



SUPERIOR STORAGE AND
ROBUST RECORDING
HIKVISION NVR



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Truly effective video surveillance requires more than just good cameras. High-quality recording devices are indispensable. What good is a set of great cameras if the backend devices are faulty or the footage gets lost?

When you install top of the line cameras, chances are you would not install average NVRs. Top quality cameras deserve top quality NVRs. That is why Hikvision developed its newest series of embedded NVRs. Hikvision embedded NVRs are all-in-one video recording units which offer the benefits of IP video, but with no complex integration. And now with Deep Learning units, Hikvision is set to launch into new realms of power and functionality in security industry video recording.

Captured video is only as good as the devices that store it and play it back. Don't take chances with inferior video recording devices. Get the confidence that comes with powerful and reliable NVRs. Whether you are installing a new surveillance system or upgrading an existing one, aim for the best with Hikvision's Embedded NVRs.



Hikvision embedded NVRs are **all-in-one** units built for the highest quality IP video but without any complex integration. Here are just a few of their advantages:



Stable storage system



Powerful and economical
IPC input and display
capability



Stable operation 24/7



Convenient and
easy to use



Excellent VCA
accuracy



More useful design

EVERY FUNCTION in ONE BOX

HIKVISION NVR INTRODUCTION




HIKVISION NVR FEATURES

Storage

▶ Hard Drive Storage

With Hikvision's Hard Drive Health Detection, NVRs can display how many storage units are operating correctly.

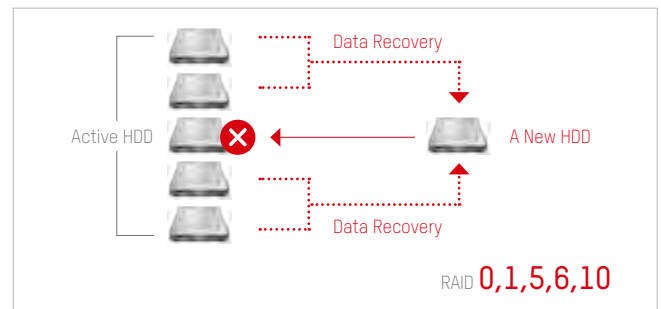


HDD State Detection

- Up to **24** disks
- Up to **8TB** for a single HDD
- Up to **1.92TB** 9 months @ 1080P
- 96 series support HDD **Hot Swap**

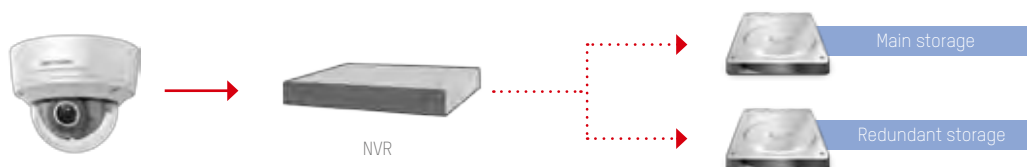
▶ RAID

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.



▶ Redundant Recording

To ensure the safekeeping of security video, the NVR saves two copies of recorded footage: one copy in the general R/W HDD and the other copy in redundant HDDs.



▶ Video Aging

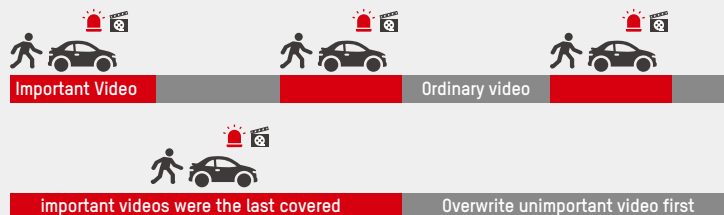
Some video footage requires long-term storage. By imitating characteristics of memory in the human brain, Hikvision NVRs can optimize the storage technology. This way, the NVR uses hard disks more efficiently.

The more important recordings will be stored longer

All records in the past

Identify important files
(Videos which had activity goals,
event alarms, etc.)

