Moxa SoftNVR™ IP Surveillance Software Quick Installation Guide

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NOTE: This User's Guide describes basic installation and operation procedures for SoftNVR™ IP Surveillance Software. Refer to the SoftNVR™ IP Surveillance Software User's Manual for more details about using this software.

Moxa SoftNVR™ IP Surveillance Software Quick Installation Guide

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Product Information

Overview

Moxa SoftNVR IP surveillance software is a network video recording system that can manage up to 64 video channels generated by VPort series products (except for the VPort 2000 series, and VPort 3310) simultaneously. Features include dual monitor display, video analysis, instant alarms, event recording, and video enhancement tools. SoftNVR gives users an advanced video management tool for medium to large video surveillance networking systems.

SoftNVR includes 6 models:

SoftNVR-4
Expandable IP surveillance software for managing up to 4 video channels

SoftNVR-8
Expandable IP surveillance software for managing up to 8 video channels

SoftNVR-16
Expandable IP surveillance software for managing up to 16 video channels

SoftNVR-25
Expandable IP surveillance software for managing up to 25 video channels

SoftNVR-32
Expandable IP surveillance software for managing up to 32 video channels

SoftNVR-64
Expandable IP surveillance software for managing up to 64 video channels

Features

Live Display

- Display up to 64 channels under several modes and full screen.
- Dual monitor display:
  - Focus on important areas: users can set one screen to monitor general cameras and another one to monitor more important cameras.
  - Live view and playback at the same time: users can set one screen for live monitoring and another one for playback.
  - Spot monitor application: detected events can pop up in the secondary monitor while the primary one plays real-time video.
- Adjustable monitoring windows:
  - 1/4/6/9/10/13/16/25/36/49/64 divided windows with full screen and rotating display function.
- Multiple Show:
  - Supports different camera viewpoints from a single video source.

PTZ Control

- PTZ preset point:
  - Saves the definition of the PTZ camera lens as a preset point, allowing the camera to move quickly to a preset location.
- Patrol:
  - Allows the camera to patrol along a path of combined preset points.
- Digital PTZ:
  - Focuses anywhere you want to highlight in the video.
  - Digital PTZ and Multiple Show can be used to focus anywhere you wish to highlight from a single video source.

Smart Detection

- Smart detection of 9 different events:
  - General Motion
  - Missing Object
  - Foreign Object
  - Lose Focus
  - Camera Occlusion
  - Signal Lost
  - Signal Digital Input

  - System Alarm at Disk Space Exhausted
  - System Alarm at System Health Unusual
- Instant response for event detection:
  - On Screen Display
  - Play Sound
  - Send E-mail
  - PTZ Preset Go
  - Signal Digital Output

Recording and Scheduling

- Video compression – MPEG4, and M-JPEG
- Audio & video recording in synchronization
- Auto recycling when storage disk is full
- Recording mode – continuous record, record by event, record by digital input, record by motion, record by schedule, and manual record
- Recording schedule – record by daily, weekly, or repeat schedules
- Video and images can be saved in external storage devices such like DAS, NAS and SAN without any limitation for future expansion

Playback & Search

- Playback up to 16 channels under several modes and full screen
- Intelligent search and smart search mode by event, area, cameras, date, time and log file
- Administrators can set the path for the recording database without any limitation
- Storage devices can be expanded without any problems or limitations
- Easily search the period of recording data and unusual events with a click of a button to efficiently retrieve recording information
- Complete playback control: playback, backward playback, fast forward/ backward playback
- Digitally zoom into a specific area
- Export video to AVI and ASF files
- Export single frame to BMP and JPEG files and print out
- Back up video by burning to a disk and onto a hard drive
- Video enhancement – visibility, sharpen, brightness, contract, gray scale

Remote Access

- Remote Live View by client software and web browser
- Remote playback by client software and web browser
- Remote control PTZ camera

System

- User-friendly control interface–without complicated control windows, easy to use for anyone with basic computer knowledge.
- Administrators can automatically log in from a specific account and enable, add, edit and delete users without any limitation. Access privileges can be set for each user.
- Only users in the administrator group can exit the Main Console.
- Monitor accounts, login time, flow rate and IP addresses, as well as information for remote control access.
- Log data: unusual events, system logs, and counting applications can export to "xls" or "txt" file.
- Execute recording, smart guard, and more in the background after logging out of the system.

