WizSense

Focus on human and vehicle

Intelligent Simple Inclusive

Overview

According to relevant academic reports, people watching a single video monitor for more than twenty minutes lose 95% of their ability to maintain focus and attention that are needed to discern significant events. In addition, the security industry reports show that over 98% of generated alarms are false. Limitations in the ability of humans to vigilantly monitor video surveillance's live footage paved way to the demand for artificial intelligence that could efficiently perform such task.

To solve these problems, Dahua released WizSense to ensure your personal safety and property.
Let's see how WizSense works!

What is WizSense

Launched by Dahua Technology, WizSense is a series of wide range AI products and solutions that adopt independent AI chip and deep learning algorithm. It can recognize human and vehicle in an image with high accuracy, enabling users to focus on real targets. Based on Dahua's advanced technology, WizSense makes your video intelligent, simple and inclusive.

Intelligent

Powered by AI chip and deep learning algorithm, WizSense provides various features that realizes accurate alarms for human and vehicle, and quick target search, maximizing resources to increase overall efficiency.
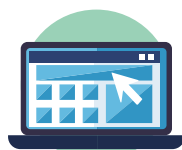
Simple

WizSense offers simple configuration, especially for SMD Plus and AI Coding enabled by default. It eases your customer's daily job and also empowers them to make better business decisions.

Inclusive

Inclusivity of WizSense is the idea that everyone gets the opportunities and benefits from AI. With affordable prices and easy configuration of Dahua WizSense, AI is no longer confined to an ivory tower, but applied to real scenarios instead.

Empowered by deep learning, WizSense provides full protection for customers' property and improves working efficiency before, during and after an event happens.

User Benefits

Instant deterrence during an event
Alarm pushing time <**1s**

Storage saving while ensuring target details
Bandwidth saving >**50%**

Accurate prediction before an event
False alarm rate <**1%**

Quick target search after an event
Target search efficiency ↑ **98%**

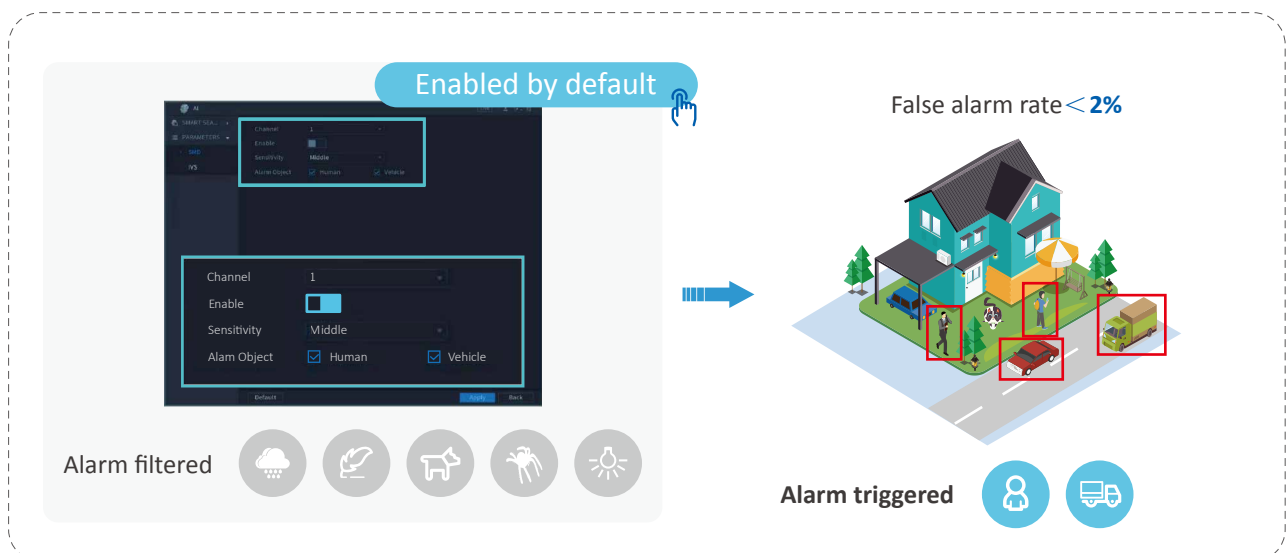Privacy protection and defense against attacks
TUV certified

• Accurate Prediction before Events

Different from the traditional CCTV system, WizSense can effectively transfer "post-evidence" to "pre-warning" through accurate prediction before events.
WizSense technology includes SMD Plus, Perimeter Protection, and Face Recognition that can extract human and vehicle information from massive data, significantly reducing false alarms caused by non-target objects.
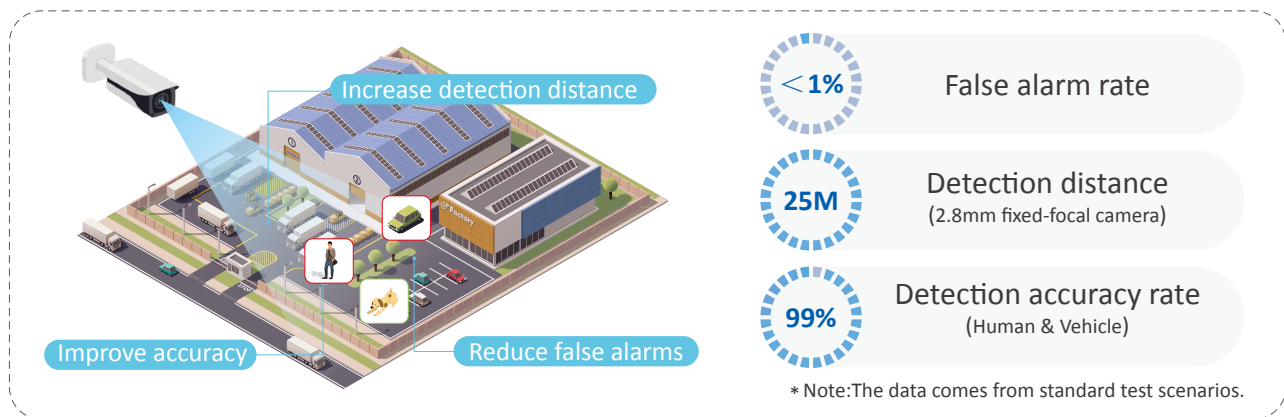
SMD PLus
SMD Plus analyzes human and vehicle shapes based on motion detection through adoption of deep learning algorithm, allowing users to focus on real threats.