Important data migration



► **File Lock**

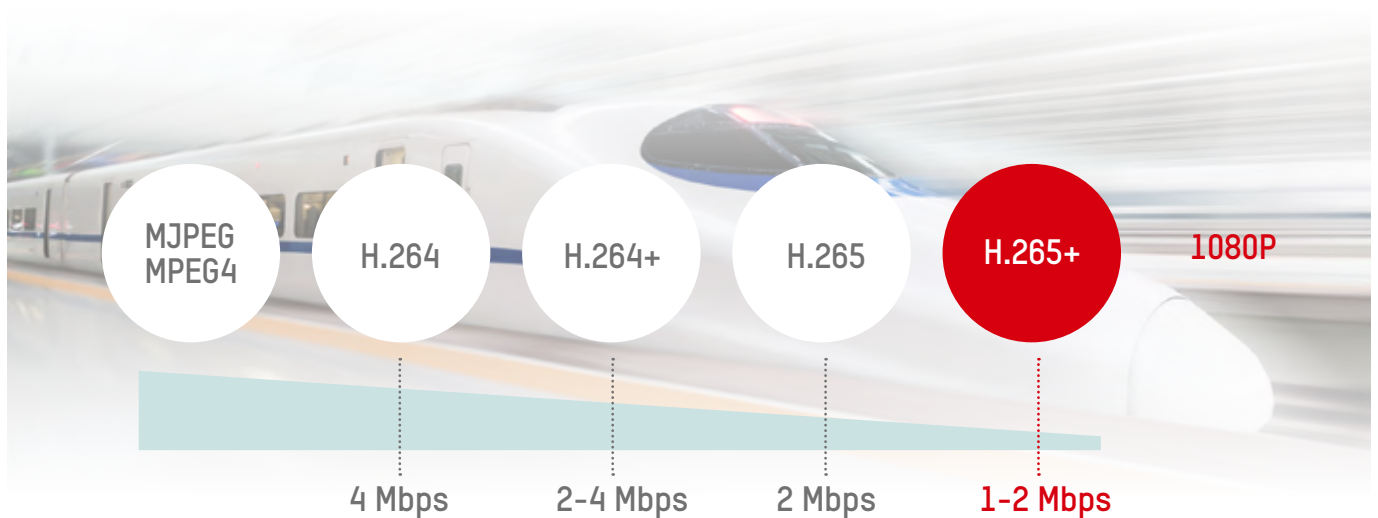
File lock adds another level of safety to recorded files. When you've got footage that you can't afford to lose, click on the Lock icon to preserve the recorded file. Once locked, the file can't be overwritten during regular, cyclical recording. When you need more storage space, click again to unlock and overwrite.



n2 Display

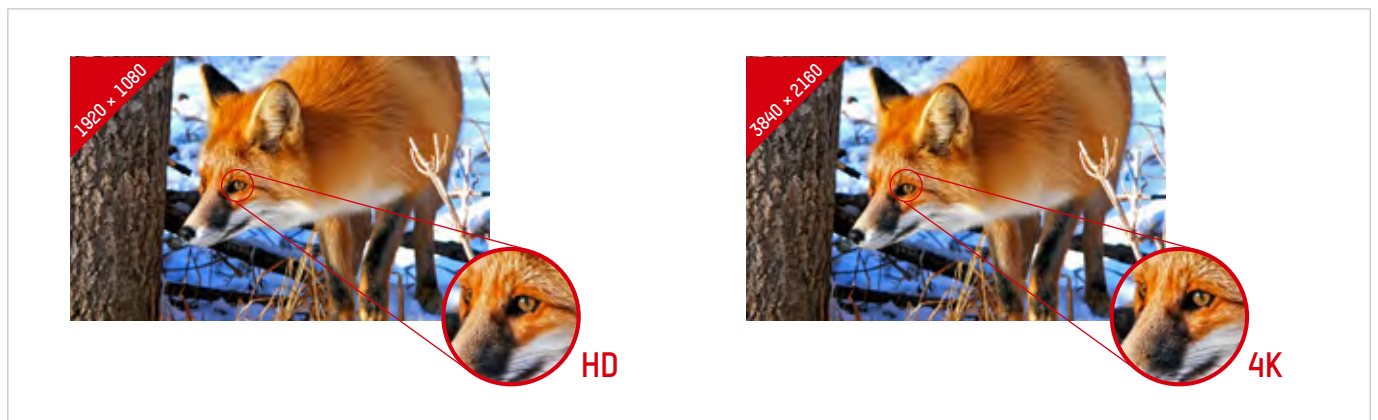
► **Multiple Stream Types**

Self-adapting to multi-type code streams, and compatible for different kinds of cameras.



► **4K Resolution**

With 4K decoding and display capability, these NVRs record and reproduce sharper images with more details and yield more potent security video.



► HD Video Display

With 4K decoding and display capability, Hikvision NVRs will reproduce more details. The Super Series can display up to 68-ch video at 1080p, the I-Series can display up to 16-ch video at 1080p, and the K-Series can display up to 8-ch video at 1080p.

The Super Series

can display up to 68-ch video at 1080P

The I-Series

can display up to 16-ch video at 1080P

The K-Series

can display up to 8-ch video at 1080P



► Video Wall

Video wall functionality expands and extends the use of conventional monitors. More channels and more functions come to life, enhancing video surveillance capabilities and giving security personnel the upper hand in their daily operations.