System Requirements

Total FPS at CIF	Under 600	600 to 480	480 to 240	240 to 120	Over 120
CPU	Intel Core 2 Duo QX6700	Intel Core 2 Duo E6400	Intel Pentium D 930	Intel P4 2.8 GHz	Intel P4 2.4 GHz
RAM	2 GB	1 GB	1 GB	512 MB	512 MB
Mother--board	Intel 945 or 965 chip, Intel Chipset recommended				
Display	ATI Radeon 9200, nVIDIA GeForce FX-5200, Intel 945 / 965, or above (ATI recommended)				
Ethernet	100 BaseT or Above, Gigabit LAN Recommended				
Hard Disk	80 GB or above				
OS	MS Windows 2000 / XP Pro SP2 / 2003				

NOTE The system requirements listed above are the minimum requirements needed to run SoftNVR smoothly based on the resolution and frame rate requirements. For better video performance, such as when viewing and recording video images, use a hardware environment with a better video card, more memory, and better computing power.

NOTE Since a video surveillance system uses a great deal of system resources, we strongly recommend that you use a dedicated server to run SoftNVR™ for video surveillance purposes.

NOTE Since there are so many diversified PC specifications, we have provided the following specifications for the desktop PC we used for testing SoftNVR's functions.

- PC: Dell Inspiration 530 Desktop
- CPU: Intel Core 2 Duo QX6600 (2.4GHz, 8MB cache, 1066MHz FSB)
- Memory: 4GB (4XiGB), NECC dual channel, DDR2 667MHz SDRAM
- Video Card: 256MB PCIe x 16 NVidia GeForce 8600GT
- Harddrive: 250GB SATA 3.0GB/s (with NCQ)
- OS: Windows XP SP2

These PC specifications are for the user's reference if the PC specifications haven't been decided. The purpose of this recommendation is to minimize system conflict issues since these specifications have been verified by our test lab.

SoftNVR Package Contents

- Software CD
- Quick Installation Guide
- USB Key Pro

Release Notes

SoftNVR

Version 3.0

Date 2008/12/15

Release Note

- Newly released

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SoftNVR™ Installation

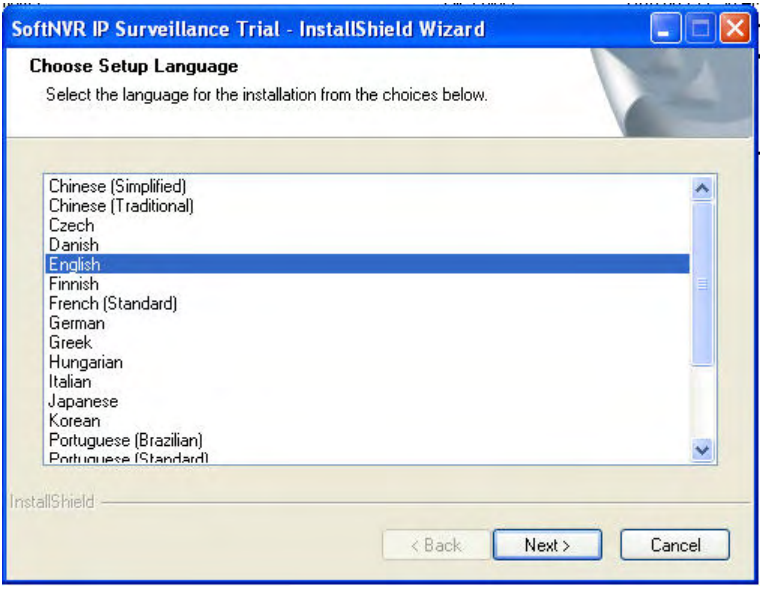
Before Installing the Software

1. Make sure your PC has DirectX 9.0C or above installed.

Starting the Installation

Step 1: Insert the Installation CD.

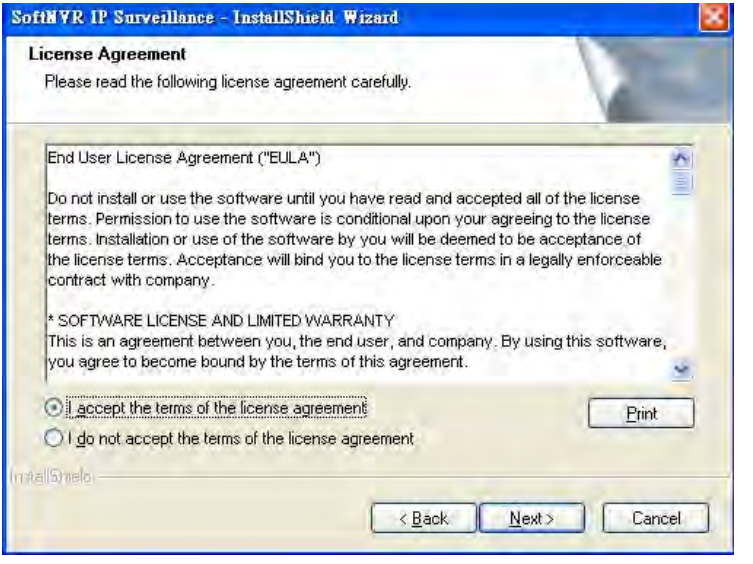
Step 2: Run Setup.exe from the CD-ROM directory to install. A Language Selection table will pop up. Select the language you want to install for SoftNVR.