Enabled by default

False alarm rate <**2%**

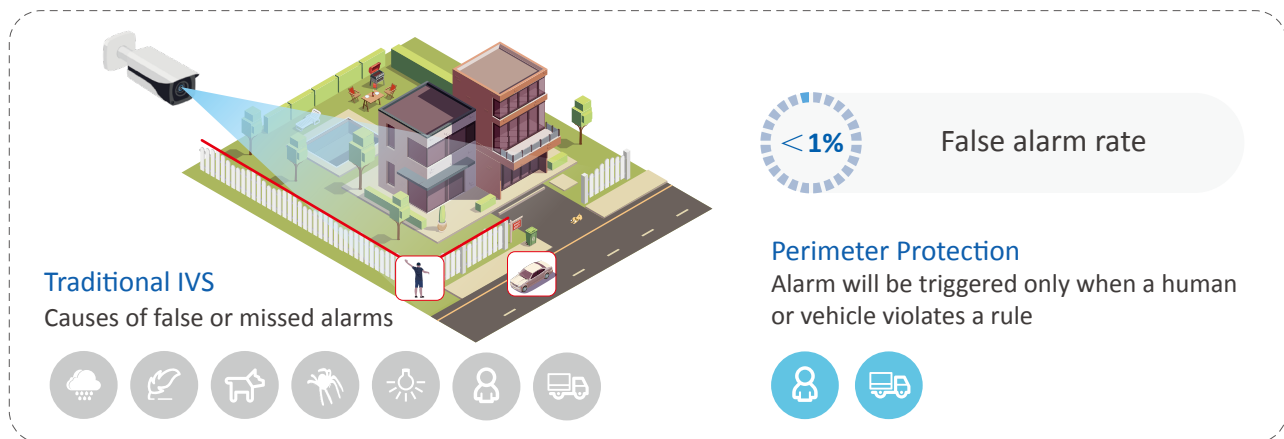| Channel | 1 |
Enable	
Sensitivity	Middle
Alam Object	☑ Human ☑ Vehicle

Alarm filtered

Alarm triggered

SMD 3.0

The original SMD Plus occasionally generates false alarms caused by animals such as dogs and cats. In addition, the detection distance is not long enough, which limits the detection range for targets. The IPC camera continues to upgrade the value of AI with the release of SMD3.0.

Increase detection distance

Improve accuracy

Reduce false alarms

< 1% False alarm rate

25M Detection distance
(2.8mm fixed-focal camera)

99% Detection accuracy rate
(Human & Vehicle)

＊Note:The data comes from standard test scenarios.

Perimeter Protection

The perimeter protection – based on tripwire and area intrusion – sends an alarm only when unwanted movements triggered by human or vehicle occur, saving users from unnecessary actions caused by false alarms.

Traditional IVS
Causes of false or missed alarms

< 1% False alarm rate

Perimeter Protection
Alarm will be triggered only when a human or vehicle violates a rule

Difference between Perimeter Protection and SMD (including SMD Plus and SMD 3.0):

	Perimeter Protection	SMD
Supported channels (For back-end intelligence)	Several channels	Up to Full channels
Configuration	Draw tripwire or intrusion rules	Enabled by default
Application Scenario	Applicable to specific area, especially where needs to detect direction	Whole scene by default

Face Detection

After identifying a human-type intrusion, WizSense helps users recognize human attributes via face recognition.
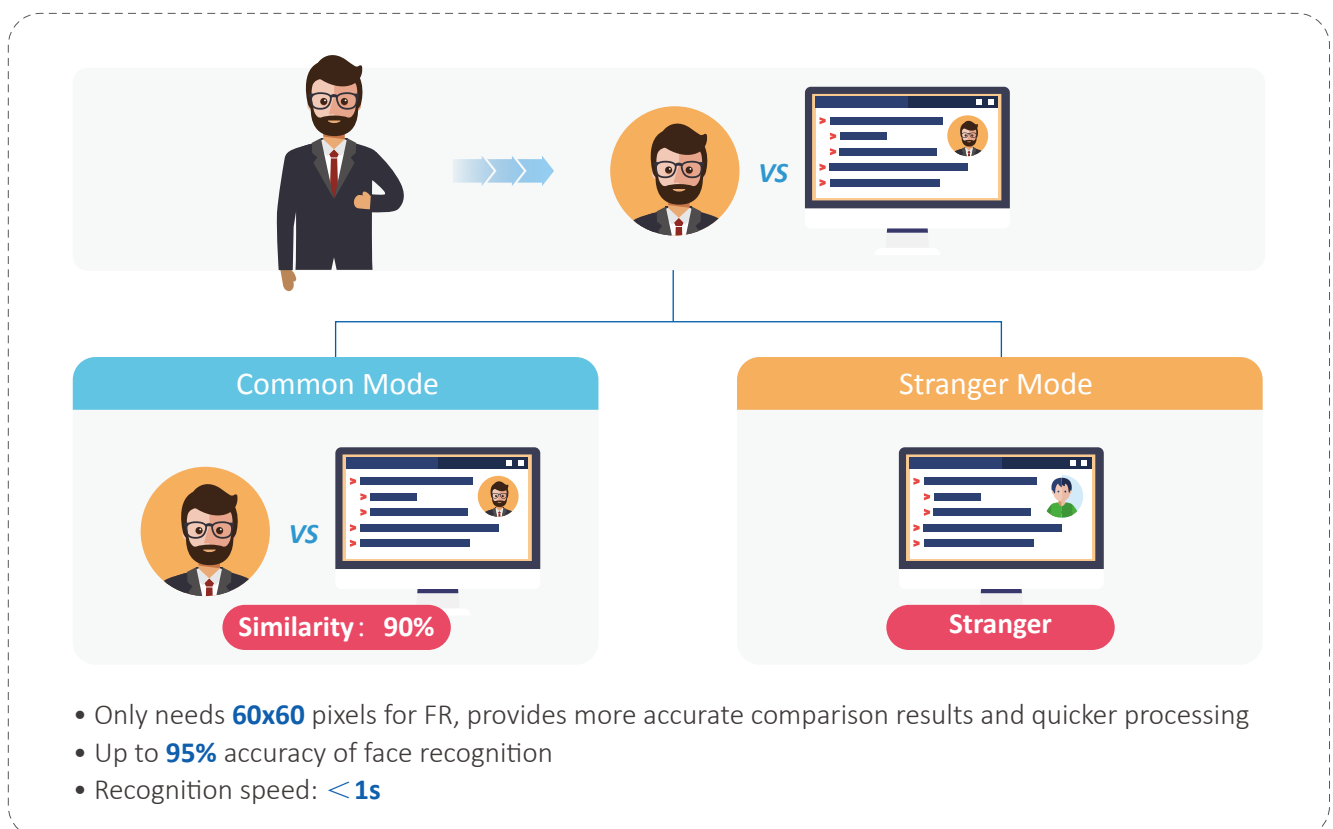
Face Attributes	
Gender	Female, Male
Age	Age value, Infant/Child/Young/Middle-aged/Elderly, Ten years for a period
Expression	Angry, Disgusted, Fear, Happy, Sad, Confused, Surprised, Calm
Glasses	Yes (Regular Glasses, Black Frame Glasses, Sunglasses, Others), No
Moustache/Beard	Yes（Beard, Moustache, Others), No
Mouth Mask	Yes, No