► Multi-Video Output

- **Independent Outputs:** Multiple outputs can display various channels independently
- **Synchronous Outputs:** The same channel displays at different locations synchronously



Output 1

Output 2

I- & K-Series: Independent outputs

E-Series: Synchronous outputs

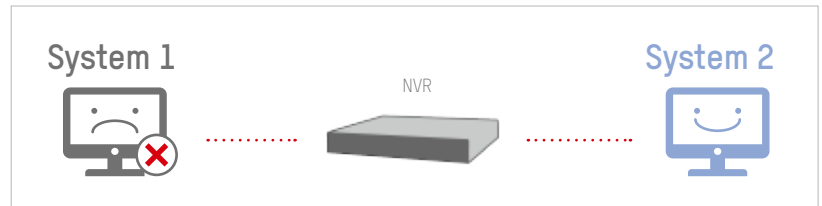
n3 Stability

► Embedded Linux System



► Dual Systems

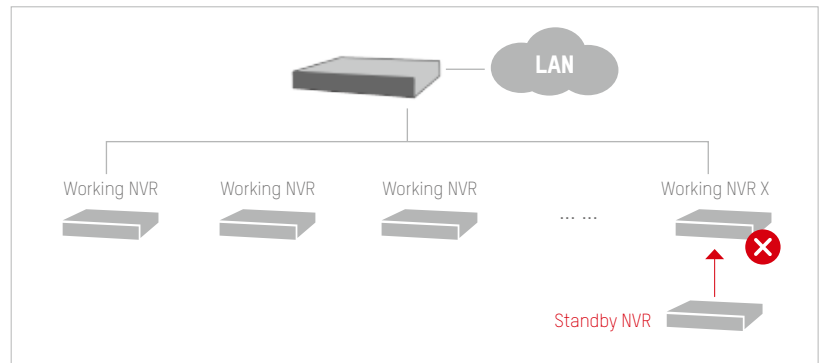
Our NVRs have two copies of the firmware in the flash, so if one of the flash sections ceases, the redundant firmware will operate in its place.



► N+1 Hot Spare

Emergency Scenario:

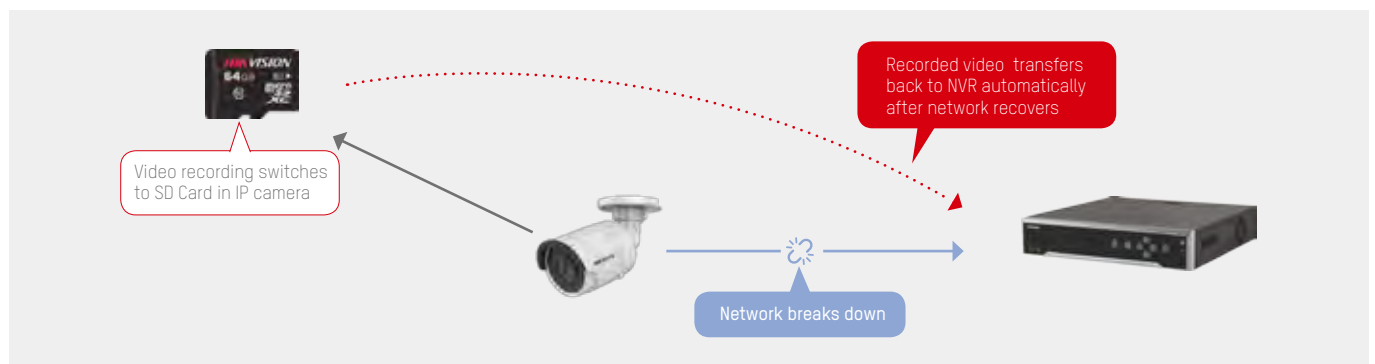
- When working NVR X breaks down, the standby NVR will take over NVR X to keep the system working on.
- **Standby NVR** – After network recovers, recorded video transfers back to NVR 1 (the backup NVR can only take over one offline device at a time)



► Automatic Network Replenishment (ANR)

Emergency Scenario:

- Network breaks down
- Video recording switches to SD Card in IP camera
- After network recovery, recorded video retransfers back to NVR



Easy to Use

► Super POE

Hikvision's "Super" Power-over-Ethernet capability (POE) reduces installation and configuration headaches as well as material costs. No need to lay power cables or to configure IP addresses for each camera! Everything is ready to go! What's more, with Super POE, you'll get 300 meters of power and video transmission, versus only 100 meters in the previous design.



Note: Only I & K series PoE NVRs support this feature.

