

NVR+ IP Surveillance System

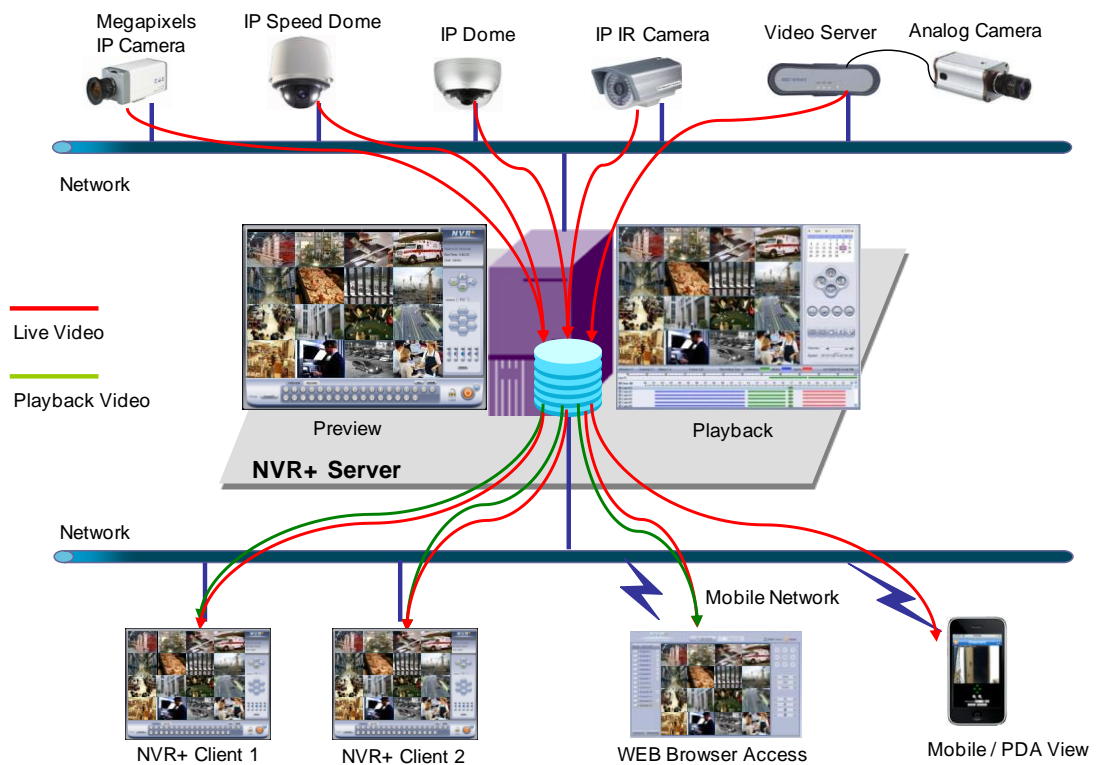
Overview

NVR+ IP Surveillance system is a professional network video management system to record audio and video over TCP/IP Networks. It can work with multiple brands of IP device comprising of hundreds of models, including Megapixel IP Cameras, IP Box Cameras, IP IR Cameras, IP Dome Cameras, IP Speed Dome Cameras, Video Servers and Standalone DVRs all at once.

With the built-in mobile streaming module and feature-rich NVR+ Client, customers can reach video surveillance data from any location at any time using a desktop computer, laptop or PDA/mobile phones.

Featured with user-friendly operation, powerful recording strategy and video analytic, NVR+ IP Surveillance system provides a scalable, intelligent and cost-effective solution, managing from 1 to 64 channels depending on customer's needs.

