HIKVISION®

EMPOWERED BY BETTER
DEEP LEARNING CAPABILITIES
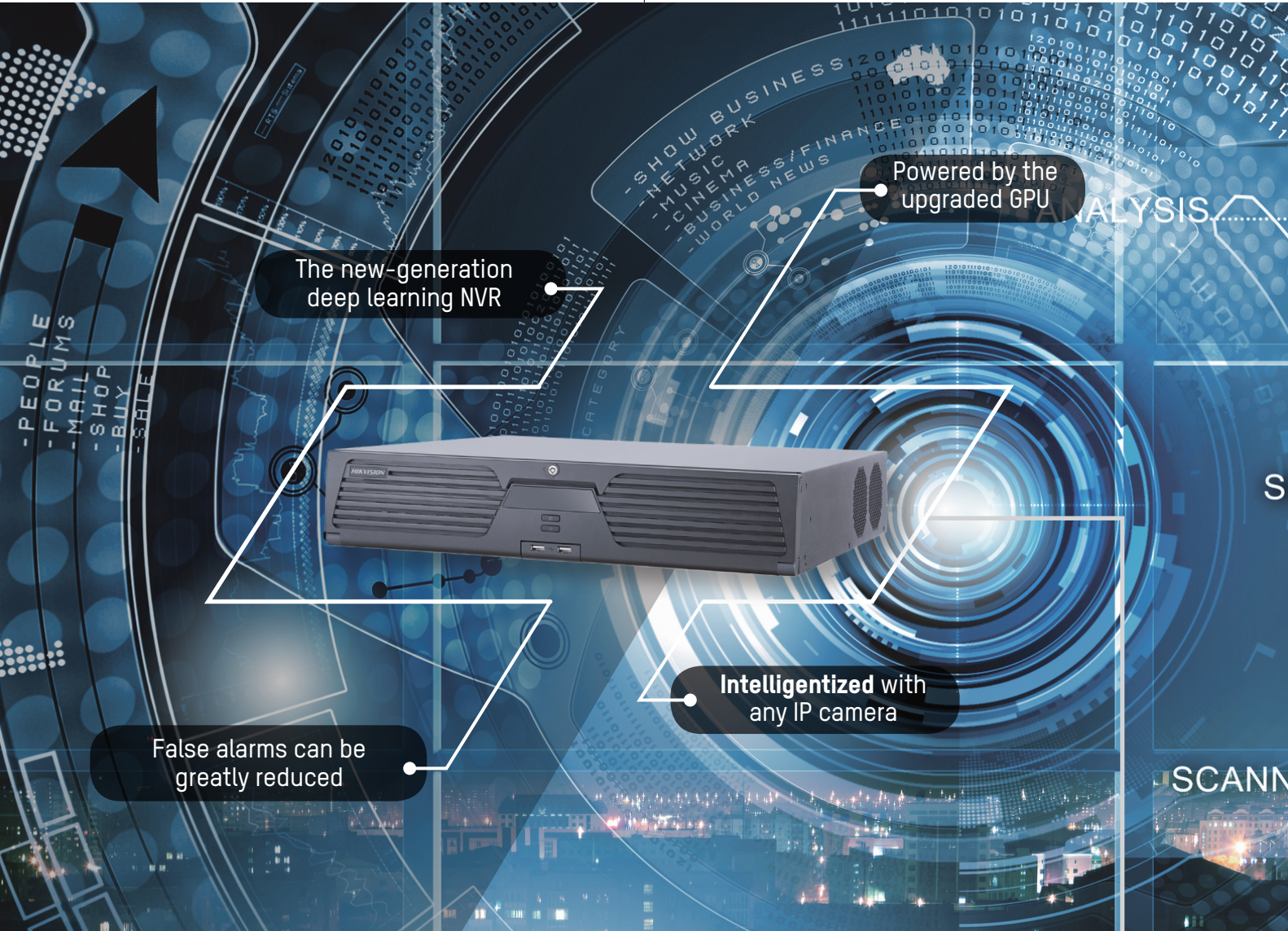# HIKVISION'S NEW-GENERATION
DeepinMind SERIES NVR

HIKVISION'S AI & DEEP LEARNING TECHNOLOGIES

A technology with innumerable applications, Artificial Intelligence is beginning to influence many aspects of our lives. When it comes to the field of video & image analytics, AI applications have grown rapidly in recent years, benefiting from deep learning algorithms based on neural networks. For video surveillance, the IoT era has already arrived. But this new age also brings challenges. Now, Hikvision's DeepinView Cameras and DeepinMind NVRs will lead the way in this new world of surveillance technology by making invisible intelligence visible for users, and then putting that intelligence to good use.