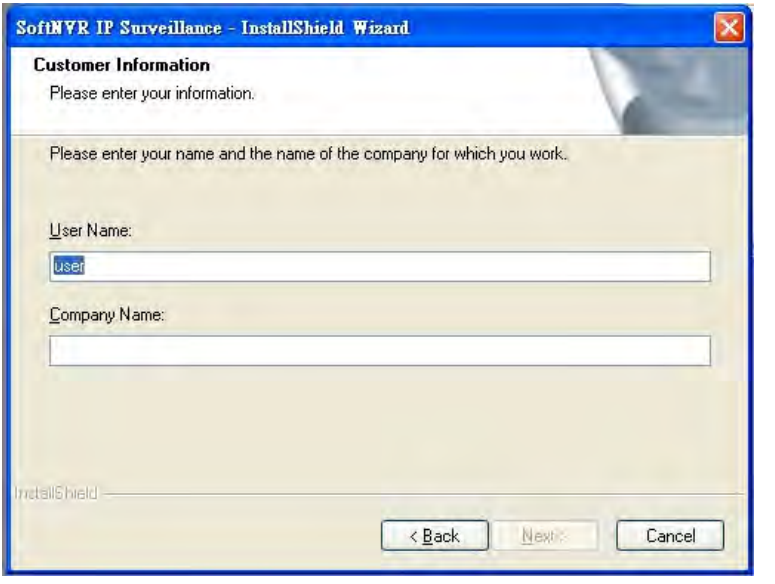
ATTENTION

SoftNVR supports 22 languages, including **English, Traditional Chinese, Simplified Chinese, Japanese, French, Spanish, German, Italian, Turkish, Danish, Hungarian, Greece, Finnish, Russian, Thai, Czech, Slovak, Korean, Portuguese, Portuguese (Brazil), Hebrew,** and **Persian (Farsi)**.

Step 3: Select “I accept the terms of the license agreement” and click **Next** to continue.



Step 4: Enter your user name and company name.

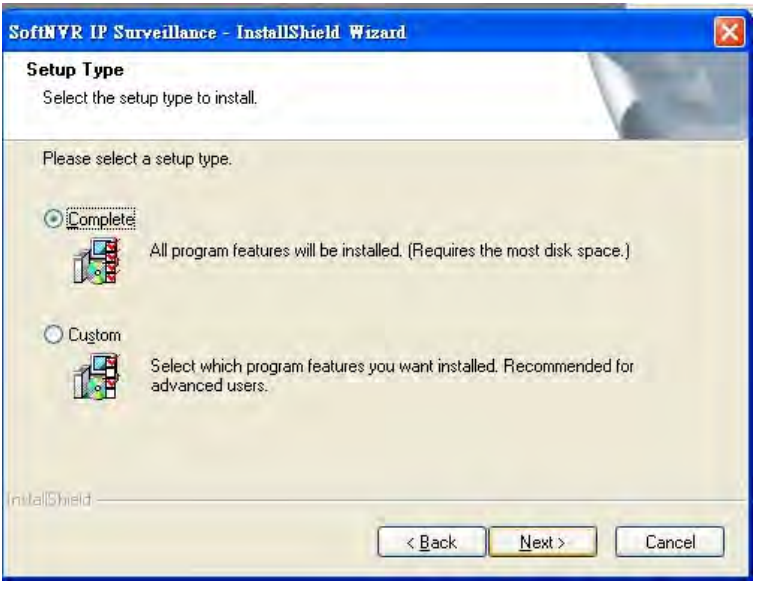


Step 5: Select the installation type.

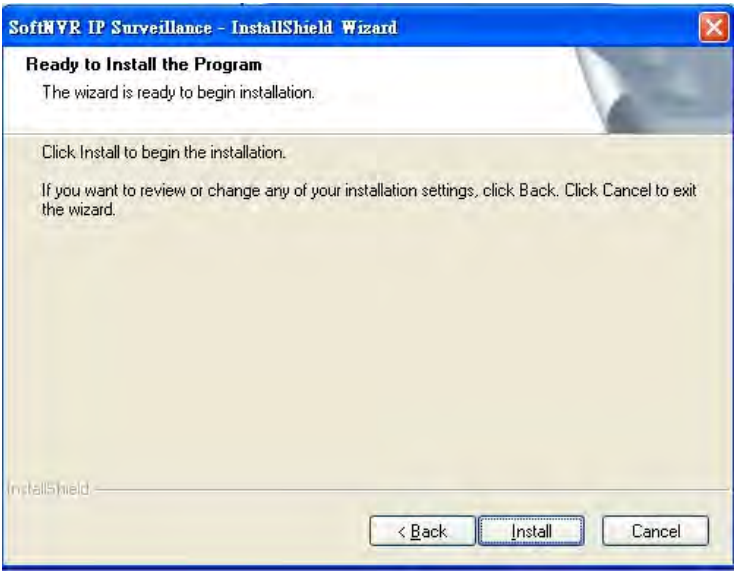
COMPLETE SETUP TYPE:

Install all program features into the default directory.