Gender: Male
Age: Youth
Expression: Calm
Glasses: No
Moustache: No
Mouth Mask: No

- Only needs **30x30 pixels** for FD, provides more accurate detection results and quicker processing
- Up to **98% accuracy** of face detection
- Supports up to **12 pics** of face attributes detection for single channel
- Supports up to **6 kinds** of face attributes

Face Recognition

By comparing detected face image with a customized face database, users can gain more business value through VIP recognition, blocklist alarm, stranger alarm, etc.

VS

Common Mode	Stranger Mode
VS	
Similarity：90%	**Stranger**

- Only needs **60x60** pixels for FR, provides more accurate comparison results and quicker processing
- Up to **95%** accuracy of face recognition
- Recognition speed: ＜**1s**

• Instant Response & Active Deterrence during an Event

Active Deterrence

Actively warns off intruders once they have been detected to significantly reduce the probability of any incident to happen.
Alerts users with a real-time push notification that shows trigger type (human or vehicle), and enables users to easily verify alarms through captured videos.

The red & blue light flashes and makes a warning sound to deter the intruder.

Users can talk to the intruder via DMSS.

02

DMSS   now
NVR
Channel 3
Motion Detection-Human
2019-12-30 11:39:03
Press for more

04

Built-in Mic
Built-in Siren

01

03

Video analysis shows there is a human (or vehicle) in the monitored scene.

Users instantly receive alerts on the DMSS APP.

Time Sharing Monitoring

The built-in light and speaker of the SD3A series PTZ camera has two uses: during day time, the PTZ camera actively monitors the main area; at night time, the PTZ camera turns to the entrance area. When the alarm is triggered, it will warn off intruders through its Active Deterrence function. Everything works based on time tasks.
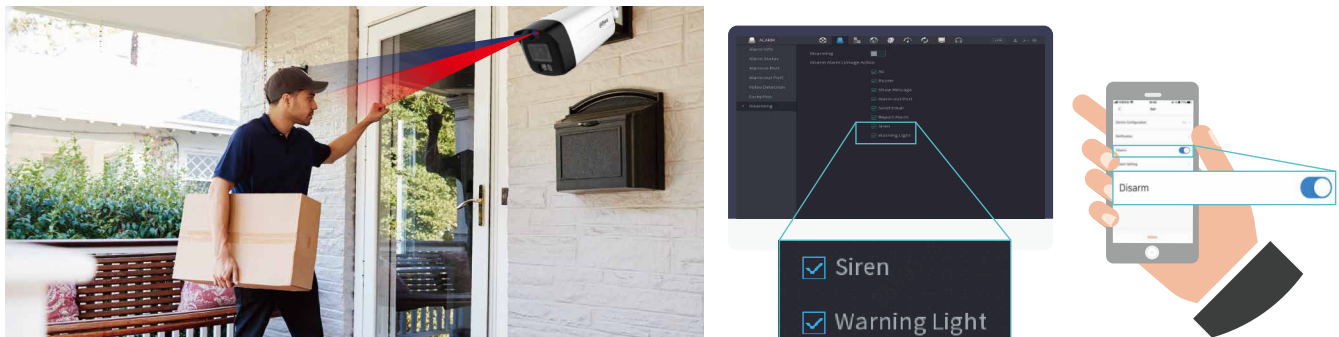
Two-way Talk& Customizable Alert Voice Audio

Ten-second custom voice audios can be recorded on mobile app, which can be used as greetings, reminders, etc. The camera also supports Two-way talk.

One Click Arming & Disarming

Newly-added disarm option for siren and warning light of the camera. Also, it can be achieved on DMSS which brings convenience for end-users.
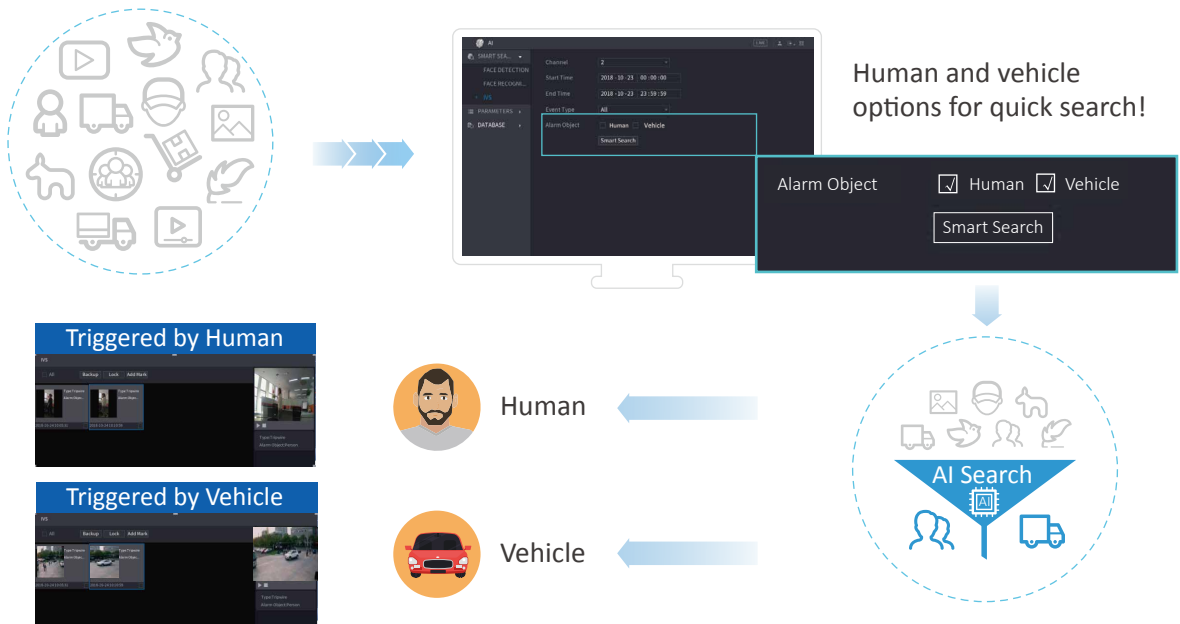

• Quick Target Search after an Event

98% Up to 98% enhancement of searching efficiency

Step1:
Choose Human / Vehicle target type

Step2:
Display target video, significantly saving searching time.