System Architecture



Main Modules

Component	Description
NVR+ Record Server	<p>The NVR+ Record Server is the core component of the NVR+ IP Surveillance system.</p> <p>It has several functions:</p> <ul style="list-style-type: none"> ➤ Connection to each IP camera and IP video server ➤ Recording of video and audio ➤ Receive events and activate pre-defined alerts and actions ➤ Host and control access from NVR+ clients ➤ Logging of activity <p>NVR+ Record Server is running at system backend with pre-defined recording strategies.</p>
NVR+ Viewer	<p>The NVR+ Viewer provide a graphic interface for system operators or administrators to do all the daily operations, such as live view, video playback, PTZ control, intelligent search functions and backup of evidence material.</p> <p>The NVR+ Viewer is directly attached to the NVR+ Record server.</p>
NVR+ Mobile Server	<p>The NVR+ Mobile Server is a built-in video streaming gateway for mobile phone / PDA / WEB Browser access.</p> <p>It transforms protected high-bandwidth stream from NVR+ Record Server to</p> <ul style="list-style-type: none"> - Standard RTSP stream suitable for PDA live view and WEB Browser access; - Motion pictures suitable for most of normal mobile phones <p>The NVR+ Mobile Server can be directly attached to the NVR+ Record Server, or install separately.</p>
NVR+ Client	<p>The NVR+ Client allow system operators or administrators to do all the daily operations remotely, such as remote live view, remote simultaneously playback up to 36 channels, PTZ control, intelligent search functions and backup of evidence material.</p>
WEB IE Client	<p>This WEB IE client provides a very convenient way for users to access NVR+ server through IE browser. It supports remote preview / playback /PTZ control operations.</p>

Outstanding Features

System

- Manage up to 64 IP cameras in one PC.
- Dependable, robust and stable system with fully modularized architecture design.
- Forward multiple streams to adapt to different network conditions;
 - Local Stream for high definition video recording
 - Network Stream for fluent remote access
 - Mobile Stream for PDA/mobile view and any web browser access (**unique feature**)
- Multiple monitors display, live view / playback / e-map can be display on separated monitors
- Complete system & event log database
- Run as Standard Windows Service mode (**optional feature**)

Monitoring

- Realtime monitoring
- Standard 1/4/6/9/10/13/16/19/22/25/33/36/49/64-screen view
- Freely custom screen layout (**unique feature**)
- Group cycle view
- Automatically adapt to different monitor resolution
- Built-in PTZ control Panel, support call and set preset / cruise plans, and also support mouse control PTZ movement directly on video screen.
- Support to connect computer mini keyboard or PTZ keyboard to control PTZ camera directly on keyboard.
- Multiple monitors display, each monitor can set screen layout individually, and drag-and-drop camera video between monitors. It supports as many monitors as number of VGA outputs in the computer (**unique feature**)
- Digital zooming (**new**)
- Real-time multiple events monitoring and filter
- Instant response modes, On Monitor, Recording, PTZ Preset Reaction, Audio, SMS, Email, alarm IO Device, snapshot.
- Support digital matrix output to 2 to 8 analog monitors (requires matrix & decoding card)
- Instant Video Playback mode to playback last several minutes video in just one click (**new**)
- Advanced Video Playback mode to select site/channel/date/time and play video directly in preview window (**new**)
- Synchronous playback multiple cameras from multiple cameras at a time (**unique feature**)

Record

- Powerful and flexible storage strategies, can individually allocate storage space / reserve days to each channel(s). It is very useful to give important cameras bigger storage space.
- Support disk group management (new)
- Advanced disk pre-allocation technology to speed up video indexing and avoid disk fragment.
- Cameras recording at system backend, regardless viewing or not.
- Multi-zone motion detection recording with pre-event recording (this will help to record the complete motion event)
- Adjustable alarm recording quality, frame rate and resolution. For example, set CIF 10fps as normal continuous recording, and set 4CIF 25fps as motion detection recording.
- Flexible recording schedule, Continuous, Continuous + Event + Motion, Continuous + Event, Continuous + Motion, Event, Motion, Manual.

Playback

- Max. 36 channels synchronous playback in time-line graphic window (unique feature)
- Same intuitive playback GUI for local playback, remote playback, and backup file playback.
- Intelligent search for easy locating of motion events in recorded files.
- Icon playback mode to thumb view archived video in defined time interval (new)
- Digital zooming
- Play speed control, ¼x, ½x, 1x, 2x, 4x, 8x, 16x
- Snapshot picture and pictures browsing
- Support frame by frame playback
- Multiple backup modes, USB stick, USB HDD, DVD/CD-RW, etc.