Hikvision's Artificial Intelligence (AI) encompasses technologies such as cross-media perception, multi-dimensional big data, deep learning, edge intelligence, machine vision, and human-computer interaction (HCI).

Powered by the upgraded GPU

The new-generation deep learning NVR

Intelligentized with any IP camera

False alarms can be greatly reduced

HIKVISION'S DeepinMind SERIES NVR

Imagine a radically new and powerfully intelligent video recording device from Hikvision. An NVR with the power to overhaul any video surveillance system.

This is it.

Hikvision's DeepinMind Series NVR is embedded with a deep learning algorithm executed by its GPU, which is faster and more accurate than conventional CPUs. This NVR effectively reduces alarms triggered by animals and inanimate objects, with a greater than 90% accuracy.

Hikvision's DeepinMind Series NVR integrates perfectly with economical IP cameras as an intelligent false alarm reduction solution. Empowered with this NVR, an existing security system will radically advance its capabilities in just one simple step. Continue reading to see how this is possible.

THE NEW-GENERATION DEEPINMIND SERIES NVR

Hikvision's new-generation DeepinMind Series NVR is embedded with a deep learning algorithm. Its remarkable power is based on the GPU design, not the CPU, setting it apart from – and ahead of – its competitors' digital video recorders. The performance is enhanced, and the VCA reaches a new level of sophistication.

NEW GPU
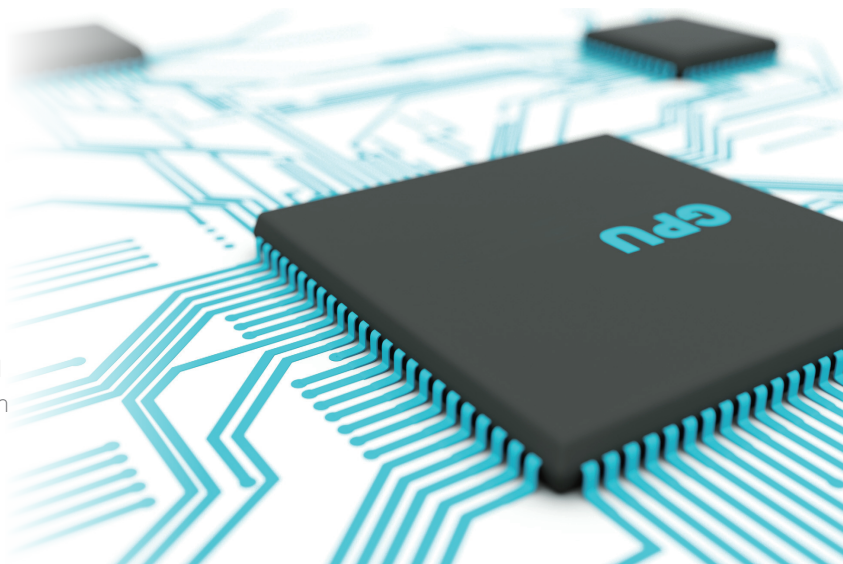
REDUCING FALSE ALARMS

The DeepinMind Series NVR is based on a deep learning algorithm. With its human body detection technology, this NVR guarantees vastly superior false alarm reduction rate. No more animals or random objects triggering alarms. This component identifies human bodies and reduces inconsequential triggers, alerting personnel accordingly.