02 Perimeter Protection

Human and vehicle options for quick search!

Alarm Object   ☑ Human ☑ Vehicle

Smart Search

Triggered by Human

Triggered by Vehicle

Human

Vehicle

AI Search

03 Face Search

Find out when and where a person of interest has appeared in monitored scenes by image search.

Target Image
(6mm fixed-focal camera)

Modeling

Searching Target Video
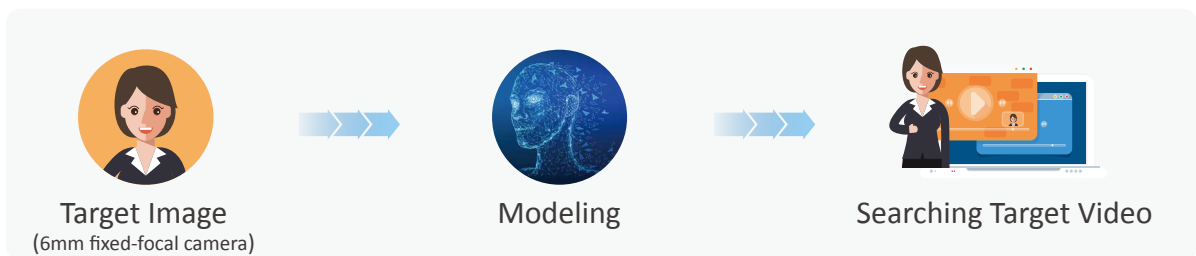
Effectively reduce the search scope through face attribute search.

End Time
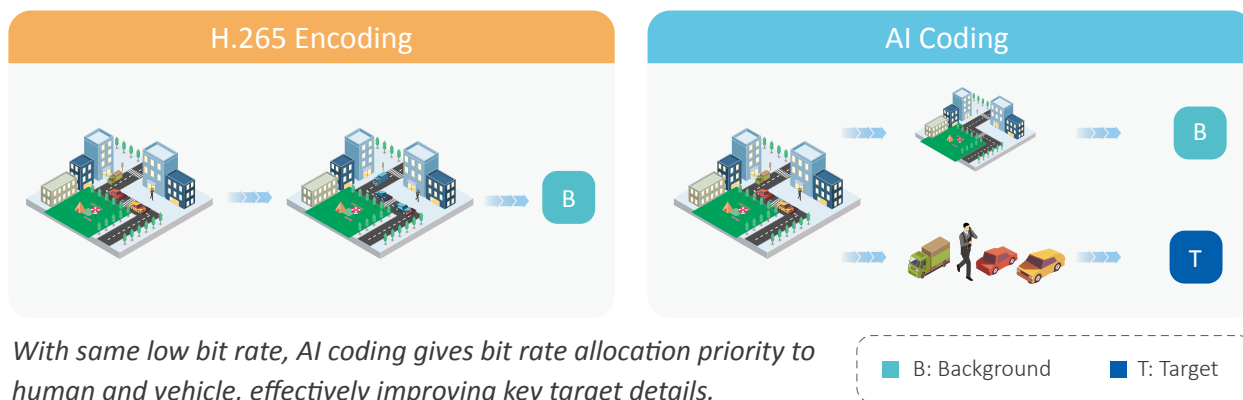
Gender

Age

Glasses

Beard

Mask

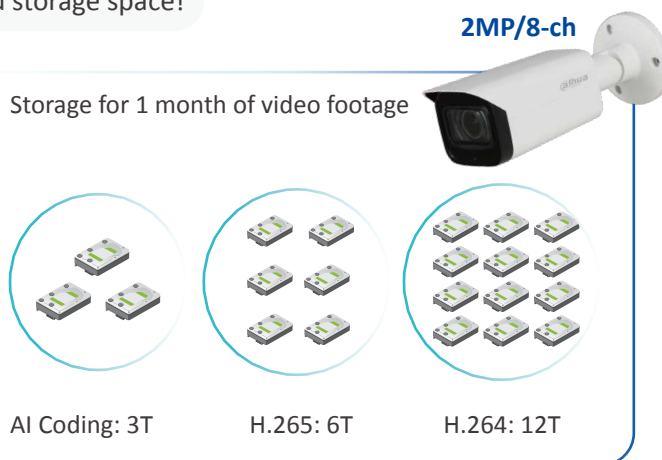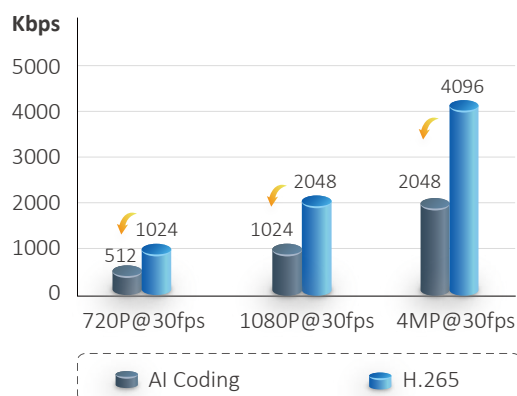- ## Storage Saving while Ensuring the Image Quality of Target

AI Coding

With the improvement of monitoring resolution, how to maintain image quality while saving storage cost has become one of the most concerning problems of users. Based on CBR (Constant Bit Rate), WizSense AI Coding dynamically allocate bit rate, providing clear target images while saving more than 50% bit rate compared with H.265.
AI Coding function is enabled by default in the newest firmware version.

| H.265 Encoding | AI Coding |

With same low bit rate, AI coding gives bit rate allocation priority to human and vehicle, effectively improving key target details.

B: Background   T: Target

50%   Saves more than 50% of bandwidth and storage space!

2MP/8-ch

Storage for 1 month of video footage

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

Through CBR (Constant Bit Rate), AI Coding does not lose its decoding compatibility when integrated with 3rd party players or platforms.