► Dual NICs

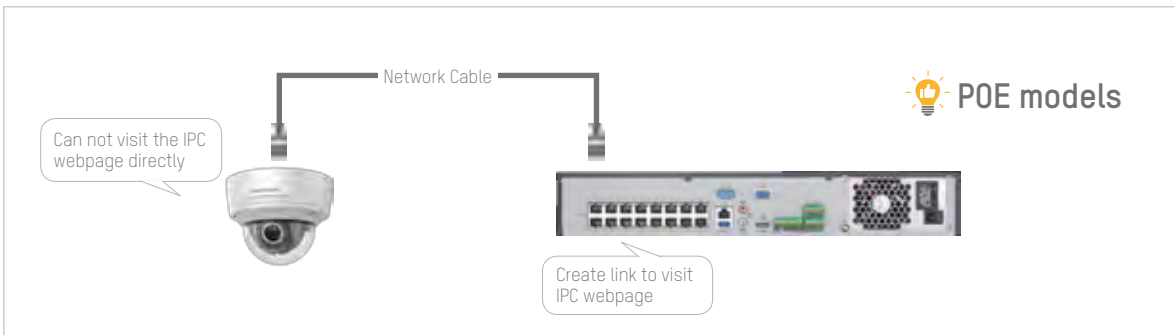
The Dual-NIC feature provides two isolated network interfaces, so customers can configure LAN & WAN surveillance according to their particular application and needs.



► Virtual Host

For remote users, this function offers an easy way to configure IPC parameters connected to the PoE port even when the IPC has not been allocated an IP address.

A link on the NVR's web page takes users to the IPC's web page.



► Easy Search

In this mode, users can search video from a selected channel. Like its name, it makes searching through video easier than ever.



Alarm event



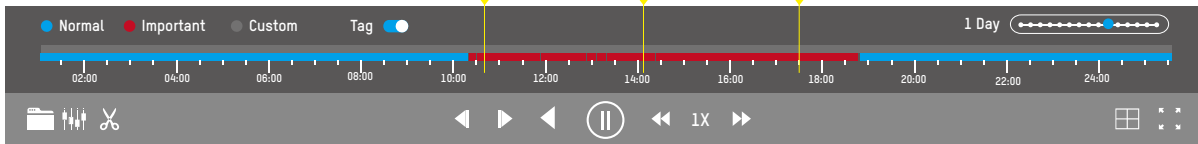
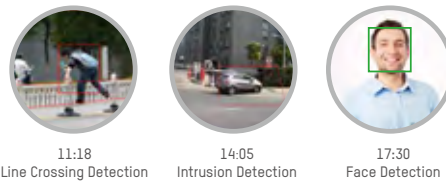
VCA detection

► Easy Playback

In preview mode, users can replay video from a selected channel.

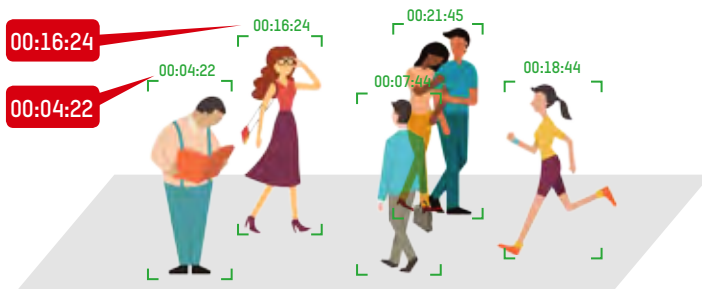
The NVR supports several Smart playback modes:

- Smart: Skip static images and play back periods containing the target event
- Sub-periods: Cut an extended time period into several short periods; play back any short time period in several different channels at the same time.



► Video Abstraction

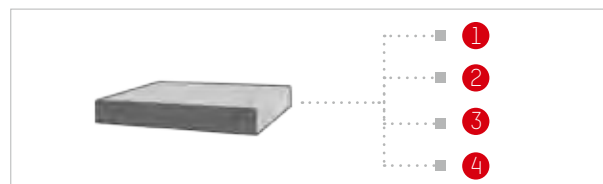
In this playback mode, the NVR will condense one day of video into ten or twenty-minutes. Events occurring at various times can be shown in the same image, radically reducing the time required to locate a single event.



- Video Dynamic enrichment
- Multi - objective superposition
- Target virtualization
To prevent the human overlap

► Multi-Screen Output

The NVR has up to four different output interfaces and various users can control or preview the same NVR from different locations.