Images & Alarm Messages

Deep Learning Algorithm

Human

Animal
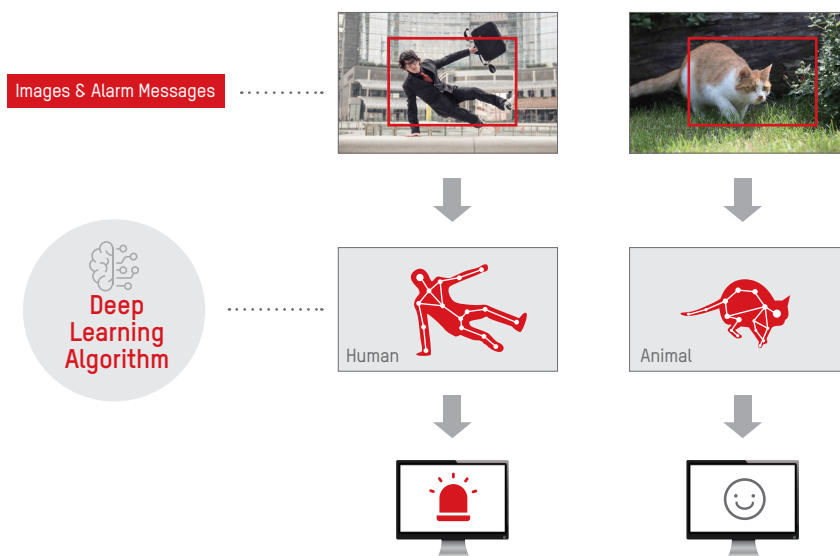
VASTLY IMPROVING FALSE ALARMS REDUCTION RATE

The DeepinMind Series NVR performs analysis on videos to reduce false alarms. Moreover, users can search recorded footage and find targets more quickly than with other types of NVRs.

Video from IP Cameras

Line Crossing Detection   **Intrusion Detection**

DeepinMind Series NVR

Cats   Leaves
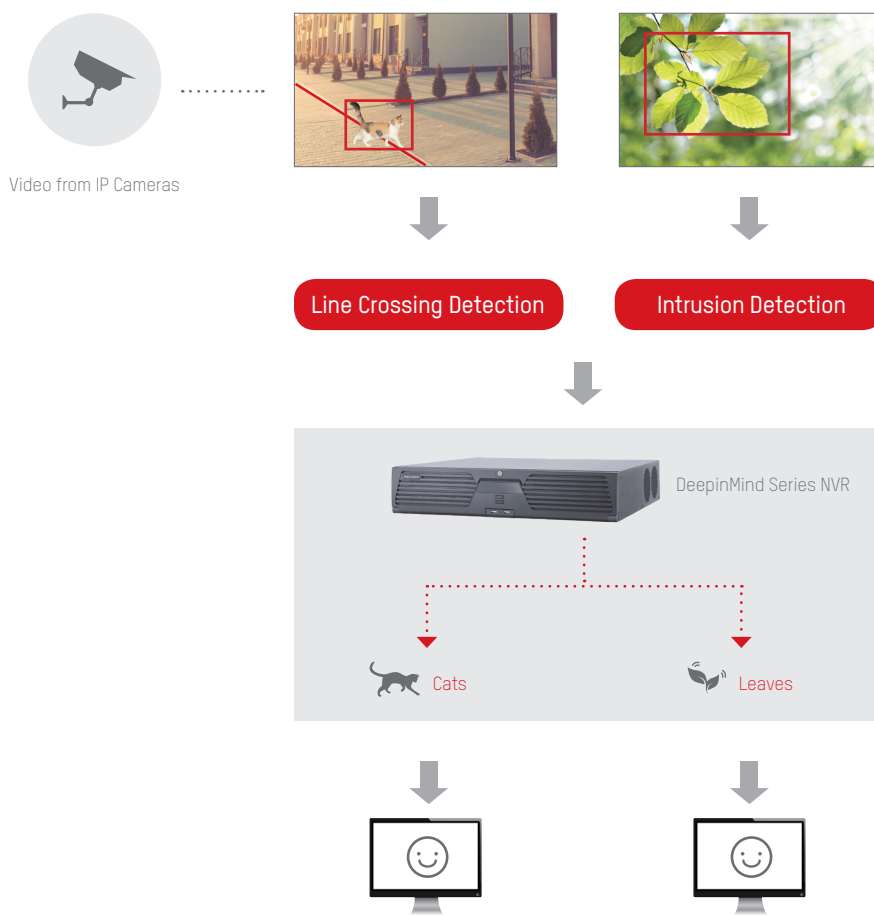
With the DeepinMind Series NVR, false alarms are greatly reduced.