Alarm

- Alarm sensor input / relay output control (requires IO card)
- Alarm action to PTZ preset, recording, SMS, email, alarm relay, etc.
- Support alarm email with snapshots picture through Gmail account
- Intuitive Event-to-Action settings window (new)
- Support automatically video popup when alarm event is activated. (new)

Remote access

- Provide IE WEB Client to remote live view and playback.
- Provide feature-rich NVR+ Client application to manage multiple servers from multiple locations

- Monitoring max. 128 channels from multiple servers at the same time
- Max. 36 channels synchronous playback (same GUI screen as in NVR+ Server) (unique feature)
- Provide live stream view for PDA/mobile access.
- Provide motion pictures view for most of the mobile phones (no software installation on mobile phone is required) (unique feature)
- Access NVR+ Server from most of the WEB browsers, such as, Windows IE, Mozilla Firefox, Google Chrome, Opera, etc.

Intelligent Analytics

- Intelligent search for easy locating of motion events in recorded files.
- Face detection and recognition (demo feature only)

System integration

- POS/ATM machine integration
 - Support max 64 POS/ATM machines
 - POS connection through TCP/IP network, or directly RS-232 COM cable connection
 - Overlay Display POS/ATM data on Analog/IP channel
 - Intuitive POS/ATM event search/playback operations
 - Built-in tens of popular POS protocols already
- Access Control System integration (requires customization development)

Languages supported now

- English
- French
- Russian
- Danish
- Polish
- Italian
- Chinese
- Traditional Chinese
- more languages will be ready soon

Supported DVR/IP cameras brands:



more brands coming soon

Compatible OS

- Windows 2000/XP/Vista/2008, Windows 7

PC Requirements

- Motherboard: most of mainstream motherboards;
- CPU: Intel Pentium 2.4 or higher.
- Memory: 1G or higher.
- Hard disk: 100G or higher

Note: the higher PC configuration more IP cameras connected.

License Registration of software

System supports two registration modes (can choose one of them):

1. By USB dongle key, which has included software license already;

Benefits

- Easier to use, no need to read device/card serial number, no need to import license file.
- No need to change USB dongle key even when you replace the IP device or DVR cards.

Disadvantages

- Each USB dongle has fixed number of license key, and can not expand it.
- USB dongle key is a hardware component, it has shipping cost and delivery time.

2. By license file, which is registered according to device serial number (no USB dongle will be required).

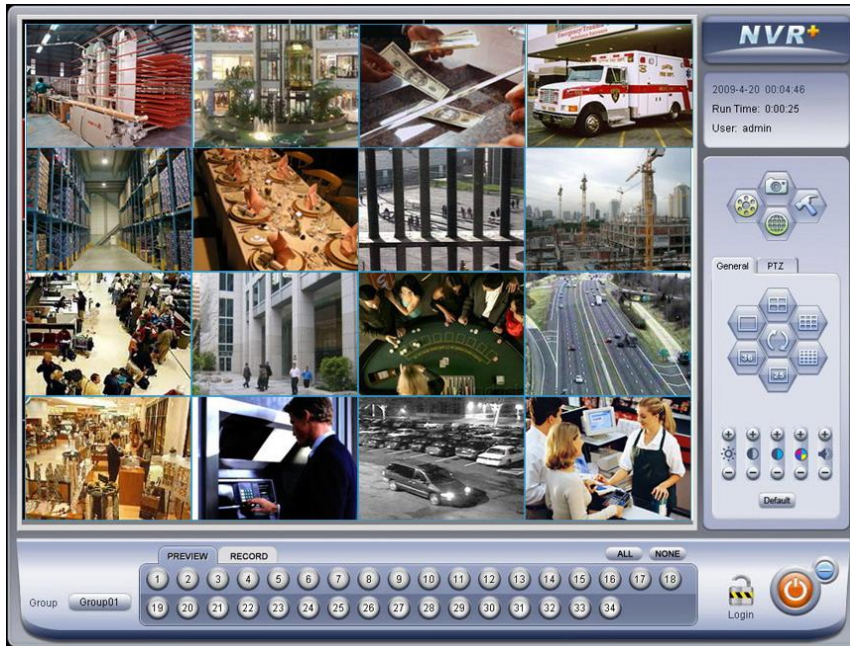
Benefits

- Easy to Get: reduce shipping fee & time
- Flexibility and Expandable

Disadvantages

- When the IP device or DVR card number has been changed, you have to get the updated license file.