05 DeepinMind



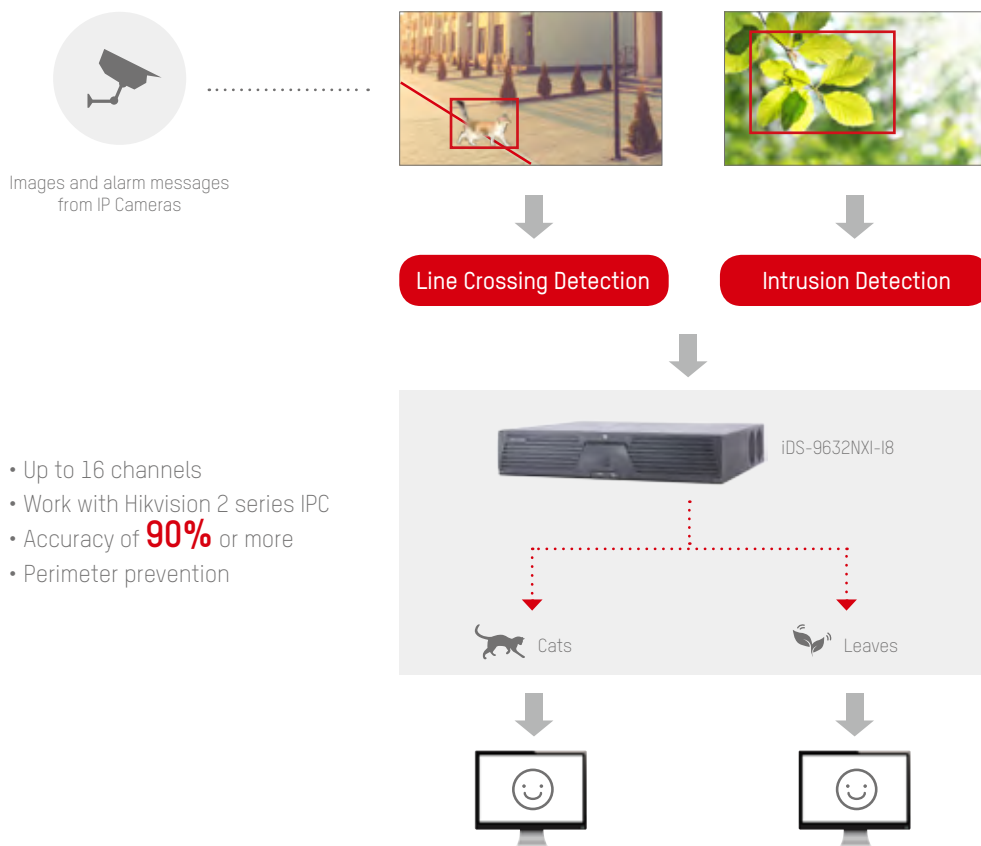
Imagine a radically new and powerfully intelligent video recording device from Hikvision. An NVR with the power to overhaul any video surveillance system. This is it.

Hikvision's DeepinMind Series NVR Model #iDS-9632NXI-I8/16S is the first embedded NVR based on a deep learning algorithm executed by its GPU, making it faster and more accurate than conventional CPUs. This NVR effectively filters out alarms triggered by animals and inanimate objects, with greater than 90% accuracy.

Deep learning has come to the security industry in this amazing video recording unit.

Hikvision's DeepinMind NVR integrates beautifully with economical IP cameras as an intelligent filter solution.

Integrating this NVR into an existing security system will radically advance its capabilities in one simple step. Continue reading to see how this might be possible.

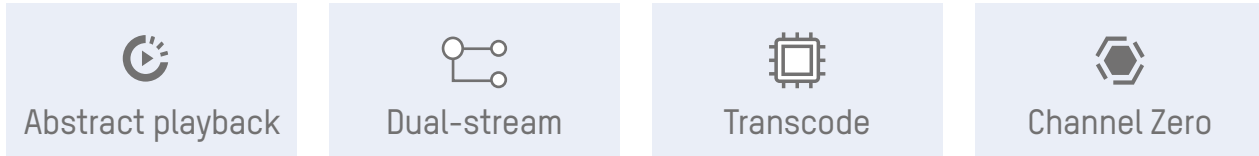


After DeepinMind NVR processes images, the false alarms are filtered out!

06 Other Features

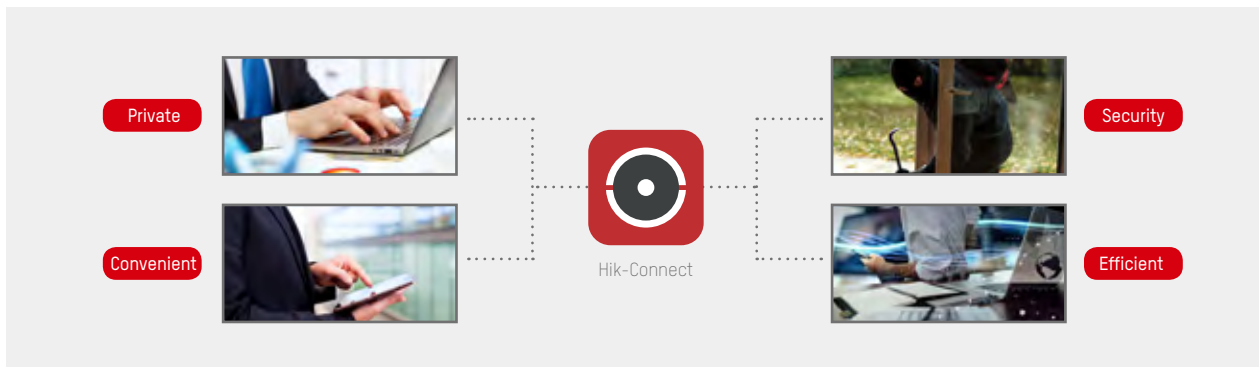
► Network Application Enhancement

Channel Zero and Transcode: With channel-zero function, users can view up to 16 cameras connected to an NVR but only use one channel's worth of bandwidth. The transcode function reduces the stream data by reducing the resolution, bitrate, or framerate. In poor network environments, the Channel-Zero function helps to ensure fluid video for remote users. For mobile-phone users, this function can also reduce charges.