Light   Cats   Rain

Birds   Leaves   · · ·

People

False alarm reduction rate
90%
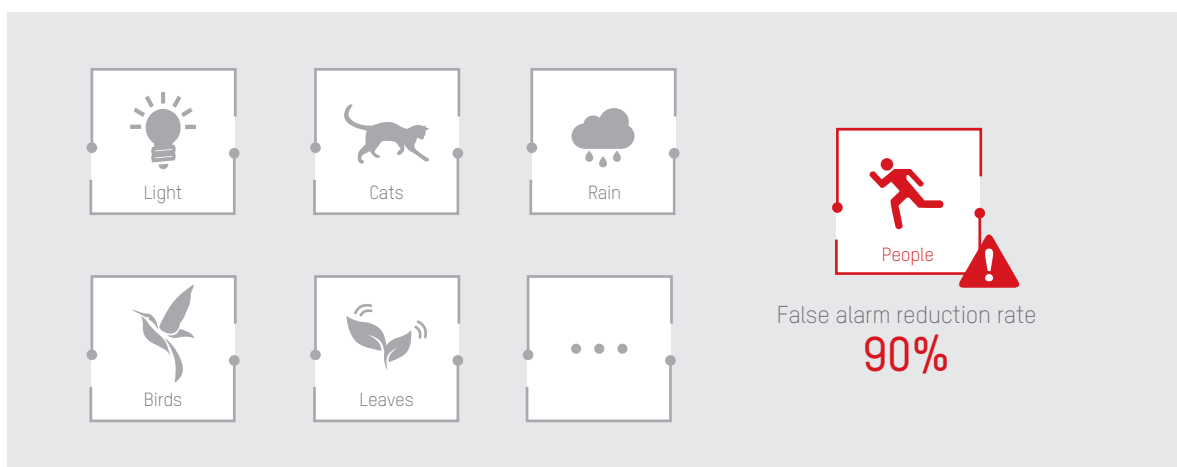
A NEW GENERATION ALGORITHM

With a new generation algorithm, the new DeepinMind Series NVRs accomplish target classification and target detection even more accurately. These NVRs also feature extensive compatibility with existing components and high false alarm reduction rate.

Better Compatibility with Cameras
Compatible with 3rd-party network cameras with stable performance

New Target Classification Algorithm
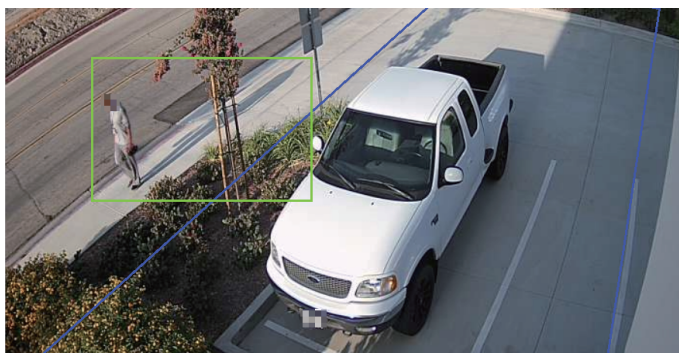Improving target detection accuracy with a target classification algorithm

Upgraded Algorithm
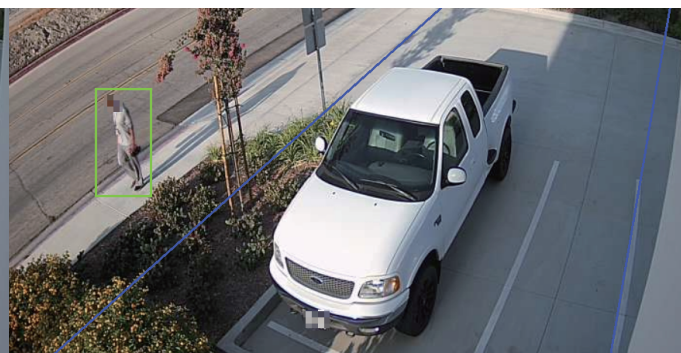Reducing false alarms based on a deep-learning target-tracking algorithm