- Select “Complete” and click **Next** to continue. All program features will be installed so this type requires the most disk space.



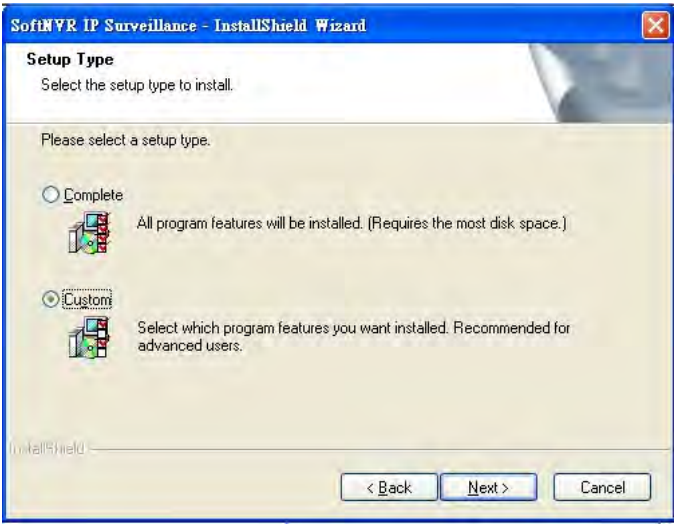
- Click **Install** to begin installation.



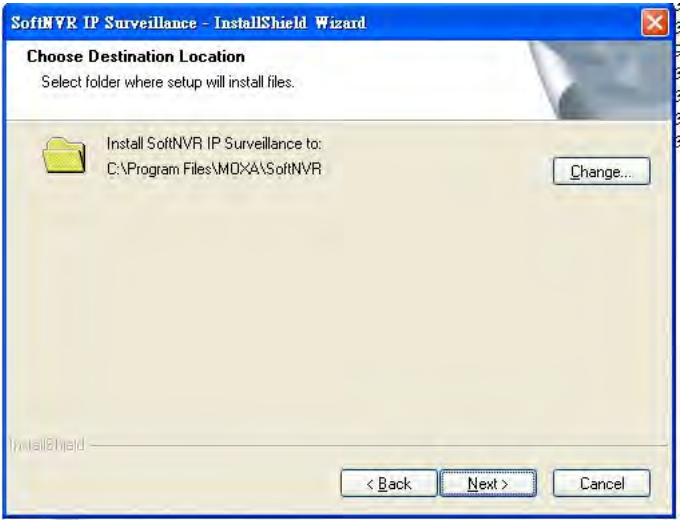
CUSTOM SETUP TYPE:

Install the system to a preferred directory or choose specific feature(s) you wish to install.

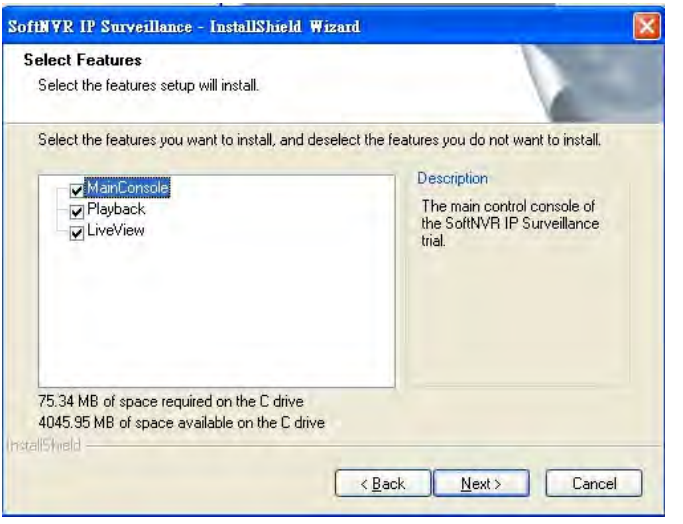
- Select **Custom** and click **Next** to continue. Choose the program features you want to install. This is recommended for advanced users.