Camera → Recorder → Third Party Platform

Through CBR (Constant Bit Rate), AI Coding does not lose its decoding compatibility when integrated with 3rd party players or platforms.
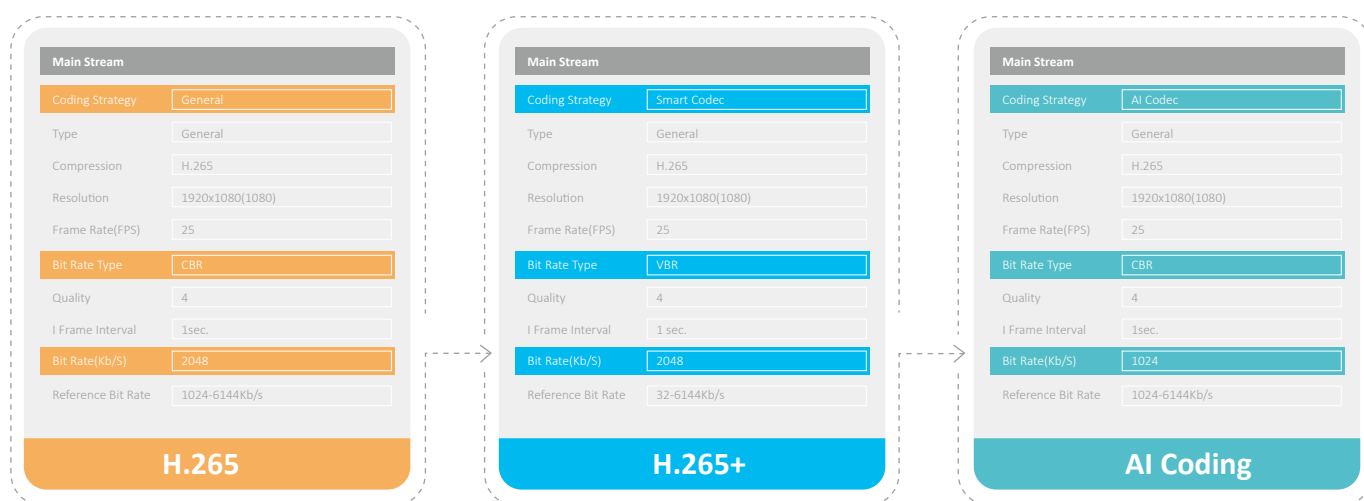
H.265+	AI Coding
Bit Rate	Bit Rate
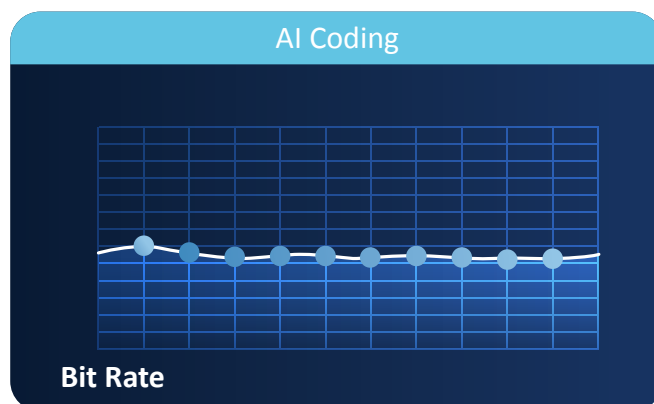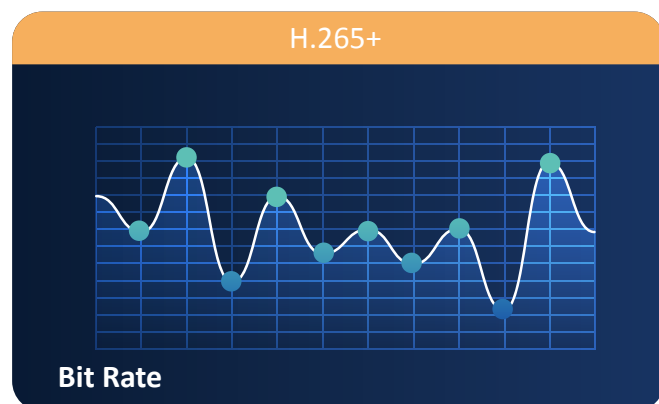
VBR (Variable Bit Rate) has high burstiness, which makes it difficult to calculate the required bandwidth.

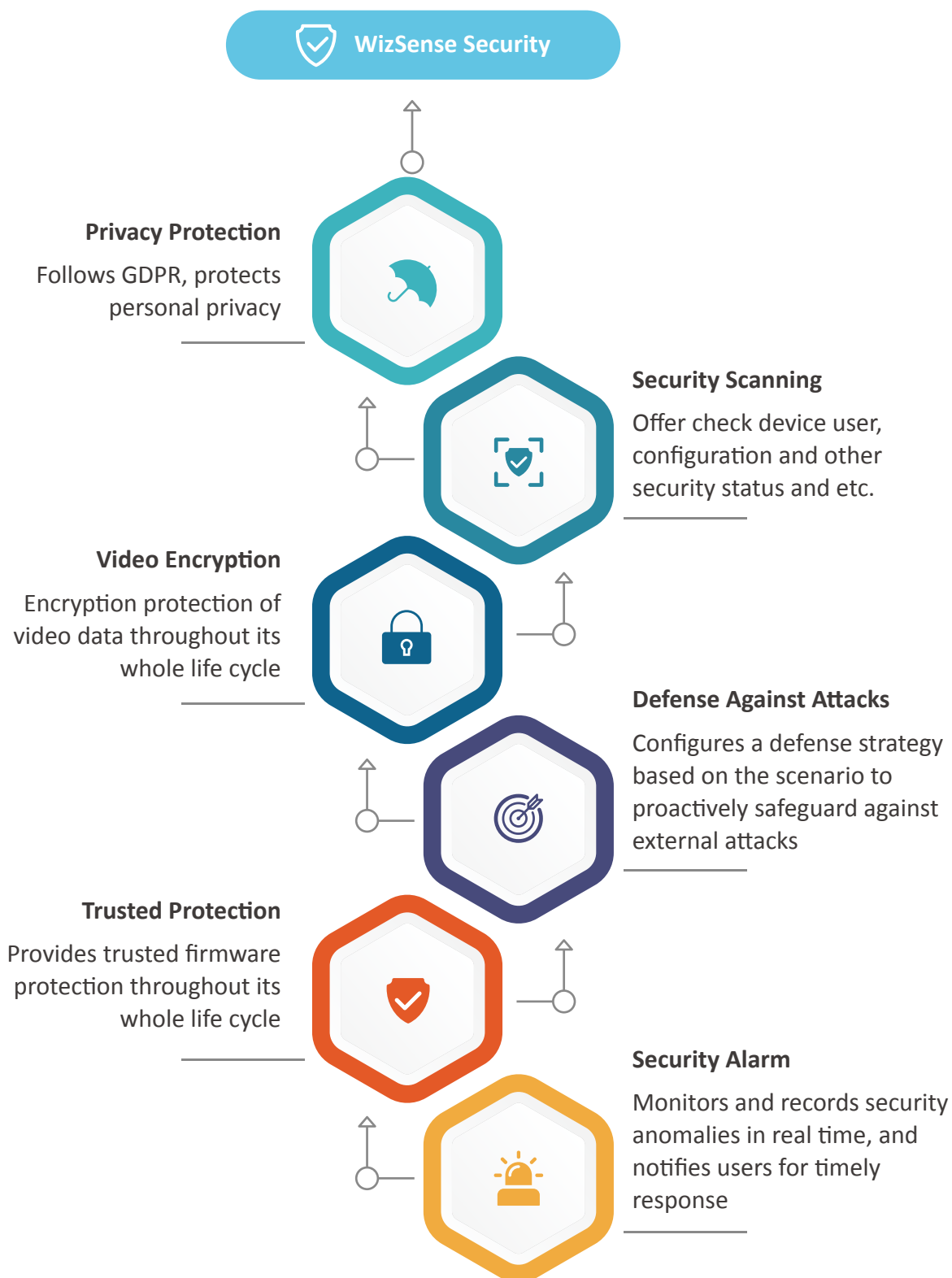Makes it easy to deploy bandwidth and improves bandwidth utilization.