▶ An Upgraded Algorithm

Single-target scenarios:
More accurate target detection, reducing problems caused by shadows

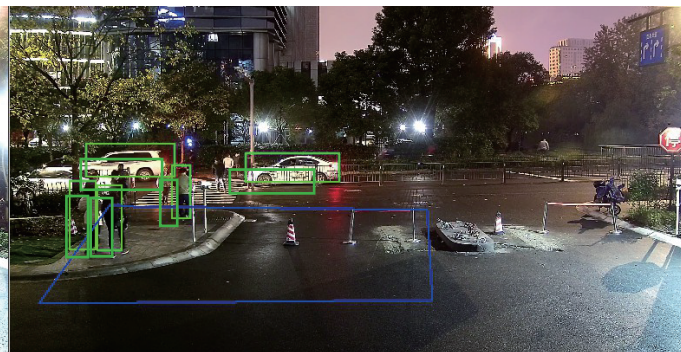The first generation algorithm   The upgraded algorithm

Multi-target scenarios:
Differentiated target detection based on a target-tracking algorithm before further event analysis

The first generation algorithm   The upgraded algorithm

Scenarios with human and vehicle targets:

Differentiated human versus vehicle target detections, with more accurate target classification for specific event analysis
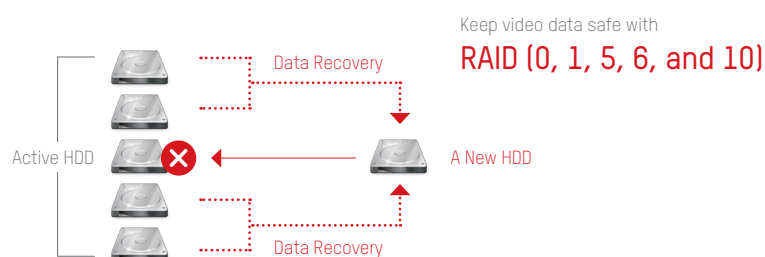

The first generation algorithm

The upgraded algorithm

GREAT FEATURES PERFECTLY EQUIP
THE ROBUST NEW-GENERATION DeepinMind SERIES NVR
# FOR PROJECTS OF ANY SIZE

▶ RAID

Keep video data safe with
RAID (0, 1, 5, 6, and 10)

In the case that one of the NVR's hard drives fails, a replacement drive can be substituted. The RAID function will supply the original data by the calculation of the data from the rest normal hard drives to the new one.
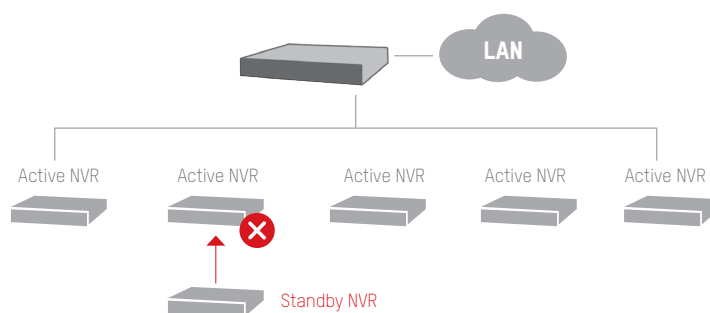
▶ HDDs

Store video for extended periods via 8 HDD interfaces with up to 8 TB capacity for each HDD
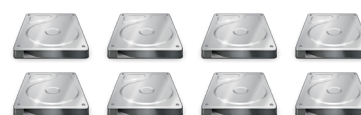

8 × 8 TB HDD

▶ N+1 Hot Spare

Create a more stable surveillance system using the N+1 hot spare option

FLEXIBLE SYSTEM UPGRADE

The best way to upgrade a conventional video surveillance system is simply to replace the existing recorder with Hikvision's DeepinMind Series NVR. One step is all it takes. Add a level of deep learning that was previously unavailable to your video surveillance system, and enjoy a whole new level of efficient security.