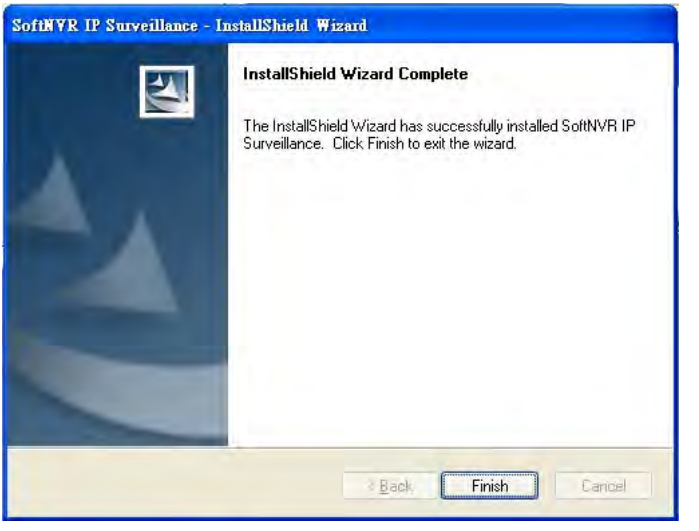
- Select the folder where Setup will install the files.



- Select the features for Setup to install. For example, selecting only Playback and LiveView will only install these features.



Step 6: Click **Finish** to complete installation.



Step 7: Run the Main Console.

Step 8: Enter and confirm the password you wish to use and the click **OK** to begin using SoftNVR.

USB KEY Pro

The “Key Pro” located in your CD box must be plugged into your computer’s USB port to enable SoftNVR to operate correctly. The driver is automatically installed when installing SoftNVR.

NOTE The USB Key Pro protects the SoftNVR license and does not influence the normal function of the PC or server.

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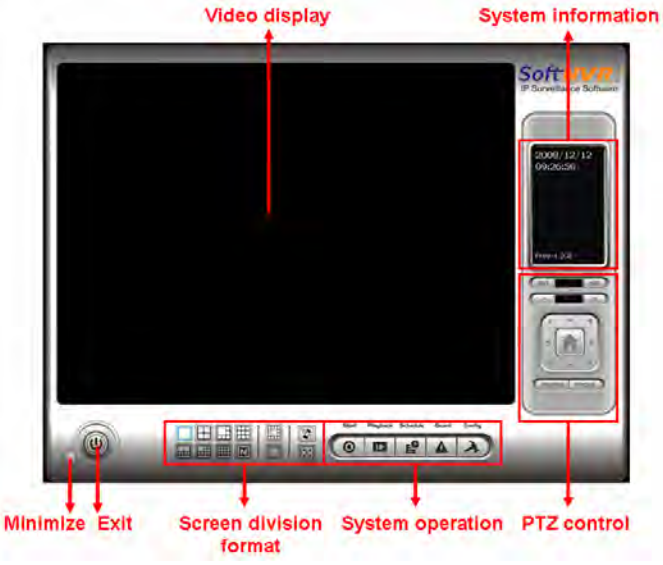
SoftNVR™ General Operation

Authentication

When running SoftNVR's main console, use the **User Name** and **Password** assigned by the administrator. Administrators should type **admin** for the User Name, and then type the corresponding Password. Click **OK** to continue.

NOTE If this is the first time the administrator is accessing SoftNVR, the password will be blank.

Main Console

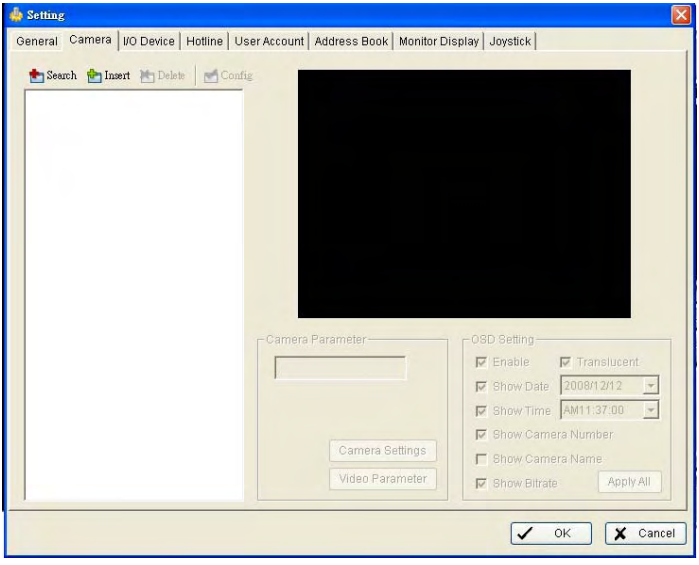


Add Camera(s)

Step 1: Go to **Start** → **All Programs** → **SoftNVR IP Surveillance** → **Main Console**.

Step 2: Enter your user name and password to log into the system.

Step 3: In Main Console, go to **Config** → **Setting** to obtain the Setting panel.



Step 4: Select the **Camera** tab.

If your IP cameras support UPnP, follow Step 5. Otherwise, skip to Step 8.