► Hik-Connect

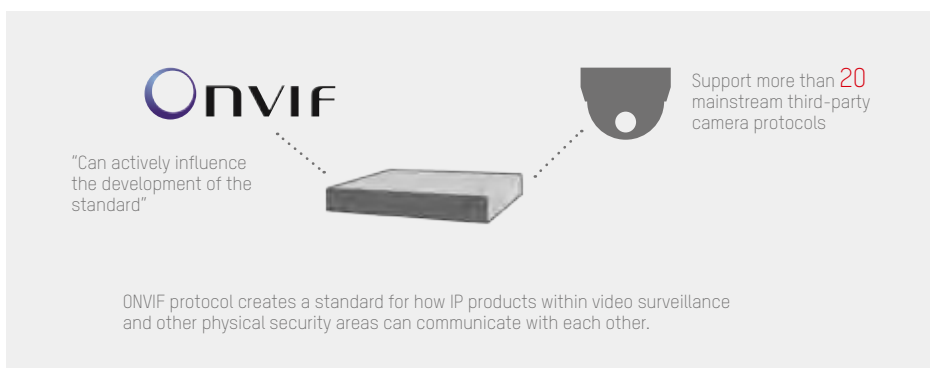
Hik-Connect App management provides privacy, security, convenience, & efficiency – all in one! Anywhere, anytime, across the entire system.



► Third Party Compatibility

Hikvision NVRs support over 20 common third-party camera protocols.

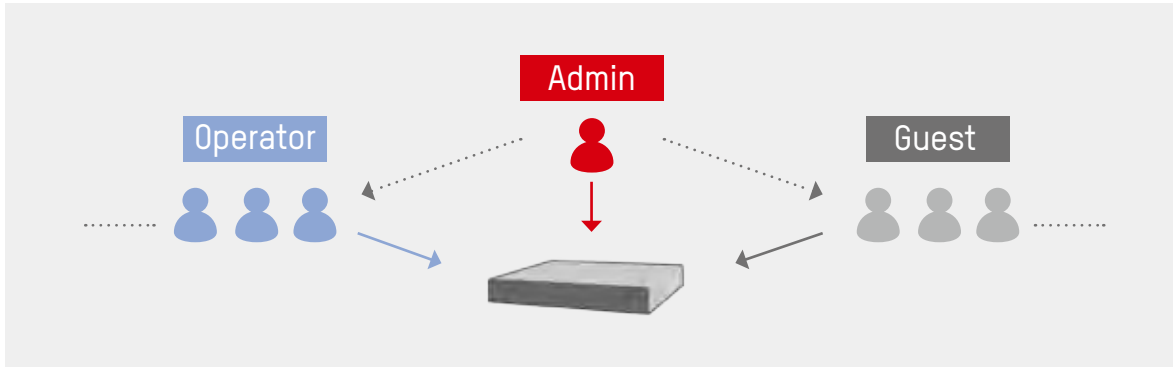
Online search for Hikvision and Third-Party IP Cameras reveals multiple methods for adding cameras: manual, one-touch, and custom configurations.



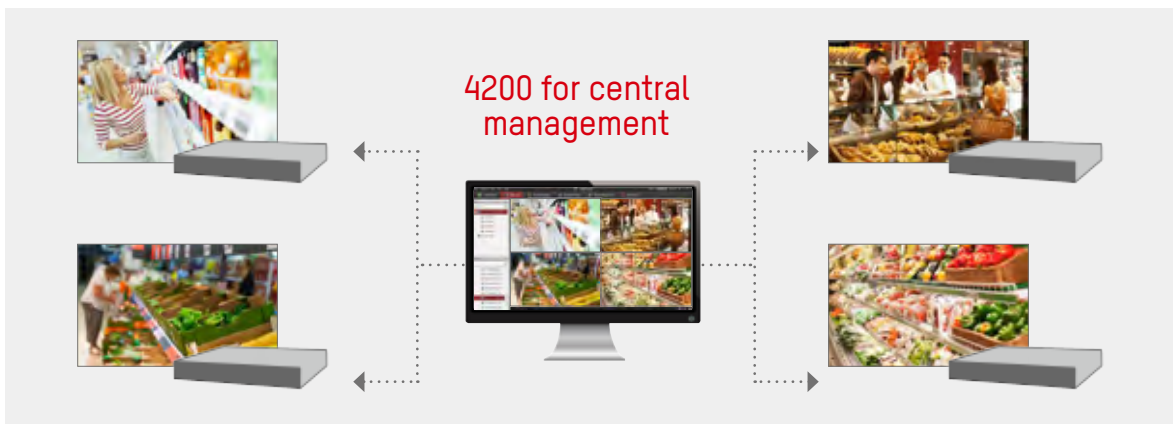
Hikvision NVRs can connect to a third-party IP camera via ONVIF protocol. Our Embedded NVRs support third-party device integration. We provide third-party integrators with SDK and ISAPI protocol documents. The NVRs also support standard ONVIF protocols.