Software Screenshots



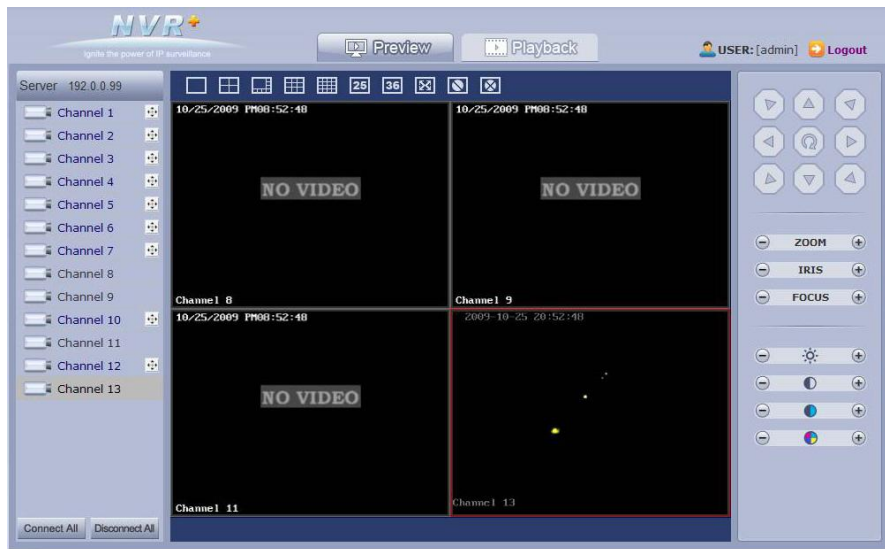
NVR+ Server Main GUI (same to NVR+ Client)



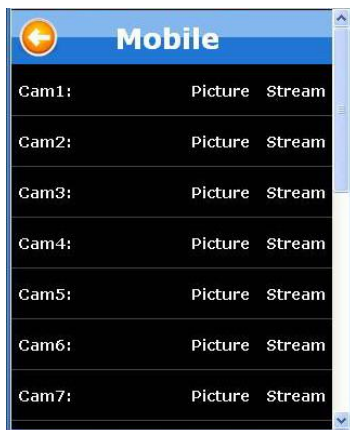
Local Playback GUI (Same to Remote Playback GUI)



Intelligent Search to easily locating motion recordings in recorded files



WEB IE Client



Mobile login page



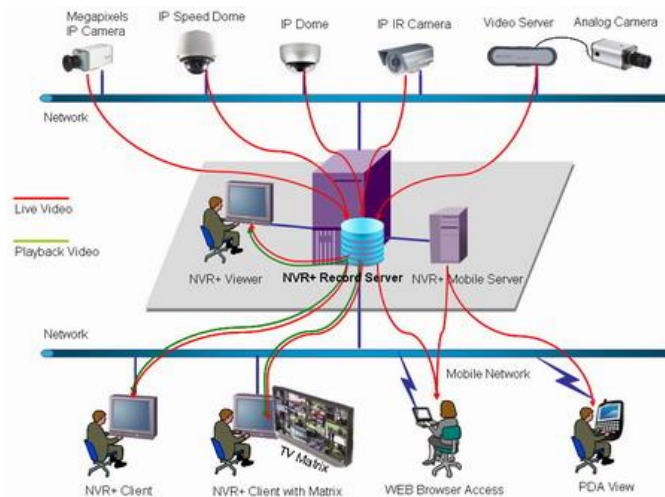
Mobile Live View

Application

The deployment of NVR+ IP Surveillance System is very flexible. You can install it in a single server to support max. 64channels IP & analog cameras, or deploy it in multiple servers, with each support max. 64channels, and access all the NVR+ servers in a single NVR+ Client remotely. Moreover, the NVR+ System can also support cascade deployment, thus record video to distributed servers.