Main Stream

Coding Strategy	General	
Type	General	
Compression	H.265	
Resolution	1920x1080(1080)	
Frame Rate(FPS)	25	
Bit Rate Type	CBR	
Quality	4	
I Frame Interval	1sec.	
Bit Rate(Kb/S)	2048	
Reference Bit Rate	1024-6144Kb/s	

H.265

Main Stream

Coding Strategy	Smart Codec	
Type	General	
Compression	H.265	
Resolution	1920x1080(1080)	
Frame Rate(FPS)	25	
Bit Rate Type	VBR	
Quality	4	
I Frame Interval	1 sec.	
Bit Rate(Kb/S)	2048	
Reference Bit Rate	32-6144Kb/s	

H.265+

Main Stream

Coding Strategy	AI Codec	
Type	General	
Compression	H.265	
Resolution	1920x1080(1080)	
Frame Rate(FPS)	25	
Bit Rate Type	CBR	
Quality	4	
I Frame Interval	1sec.	
Bit Rate(Kb/S)	1024	
Reference Bit Rate	1024-6144Kb/s	

AI Coding

	H.265	H.265+	AI Coding
Mode	CBR	VBR	CBR
Default Bit Rate (Kbps)	720P@30fps: 1024 1080P@30fps: 2048 4MP@30fps: 4096	720P@30fps: 1024 1080P@30fps: 2048 4MP@30fps: 4096	720P@30fps: 512 1080P@30fps: 1024 4MP@30fps: 2048
Advantages	Standard encoding method	Higher compression rate especially in wide area scenarios and static scenarios monitoring	Compared with VBR, CBR encoding method provides better stability and better compatibility with 3rd party platform. Saves 50% bandwidth and storage costs compared with standard H.265.

The abovementioned bit rate is based on XVR settings. In the analog system, the preview video is the original bit stream. The IP system video also needs to be encoded and decoded. Thus, the default bit rate of IPC only achieves 75% compared to H.265, ensuring excellent image quality.

• Protects Network Security and Prevents Privacy Disclosure

WizSense Security

Privacy Protection

Follows GDPR, protects personal privacy

Security Scanning

Offer check device user, configuration and other security status and etc.

Video Encryption

Encryption protection of video data throughout its whole life cycle

Defense Against Attacks

Configures a defense strategy based on the scenario to proactively safeguard against external attacks

Trusted Protection

Provides trusted firmware protection throughout its whole life cycle

Security Alarm

Monitors and records security anomalies in real time, and notifies users for timely response

Application Scenarios

Villa's Yard
WizSense effectively protects your property when you are away from home.

SMD

Perimeter Protection

Push Notification

Visual and Auditory Warning

Requirements

Have you ever received tons of false alarm notifications while you were away from home? Have you ever received an intrusion detection alarm, but unable to obtain the appearance of suspects? Let WizSense shield your home!

False Alarm Reduction
False alarm rate less than 1%, enables you enjoy your perfect vacation without worrying about your home's security.
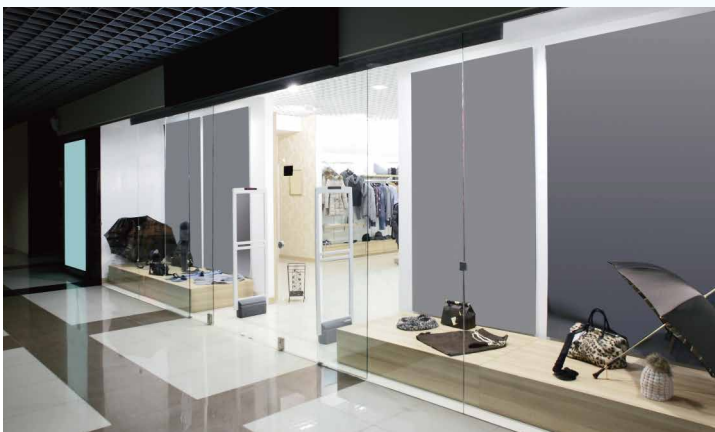
Notification Prompt via Smartphone
You will receive a mobile push notification when the alarm has been triggered.

Light and Sound Intruder Deterrence
The powerful visual and auditory warning can warn off intruders as soon as they are detected, protecting your properties at all times.

Luxury Shop's Entrance
Creates business value while enhancing security.

Face Recognition

Push Notification

Requirements

With a large trading volume everyday, luxury shops are constantly exposed to security threats. In addition, improving VIP customer experience and management efficiency has emerged as a major demand.

Assists VIP Service
WizSense can accurately identify VIP customers and push notifications to the shop manager via APP, improving management efficiency to enhance users' satisfaction.

Secures Shops
Once a person with previous criminal has been detected in our system, the WizSense products will quickly target him/her, and at the same time send an alarm to the security center.

Establishment's Monitoring Center
Improves the efficiency of monitoring center's security guard.

SMD

Quick target search

Requirements

With limited manpower that can focus on huge amount of details, 24/7 monitoring has been a pressing challenge to security guards.

Accurate Alarm
Wizsense filters out useless alarms caused by leaves, light, pets etc., saving users' time and effort.
Efficient Search
WizSense extracts and classifies humans and vehicles from massive video data, making it easy for end users to trace and analyze information. The human and vehicle options for video playback speeds up the target search and saves retrieval time.

Industrial Park Perimeter
Keeps people away from exclusion areas with flexible configuration.

Perimeter Protection

Visual and Auditory Warning

Thermal Imaging

Requirements

It is required to protect the perimeter security of the industrial park with accurate alarm.