► Multilevel Permissions

- Users can be assigned various access levels and management of multiple users can be employed to ensure device and information security.
- The default user "Admin" is the administrator. This user has the highest privilege and can decide the other two levels of user authorization.



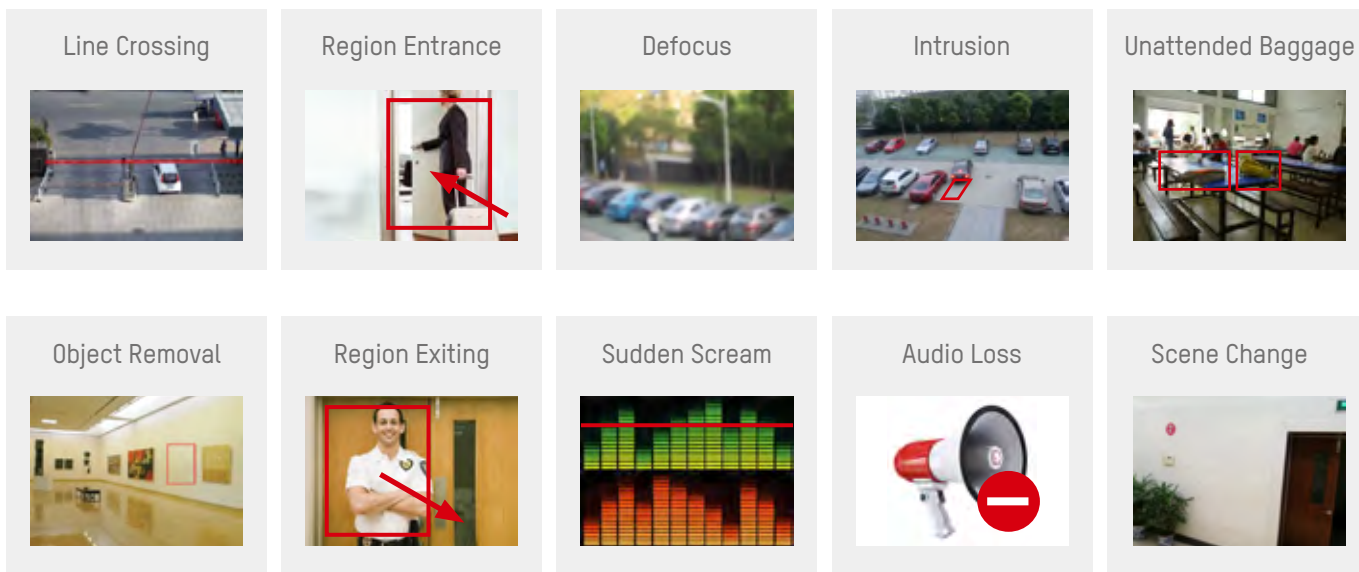
► VMS Client – iVMS-4200



► Alarm Push

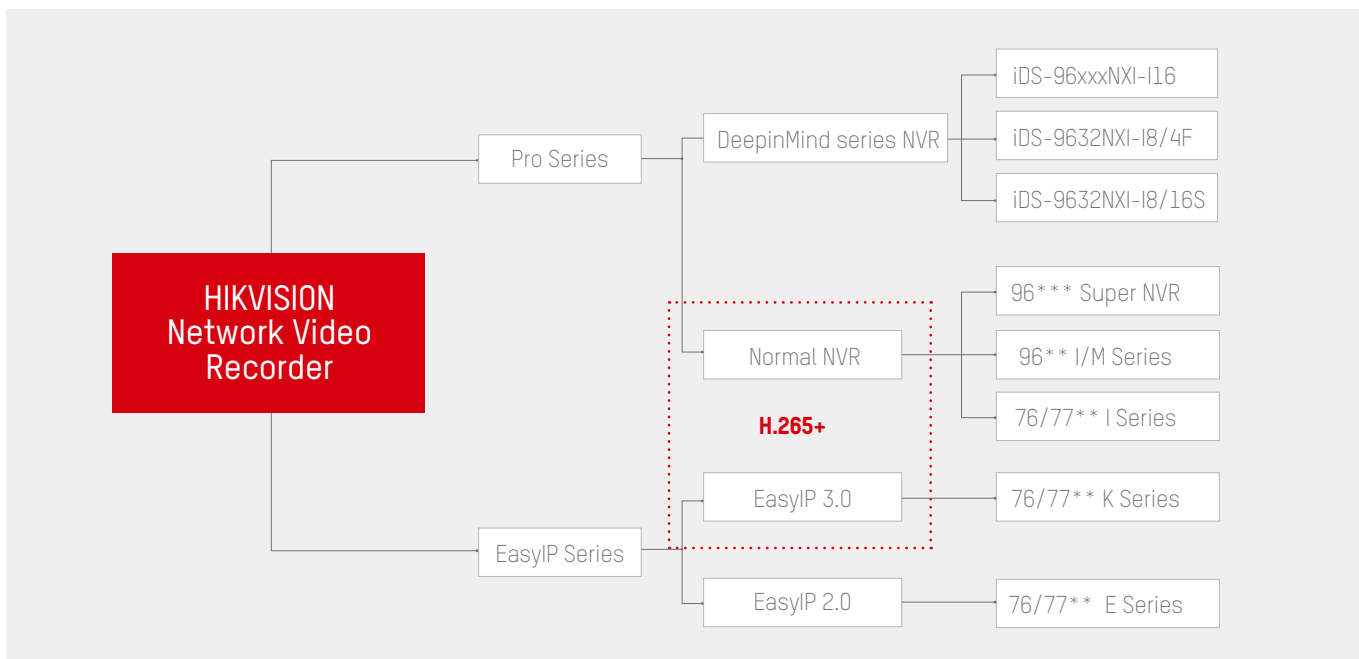


► VCA Behavior Analysis



PRODUCT SHOWCASE

► Hikvision Network Recorder Family



► Network Video Recorders



DeepinMind series NVR

iDS-9632NXI-I8/16S

- Human body detection and analysis
16 channel detection capacity
 - Enhances decoding capabilities and bandwidth usage
Up to 8-ch. @ 1080p decoding
Bandwidth: 320 Mbps input / 256 Mbps output
 - Compatible with IP cameras up to 12 MP
 - H.265+/H.265, H.264+/H.264 video standard
- compatible
 - 2 HDMI / 2 VGA ports, HDMI1 output at up to 4K / 60Hz
 - Smart 2.0 functions and APNR
 - Supports 8 HDDs (8TB/Disk) and RAID (RAID 0/1/5/6/10)
 - N+1 Hot spare
 - HDD Hot swap



Pro series

96xxxNI-I(/H) Super NVR

- H.265+/H.265/H.264+/H.264 self-adapting decoding
 - Up to 68 channels of 1080P resolution decoding
 - 768 Mbps input bandwidth
 - Redundant power supply
 - 256/128-ch IP cameras inputs
- Supports HDD hot swapping
 - Supports RAID 0/1/5/6/10
 - Supports N+1 hot spare operating mode
 - 24/16 SATA interfaces
 - Supports VCA cameras, LPR cameras and People counting cameras