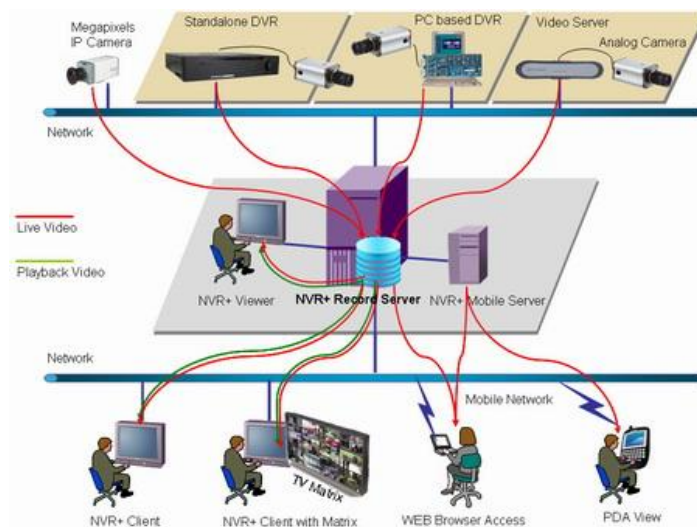
NVR+ IP System can manage not only IP cameras and video servers, but also standalone DVR and PC based DVR. It means that you can deploy PC based DVR / Standalone DVR / IP Camera / Video Server in end site according to the real requirements, and be managed and recorded in one central NVR+ Server.

Single Server Deployment



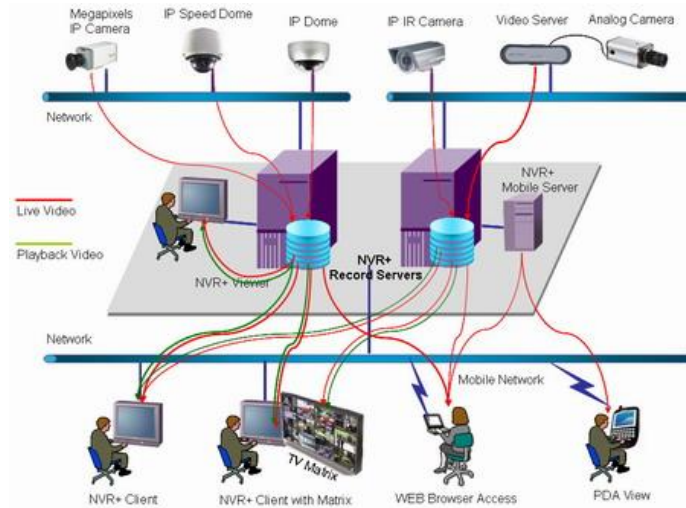
Single Server Deployment is suitable for small-to-medium-sized installations with up to 64 IP cameras.

Full Equipment Integration



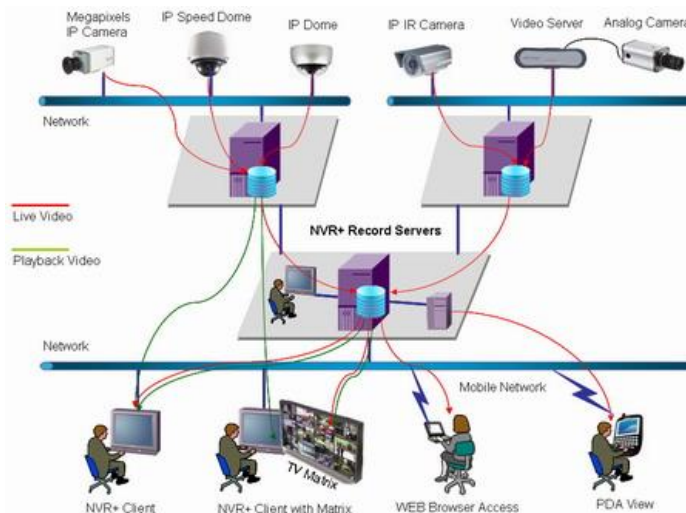
In each end site, customer can use different kind of DVRs/IP Device to best suitable this site's requirements, and all of the DVRs/IP Device can be recorded and managed in a single NVR+ Server.

Multiple Servers Deployment



The distributed server architecture allows you to place recording servers in the networks where the cameras are actually connected. The benefit is optimized bandwidth usage. And all the recording servers can be accessed / managed through a single NVR+ Client computer.

Server Cascade Deployment



In Cascade Deployment, IP cameras can be recorded in distributed recording servers. The benefits are increased system security and optimized bandwidth usage.