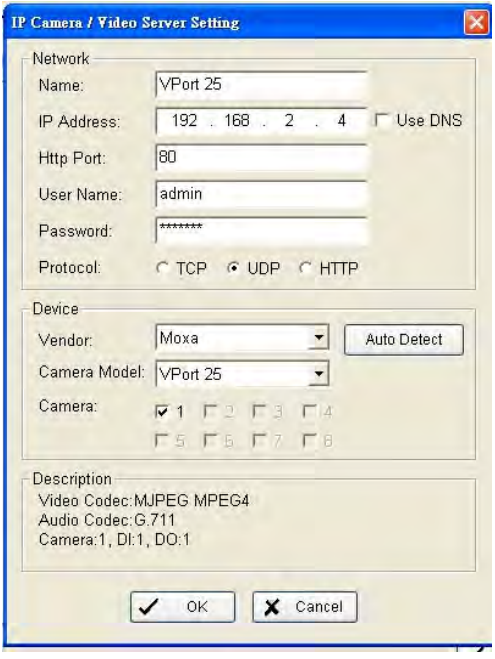
Step 5: Click **Search** to search for available IP cameras.

NOTE Enable the VPort's UPnP function to ensure that SoftNVR can find it.

Step 6: Select one of the available IP cameras. Check the option and enter the username and password.

Step 7: Click **OK** to add the camera.

Step 8: If the camera is not listed in the Search list, click **Insert** to insert the IP cameras.



Step 9: Enter the IP address or domain name (check the "Use DNS" option), Http Port, Username, and Password.

Step 10: Click "Auto Detect"

Step 11: Click **OK** to add the camera.

Step 12: Click **OK** to exit the Setting panel.

NOTE The Search function can only search for the device by IP address. So if there is a 4-channel video encoder being searched, only the video camera in the first channel will be listed. The administrator can use the Insert function to add the other 3 video cameras manually.

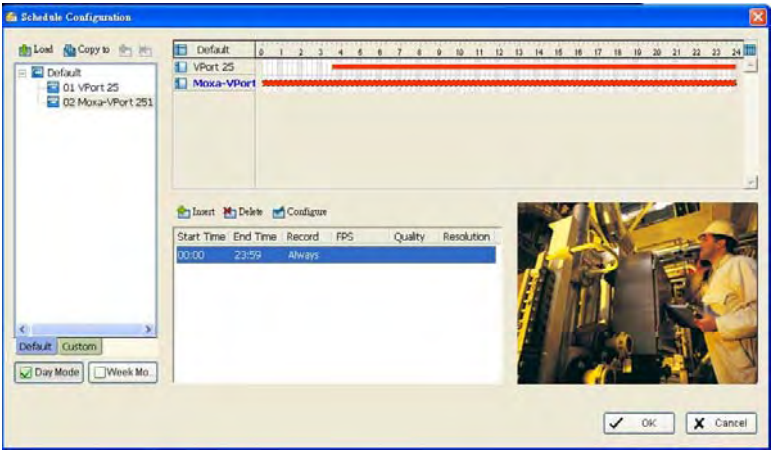
Set Schedule

Step 1: Go to **Start** → **All Programs** → **SoftNVR IP Surveillance** → **Main Console**

Step 2: Enter your user name and password to log into the system.

Step 3: In the Main Console, go to Schedule.

Step 4: When adding a camera to the system, the default recording schedule is set to continuously record 24 hours a day.



Step 5: Click **Configure** on the selected camera schedule or double click on any schedule bar to modify the recording mode.

Step 6: When satisfied with the schedule setting, click **OK** to update the recording schedule.

Step 7: Click **OK** again to go back to the Main Console.