Pro series

96xxNI-I Series

- H.265+/H.265/H.264+/H.264 self-adapting decoding
 - Up to 4 channels of 4K / 16 channels of 1080P resolution decoding
 - 320/256 Mbps input bandwidth
 - 64/32-ch IP cameras inputs
 - Supports HDD hot swapping
- Supports RAID 0/1/5/6/10
 - Supports N+1 hot spare operating mode
 - 8/16 SATA interfaces
 - Supports VCA cameras, LPR cameras and People counting cameras

**Pro series****76/77xxNI-I Series**

- H.265+/H.265/H.264+/H.264 self-adapting decoding
- Up to 4 channels of 4K / 16 channels of 1080P resolution decoding
- 256/160/80 Mbps input bandwidth
- 32/16/8-ch IP cameras inputs
- 4/2 SATA interfaces
- 16/8-ch PoE support, and up to 300m PoE distance
- Supports VCA cameras,
- LPR cameras and People
- counting cameras
- Supports POS function

**EasyIP 3.0****76/77xxNI-K Series**

- H.265+/H.265/H.264+/H.264 self-adapting decoding
- Up to 2 channels of 4K / 8 channels of 1080P resolution decoding
- 256/160/80 Mbps input bandwidth
- 32/16/8/4-ch IP cameras inputs
- 4/2 SATA interfaces
- 16/8/4-ch PoE support, and Up to 300m PoE distance
- Supports VCA cameras

**EasyIP 2.0****76/77xxNI-E Series**

- H.264+/H.264 self-adapting decoding
- Up to 6 channels of 1080P resolution decoding
- 160/80 Mbps input bandwidth
- 32/16/8/4-ch IP cameras inputs
- 4/2/1 SATA interfaces
- 16/8/4-ch PoE support
- Supports VCA cameras



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