Strong Adaptability
The thermal camera converts the thermal radiation into the visible image, which can be clearly imaged in the harsh environment, such as no-light, backlight, haze and so on.
Flexible Rules for Monitoring Area
Flexible rules can be set up depending on the structure of the fencing in order to prevent people from climbing over it.
Sound and Light Alert on Site
Once perimeter protection alarms are triggered, built-in LED and loudspeaker are activated to alert the intruder and avoid delays caused by central processing.

Fish Farm
Safeguard your outdoor properties and reduce labor costs.

SMD

Perimeter Protection

Customizable Alert VoiceAudio

Visual and Auditory Warning

Requirements

Help protect fish farms against thieves, poisoners or anglers without permission.

Wide Monitoring Area
The Active Deterrence PTZ camera can rotate horizontally and vertically to monitor different areas of the fish farm through preset position, bringing less labor costs and better scenario adaptability.

Sound and Light Alert on Site
When perimeter protection or SMD alarms are triggered, its built-in light will flash and its speaker will play a recorded voice audio to warn off intruders. Example: "Attention! Swimming and fishing are not allowed here! Please leave the premises immediately."

Convenience Store
Time-sharing monitoring to protect your shop 24/7.

SMD

Time-sharing Monitoring

Push Notification

Visual and Auditory Warning

Requirements

Monitor the cashier area during business hours, and the entrance during non-business hours using Active Deterrence PTZ Camera.

Time-sharing Monitoring
Supports presetting of camera position at cashier and shelves area during day time, preventing intruders and burglars from trespassing.
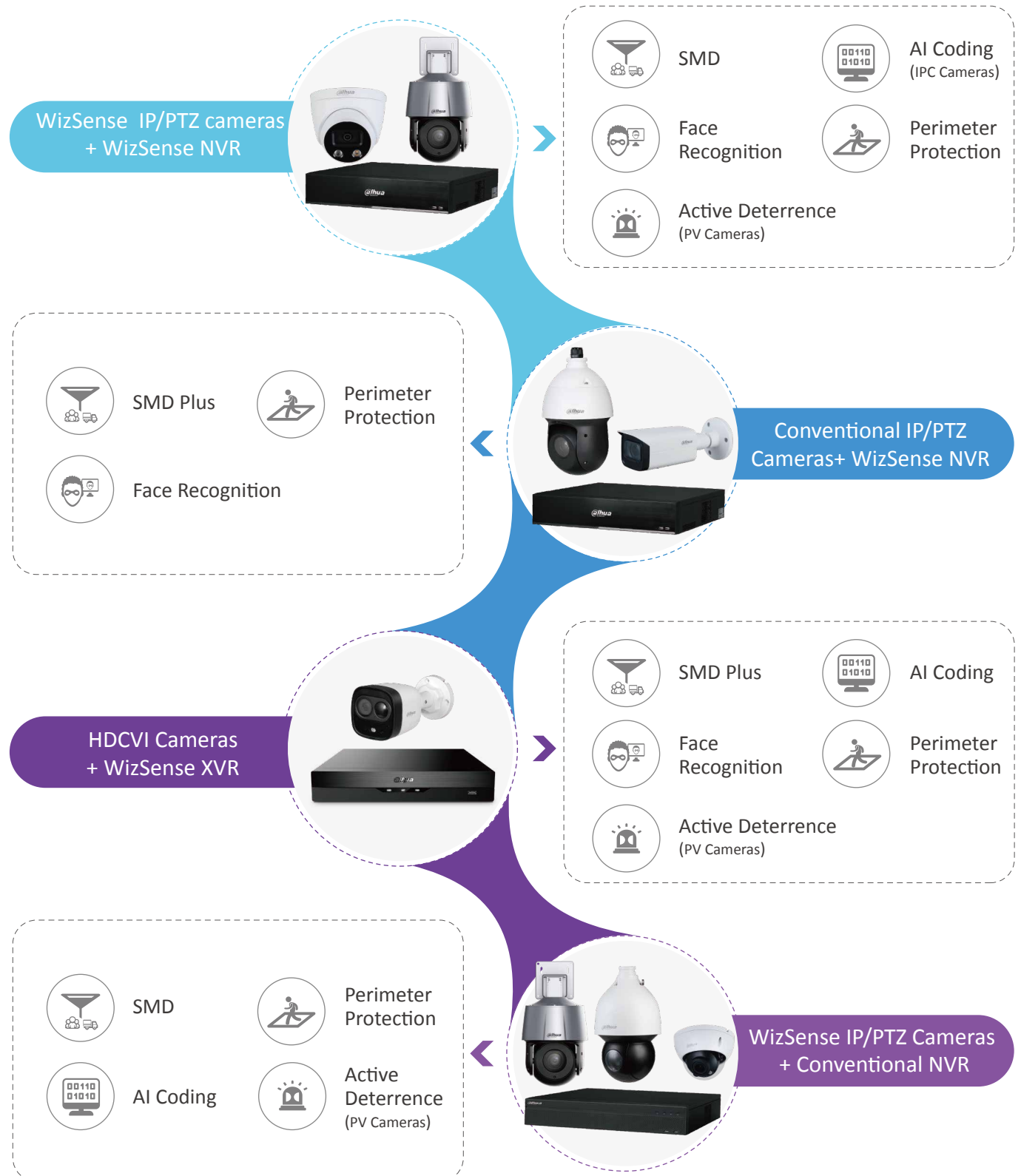
Sound and Light Alert on Site
During closing time, the camera will rotate to monitor the entrance automatically. When the alarm is triggered, the camera's built-in light and speaker will turn on to warn off intruders.

Work with DMSS App
Through the DMSS App, the camera can send push notifications to the user's mobile phone. In addition, users can also watch live video footages, capture images and set configurations using the app.

