● Application Deployment Options
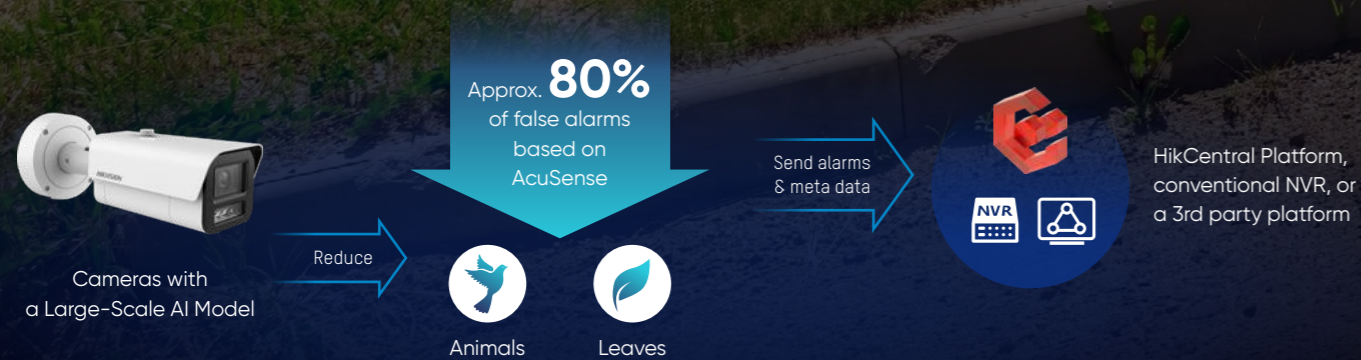
HIKVISION

1. Renovating old installations

Deploy perimeter protection with a large-scale AI model on the back end, so that you don't need to replace existing cameras.

Cameras with AcuSense

Re-analyze

All channels

DeepinMind M Series NVRs with a Large-Scale AI Model

Max. 12-ch

Only available for the 77 & 96 product models

Conventional Cameras

Analyze

Approx. **80%** of false alarms based on AcuSense

Reduce

Animals

Leaves

2. Deploying new projects

Deploy perimeter protection with a large-scale AI model on the front end, installing cameras that come equipped with a large-scale AI model.

Cameras with a Large-Scale AI Model

Reduce

Approx. **80%** of false alarms based on AcuSense

Animals

Leaves

Send alarms & meta data

NVR

HikCentral Platform, conventional NVR, or a 3rd party platform

Perimeter Protection with a Large-Scale AI Model

Experience ultimate alarm accuracy the moment you set the system up

www.hikvision.com
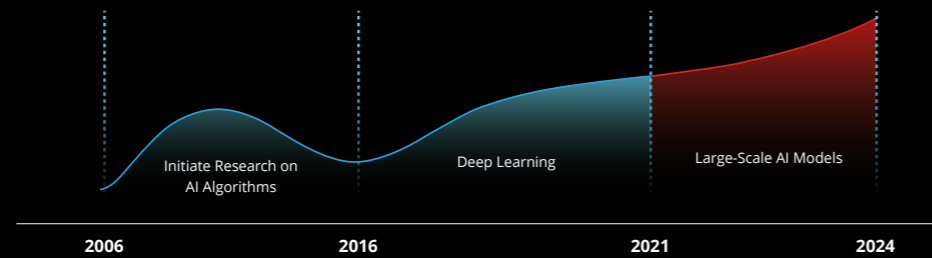support@hikvision.com

HIKVISION

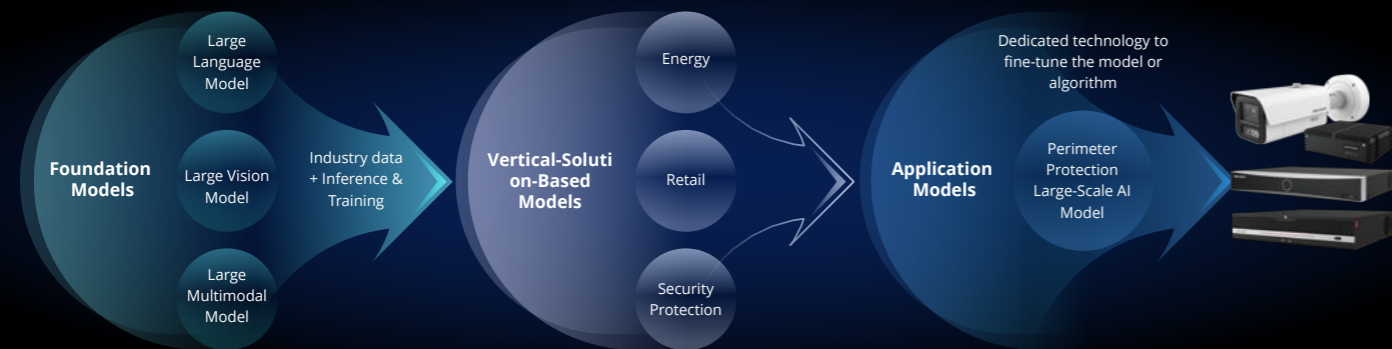## ● Challenges to Video-Based Perimeter Protection

- False or missed alarms by environmental interferences
- Hard to quickly improve alarm accuracy
- Alarm accuracy varies in different scenarios

● Hikvision's Technology Evolution

To address these challenges, Hikvision has consistently made efforts in the research and development of technologies to enable more precise, efficient, and adaptable perimeter protection.