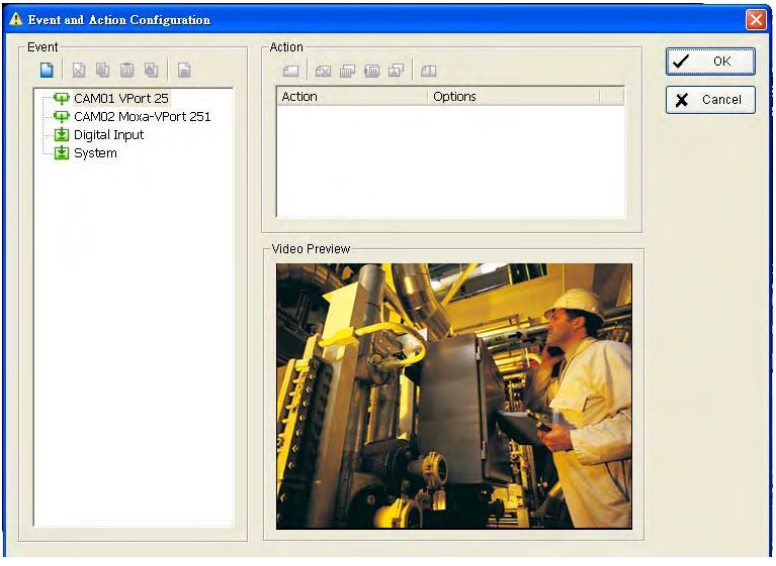
Set Smart Guard

Step 1: Go to **Start → All Programs → SoftNVR IP Surveillance → Main Console**

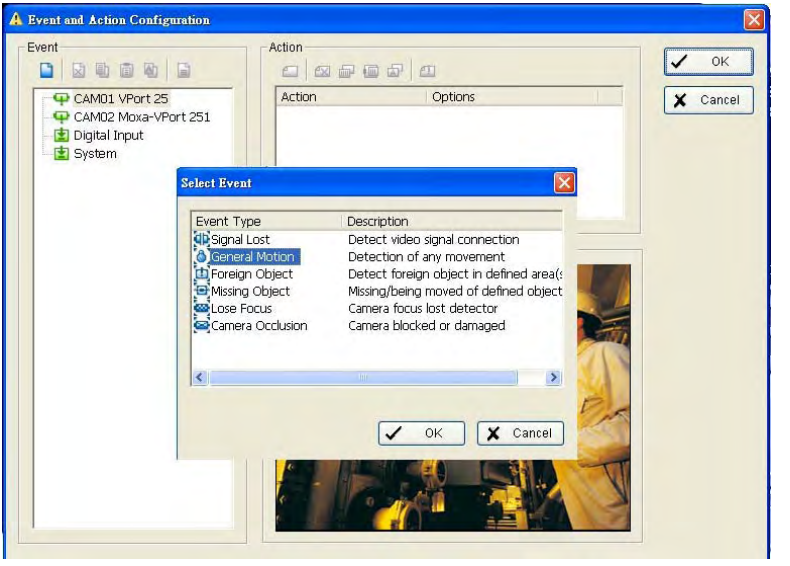
Step 2: Enter your user name and password to log into the system.

Step 3: In the Main Console, go to Guard.

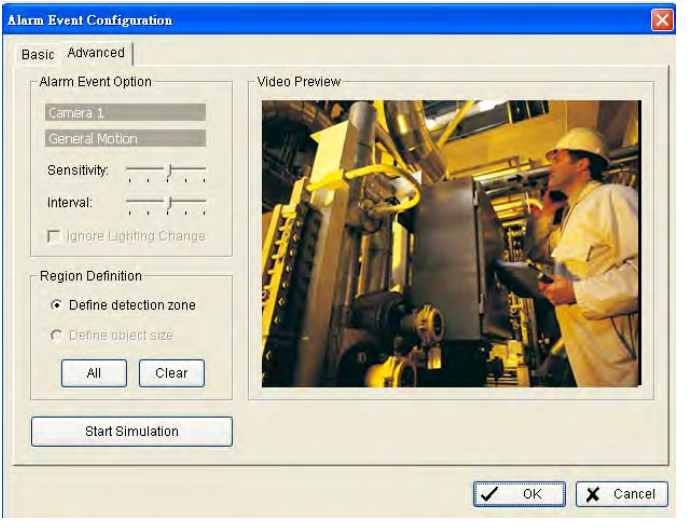
Step 4: Select a camera and then click on **Insert Event**.



Step 5: Select **General Motion** as the event type, click **OK**.



Step 6: In the Alarm Event Configuration panel, set the detection zone as all, and then click **OK** to exit the panel.



Step 7: Click **OK** to go back to the Main Console.

Start Recording & Smart Guard

Step 1: Go to **Start → All Programs → SoftNVR IP Surveillance → Main Console**

Step 2: Enter your user name and password to log into the system.

Step 3: In the Main Console, go to Start.

Step 4: Click on **Start Recoding Schedule** and **Start Smart Guard System** to initiate the two functions.

Playback

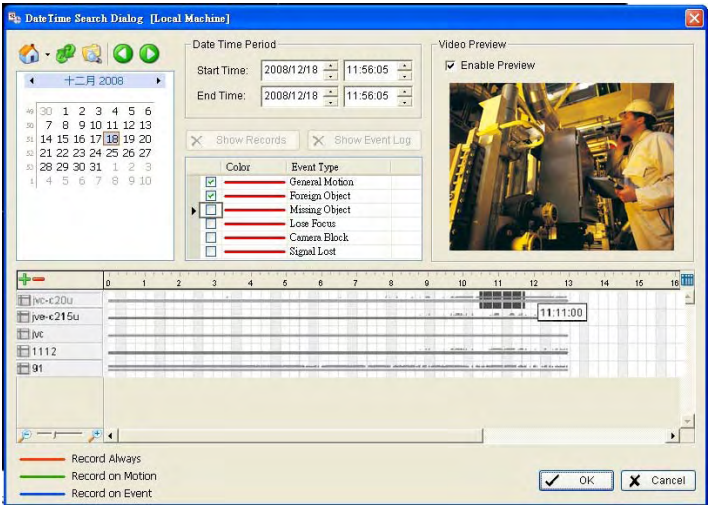
Step 1: Go to **Start → All Programs → SoftNVR IP Surveillance → Main Console**.