DeepinMind Series NVR

Replace your conventional NVR
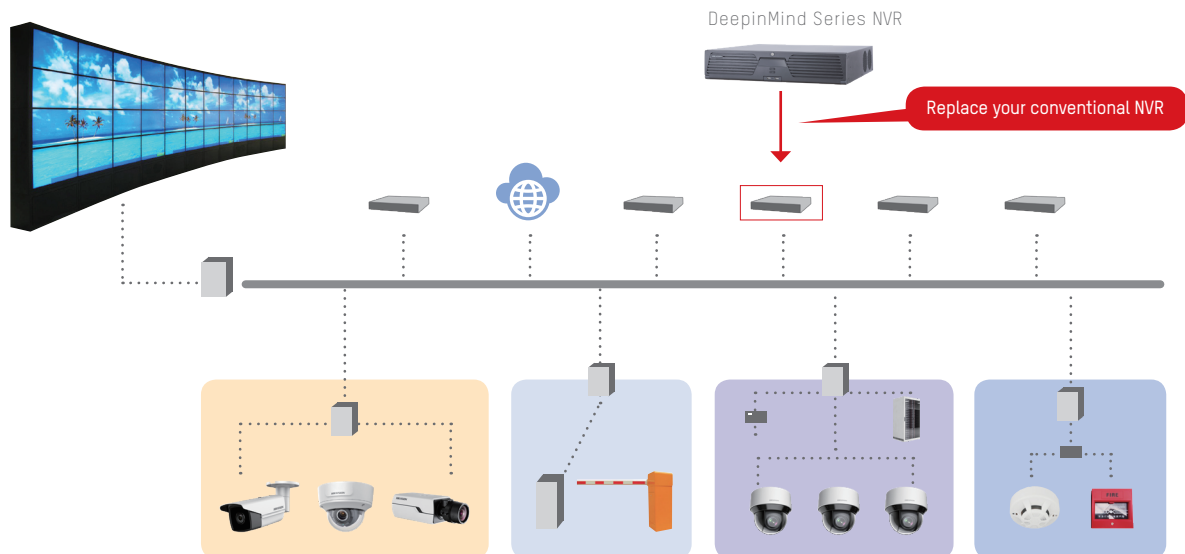
APPLICATION SCENARIOS

The DeepinMind Series NVR suits a variety of scenarios that require high accuracy on multiple, automated alarms, such as smart buildings, industrial parks, hotels, and banks.

Smart Buildings

Industrial Parks

Villas

Museums

PRODUCT SHOWCASE

4 HDD

Perimeter Detection

77 Series
iDS-7716NXI-I4/16S(B)
iDS-7716NXI-I4/16P/16S(B)
iDS-7732NXI-I4/16S(B)
iDS-7732NXI-I4/16P/16S(B)

- 2-ch @ 12 MP / 16-ch @ 1080p
- H.264, H.265, H.265+
- Alarm I/O: 16/8
- 2 HDMI / 1 VGA, HDMI1 output at up to 4K/60 Hz
- 4 HDD x 8 TB, 1 eSATA
- Up to 16 channels with 2 MP false alarm reduction based
  on human detection

8 HDD

Perimeter Detection

96 Series
iDS-9616NXI-I8/16S(B)
iDS-9632NXI-I8/16S(B)

- 16-ch @ 1080p
- H.265+ & 12 MP
- Alarm I/O: 16/4 (16/8 is optional)
- 2 HDMI / 2 VGA, HDMI1 output at up to 4K/60 Hz
- 8 HDD x 10 TB, 1 eSATA
- RAID 0 / 1 / 5 / 6 / 10
- Up to 16 channels with 2 MP false alarm reduction based
  on human detection

HARDWARE AND SOFTWARE COMPATIBILITY

TYPE	RECOMMENDED	SUPPORT	REMARKS
Cameras	2 Series e.g. DS-2CD2TX5-I3/I5/I8	✓	Recommended models that support IR
	5 Series 👍 e.g. DS-2CD5A46G0-IZS	✓	Recommend Resolution: 2 / 4 / 8 MP
Software	iVMS-4200	✓	
	HikCentral	✓	
	Mobile App: Hik-Connect	✓	