Initiate Research on AI Algorithms

Deep Learning

Large-Scale AI Models

2006   2016   2021   2024

Yet, it was only after implementing **Hikvision's large-scale AI models** that we were able to create the optimal algorithm or model for perimeter protection.

Foundation Models
- Large Language Model
- Large Vision Model
- Large Multimodal Model

Industry data + Inference & Training

Vertical-Solution-Based Models
- Energy
- Retail
- Security Protection

Application Models

Dedicated technology to fine-tune the model or algorithm

Perimeter Protection Large-Scale AI Model

● Hikvision Products That Support Perimeter Protection with a Large-Scale AI Model

DeepinView Cameras with a Large-Scale AI Model

iDS-2CD7A46G2/V-IZHSY
iDS-2CD7A86G2/V-IZHSY

- 4/8 MP, 1/1.8'' sensor
- Perimeter protection with a large-scale AI model algorithm
- Support perimeter combined event
- Advanced perimeter configurations
- Up to 100 m VCA range
- TPM 2.0
- IP67, IK10, NEMA 4X

DeepinMind AI Box with a Large-Scale AI Model

iDS-6704NXI-S/T

- 4-ch 4 MP video stream perimeter protection with a large-scale AI model
- Pre-installed 1 TB SSD for video and picture storage
- Alarm in/out: 4/4
- Support analog audio output
- Operating at -30° C to 65° C

DeepinMind M Series NVRs with a Large-Scale AI Model

iDS-7608NXI-M2/X

- Max. 8-ch perimeter protection with a large-scale AI model via AcuSense IP cameras
- Incoming/outgoing bandwidth: 128 Mbps / 256 Mbps
- Up to 2 × 32 MP or 32 × 1080p decoding capacity

iDS-7716NXI-M4/X

- Max. 16-ch perimeter protection with a large-scale AI model via AcuSense IP cameras
- Incoming/outgoing bandwidth: 256 Mbps / 256 Mbps
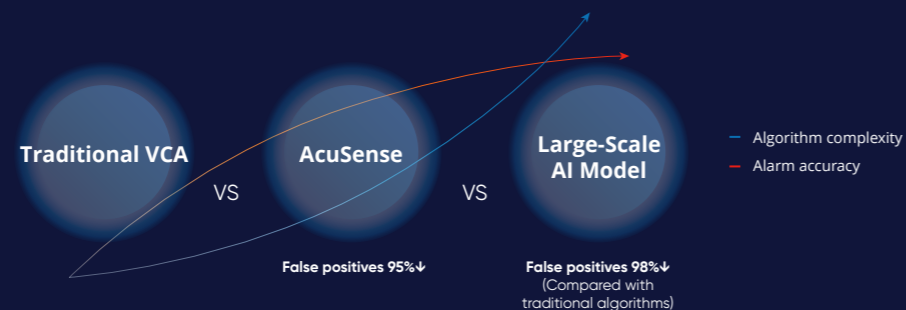- Up to 2 × 32 MP or 32 × 1080p decoding capacity

iDS-9632NXI-M8/X

- Max. 32-ch perimeter protection with a large-scale AI model via AcuSense IP cameras
- Incoming/outgoing bandwidth: 320 Mbps / 400 Mbps
- Up to 2 × 32 MP or 32 × 1080p decoding capacity

## ● Why Perimeter Protection with a Large-Scale AI Model?

More pre-training, higher accuracy

As the algorithm's complexity and capacity increase through advanced pre-training, its accuracy also improves dramatically.

Traditional VCA   VS   AcuSense   VS   Large-Scale AI Model

— Algorithm complexity
— Alarm accuracy

False positives 95%↓

False positives 98%↓
(Compared with traditional algorithms)

Optimal performance upon deployment

Experience high-accuracy alarms the moment you set the system up. There is no need to enhance the alarm accuracy as the algorithm performs optimally by default.

Accuracy

— Large-Scale AI Model
— Traditional Algorithms

Deployment Duration

Algorithm Performance Enhancement
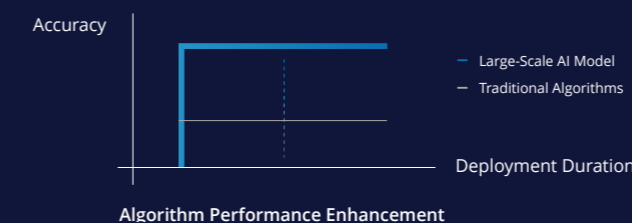
The one-size-fits-many solution

Enjoy effortless scenario adaptation brought by the large-scale AI model. The algorithm is ready for deployment in scenarios with varied conditions.