Step 2: Enter your user name and password to log into the system.

Step 3: In the Main Console, go to Playback.

Step 4: In the Playback window, click on the Open Record icon.

Step 5: In the time table, recorded files are displayed in color bars. Highlight any color bar to select a playback section. Click **OK** to return to the Playback Console.



Step 6: The recorded files are now ready to view.

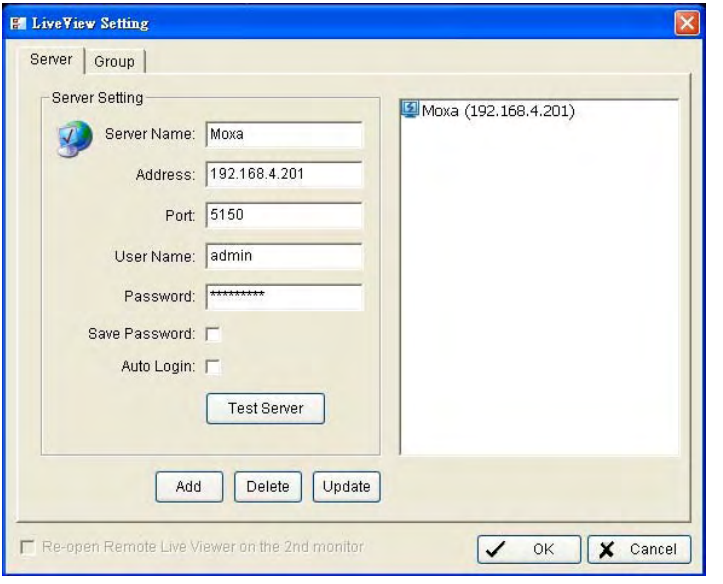
Remote Live Viewer

With the Remote Live Viewer, remote users can watch real-time video from remote live stream servers.

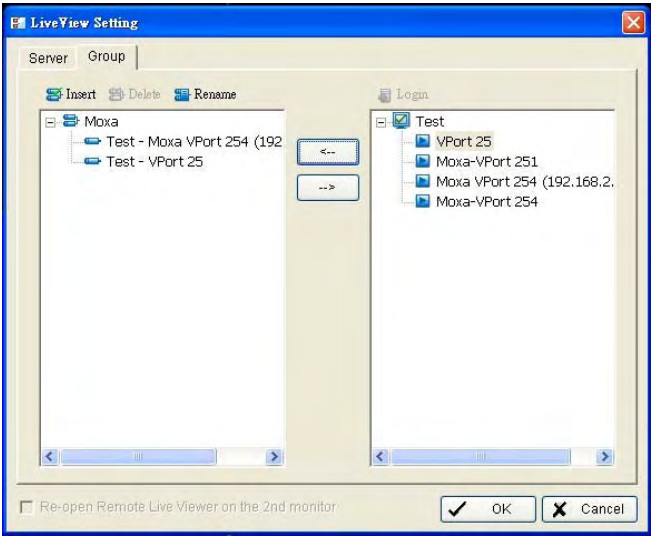
NOTE To use the remote live view function, users must enable the Live Stream Server under **Network Service** settings in the Main Console. Please check the User's Manual for more details.

Step 1: Go to **Start** → **All Programs** → **SoftNVR IP Surveillance** → **Remote Live Viewer**

Step 2: Click on the setup icon to obtain the setup panel. Then, set up the server name, IP address, HTTP port, user name, and password to add the Remote Live Server.



Step 3: Click Insert to add a new group. Then add the cameras for the listed servers to this group. After it is done, click **OK**.



Step 4: In the main screen, choose the Server or Group to select the cameras for remote live video or remote playback.

Web View

Users also can view the remote live video or playback from a web browser.

NOTE To use the web view function, users must enable the Live Stream Server in the **Network Service** settings in the Main Console. Please check the User's Manual for more details.

Step 1: Open an Internet Explorer browser and enter the IP address or DDNS "name" of the server followed by the connecting port. Example: http://192.168.1.16:8080/

Step 2: Click the **Remote Live Viewer** icon to use the remote live view function.

Step 3: Click the **Remote Playback** icon to use remote playback functions.

Uninstall

Use the **Uninstall** function in the SoftNVR program list to remove SoftNVR.

NOTE Uninstalling only removes the main SoftNVR files. The system settings and database will be kept in the folder **Program Files/Moxa/SoftNVR**. To remove the software completely, delete this folder.