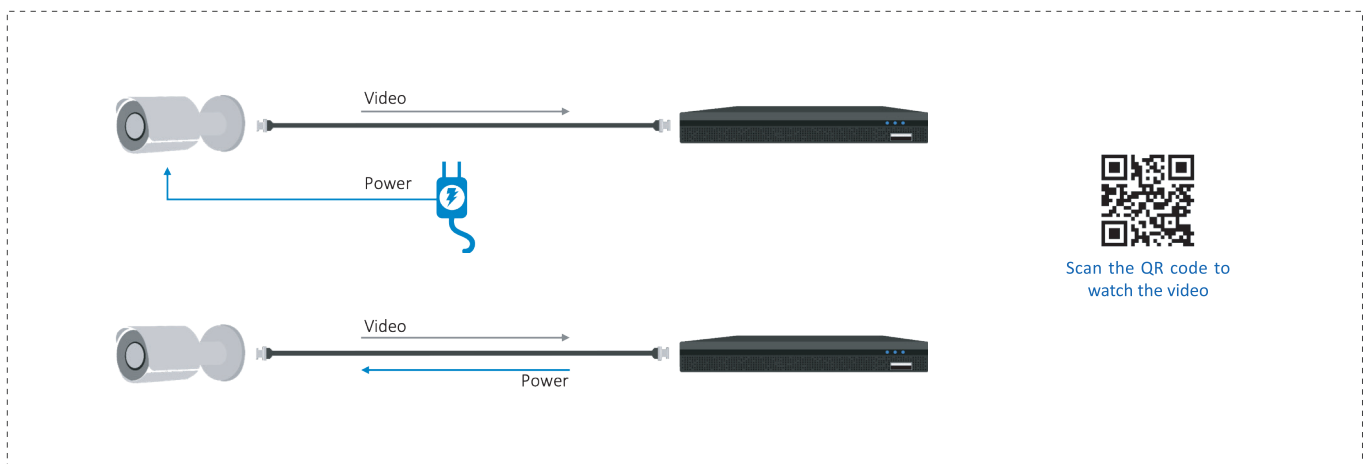


## I PoC

- PoC, short term for Power over Coax, transmits both video and electrical power over a single coaxial cable. By eliminating separate camera power supplies, HDCVI POC technology further simplifies HDCVI system deployment, therefore reducing time and cost.

### Benefits:

- Saves up to **30%** on system deployment costs and enhances power stability.



- It can support maximum of **400m** transmission distance.

# HDCVI 6.0 Product Family

- HDCVI Cameras

4K



4K real-time fixed lens

HAC-HFW1800T(-A)

4K real-time fixed lens

HAC-HDW1800TL(-A)





4K motorized lens

HAC-HFW1801R-Z-IRE6-A

4K motorized lens

HAC-HDW1801T-Z-A

5MP



5MP fixed lens

HAC-HFW1500T(-A)

5MP fixed lens

HAC-HDW1500TL(-A)





5MP motorized lens

HAC-HFW1500R-Z-IRE6-A

5MP motorized lens

HAC-HDW1500T-Z-A

PoC



5MP PoC fixed lens

HAC-HFW1500T-A-POC

5MP PoC fixed lens

HAC-HDW1500EM-A-POC

5MP PoC motorized lens

HAC-HFW1500R-Z-IRE6-POC

5MP PoC motorized lens

HAC-HDW1500T-Z-A-POC

Active Deterrence



PIR + White light+ Siren

HAC-ME1500D

PIR + White light

HAC-ME1500E-LED

- HDCVI Recorder

#### 4K



##### 1 HDD

4-ch: XVR7104HE-4K-I2  
8-ch: XVR7108HE-4K-I2



##### 2 HDDs

16-ch: XVR7216A-4K-I2



##### 4 HDDs

16-ch: XVR7416L-4K-I2

#### 4K Lite/5MP



##### 1 HDD

4-ch: XVR5104HS-4KL-I2  
8-ch: XVR5108HS-4KL-I2



##### 2 HDDs

16-ch: XVR5216AN-4KL-I2  
32-ch: XVR5232AN-4KL-I2



##### 4 HDDs

16-ch: XVR5416L-4KL-I2  
32-ch: XVR5432L-4KL-I2

#### 5MP Lite/1080P



##### 1 HDD

4-ch: XVR5104HS-I2  
8-ch: XVR5108HS-I2



##### 2 HDDs

16-ch: XVR5216AN-I2  
32-ch: XVR5232AN-I2

#### PoC



##### 5MP Lite/1080P, 1 HDD

4-ch: XVR5104H-X-4P  
8-ch: XVR5108H-X-8P



##### 5MP Lite/1080P, 2 HDDs

16-ch: XVR5216AN-X-16



##### 4K Lite/5MP, 1 HDD

8-ch: XVR5108H-4KL-X-8P



##### 4K Lite/5MP, 2 HDDs

16-ch: XVR5216AN-4KL-X-16P

\* Design and specifications are subject to change without notice.

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