Solutions & Products

WizSense IP/PTZ cameras + WizSense NVR

- SMD
- AI Coding (IPC Cameras)
- Face Recognition
- Perimeter Protection
- Active Deterrence (PV Cameras)

Conventional IP/PTZ Cameras+ WizSense NVR

- SMD Plus
- Perimeter Protection
- Face Recognition

HDCVI Cameras + WizSense XVR

- SMD Plus
- AI Coding
- Face Recognition
- Perimeter Protection
- Active Deterrence (PV Cameras)

WizSense IP/PTZ Cameras + Conventional NVR

- SMD
- Perimeter Protection
- AI Coding
- Active Deterrence (PV Cameras)

WizSense IPC

IPC 3 Series
(2M/4M/5M/8M)

SMD 3.0   Perimeter Protection   AI Coding

- SMD 3.0, AI Coding, Perimeter Protection
- Starlight
- Smart H.264+/H.265+ triple-stream encoding
- WDR, 3D DNR, HLC, BLC
- Micro SD card, IP67, POE

SMD 3.0/AI Coding will be supported by new FW (2021.04)

IPC 3 PV Series
(2M/4M/5M/8M)

SMD 3.0   Perimeter Protection   AI Coding   Active Deterrence

- SMD 3.0, AI Coding, Perimeter Protection
- Build-in Mic & Speaker
- Smart H.264+/H.265+ triple-stream encoding
- Red and blue flashlight alarm
- WDR, 3D DNR, HLC, BLC
- Micro SD card, IP67, POE

SMD 3.0/AI Coding will be supported by new FW (2021.03)

WizSense PTZ

PTZ SD49 Series
(2M/4M)

SMD 3.0   Perimeter Protection

- SMD 3.0, Perimeter Protection, Face Detection
- IR distance up to 100m, Starlight
- Powerful 25x optical zoom
- Smart H.264+/H.265+, triple-stream encoding
- WDR, 3D DNR, HLC, BLC
- IP66, POE+
- 4G(only for SD49425XB-HNR-G)

PTZ SD5A Series
(2M/4M)

SMD 3.0   Perimeter Protection

- SMD 3.0, Perimeter Protection, Face Detection
- Auto tracking
- IR distance up to 150m, Starlight+
- Powerful 45x optical zoom
- Smart H.264+/H.265+, triple-stream encoding
- WDR, 3D DNR, HLC, BLC
- IP67, IK10, POE+

PTZ SD3A Series
(2M/4M)

New Released

SMD 3.0 | Perimeter Protection | Active Deterrence | Push Notification

- SMD 3.0, Perimeter Protection
- IR distance up to 30m, Starlight
- 4mm fixed lens/ 5x optical zoom
- Smart H.264+/H.265+, triple-stream encoding
- Built-in Mic & Speaker
- Built-in spotlight
- IP66, PoE
- WiFi (only for SD3A200-GNR-W-PV)

PTZ SD6C Series
(4M)

Coming Soon

SMD 3.0 | Perimeter Protection | Active Deterrence | Smart Tracking | PFA

- SMD 3.0, Perimeter Protection, Face Detection
- Auto tracking
- IR distance up to 150m, Starlight+
- Powerful 32x optical zoom
- Smart H.264+/H.265+, triple-stream encoding
- Built-in Mic & Speaker
- Built-in spotlight
- WDR, 3D DNR, HLC, BLC
- IP67, IK10, POE+

WizSense Thermal

Thermal BF1241 Series

Perimeter Protection | Smart Linkage

- Fire detection & alarm, Smoking detection
- Smart alarm linkage with strobe light & audio, perimeter protection
- 256×192 Vox uncooled thermal sensor technology
- Athermalized Lens (thermal), focus-free
- 1/2.8" 4Megapixel progressive scan CMOS
- Image fusion
- Micro SD memory, IP67, PoE

Thermal DF1241 Series

Perimeter Protection | Smart Linkage

- Fire detection & alarm, Smoking detection
- Smart alarm linkage with strobe light & audio, perimeter protection
- 256x192 VOx uncooled thermal sensor technology
- Athermalized Lens (thermal), focus-free
- 1/2.8" 4Megapixel progressive scan CMOS
- Image fusion
- Micro SD memory, IP66, PoE

WizSense NVR

NVR2000 AI Series

Coming Soon

SMD Plus | Face Recognition | Perimeter Protection

- Up to 1 channel video stream Face Recognition
- Up to 1 channel Perimeter Protection
- Up to 2 channel SMD Plus
- H.265/H.264 codec decoding
- Max 144Mbps incoming/outgoing bandwidth

WizSense XVR

Cooper-I Series

SMD Plus | AI Coding

New Released

XVR1B-I Series
• Up to All channel SMD Plus
• Up to All channel AI Coding
• Up to all channel 1080P / 720P camera input
• Support all channel 1080N / 720P@15fps encoding

XVR1BH-I Series
• Up to All channel SMD Plus
• Up to All channel AI Coding
• Up to all channel 5MP / 4MP / 1080P camera input
• Support all channel 5M-N@10fps / 4M-N@15fps / 1080P@15fps encoding

XVR4000-I Series
(1080N/720P)

SMD Plus | AI Coding

New Released

• Up to All channel SMD Plus
• Up to All channel AI Coding
• Up to all channel 1080P / 720P camera input
• Support all channel 1080N / 720P@15fps encoding

XVR5000-I3 Series
(5M-N/1080P)

SMD Plus | AI Coding | Face Recognition | Perimeter Protection

New Released

• Up to All channel SMD Plus
• Up to 1 channel video stream Perimeter Protection
• Up to 1 channel video stream Face Recognition
• Up to All channel AI Coding
• Up to all channel 5MP / 4MP / 1080P camera input
• Support all channel 5M-N@10fps / 4M-N@15fps / 1080P@15fps encoding

XVR5000-4KL-I3 Series
(4K-N/5MP)

SMD Plus | AI Coding | Face Recognition | Perimeter Protection

New Released

• Up to All channel SMD Plus
• Up to 1 channel video stream Perimeter Protection
• Up to 1 channel video stream Face Recognition
• Up to All channel AI Coding
• Up to all channel 4K camera input and 4K-N@30fps / 4K@ 15fps preview
• Support all channel 4K-N@15fps or 4K@7fps encoding

XVR5000-I2 Series
(5M-N/1080P)

SMD Plus | Face Recognition | Perimeter Protection | AI Coding

- Up to All channel SMD Plus
- Up to 2 channel video stream Perimeter Protection
- Up to 2 channel video stream Face Recognition
- Up to all channel 5MP / 4MP / 1080P camera input
- Support all channel 5M-N@10fps / 4M-N@15fps / 1080P@15fps encoding

XVR5000-4KL-I2 Series
(4K-N/5MP)

SMD Plus | Face Recognition | Perimeter Protection | AI Coding

- Up to All channel SMD Plus
- Up to 2 channel video stream Perimeter Protection
- Up to 2 channel video stream Face Recognition
- Up to all channel 4K camera input and 4K-N@30fps / 4K@ 15fps preview
- Support all channel 4K-N@15fps or 4K@7fps encoding

XVR7000-4K-I2 Series
(4K)

SMD Plus | Face Recognition | Perimeter Protection | AI Coding

- Up to All channel SMD Plus
- Up to 2 channel video stream Perimeter Protection
- Up to 2 channel video stream Face Recognition
- Up to all channel 4K camera input and 4K@30fps preview
- Support all channel 4K@15fps encoding

ENABLING A SAFER SOCIETY
AND SMARTER LIVING

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Dahua Malaysia
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Dahua Indonesia
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