

# Moxa SoftDVR™ Pro IP Surveillance Software Quick Installation Guide

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Fifth Edition, June 2008

[www.moxa.com/product](http://www.moxa.com/product)



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NOTE: This User's Guide describes basic installation and operation procedures for SoftDVR™ IP Surveillance Software. Refer to the SoftDVR™ Pro/Lite IP Surveillance Software User's Manual, which can be downloaded from Moxa's website, for more details about using this software.

# Moxa SoftDVR™ Pro IP Surveillance Software Quick Installation Guide

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## Overview

Moxa SoftDVR™ IP Surveillance Software is designed for IP Surveillance systems that use Moxa VPort series Video Servers as a Distributed Video Networking solution. System integrators can use Moxa SoftDVR™ to integrate other applications, such as I/O sensors and alarms, with CCTV systems over an IP-based network.

The Moxa SoftDVR™ IP Surveillance Software comes in two versions:

### SoftDVR™ Lite (Single-PC version)

- Up to 4 channels (quad), with video viewing, recording, camera control, video motion detection, scheduling, and user authorization management.
- Bundled free with VPort Series Video Servers, and available for download at [http://web4.moxa.com/support/download\\_center.asp](http://web4.moxa.com/support/download_center.asp)

### SoftDVR™ Pro (Network version)

- Up to 16 channels, with complete video management, alarm message management, and system administration
- Sold separately—includes the SoftDVR™ Pro software and a detailed User's Manual  
(To purchase the Moxa SoftDVR™ Pro IP Surveillance Software, contact your Moxa sales representative for details.)

*NOTE: This User's Guide is mainly for SoftDVR™ Pro. For more information about SoftDVR™ Pro, go to [www.moxa.com/product/Video-over-IP\\_Products.htm](http://www.moxa.com/product/Video-over-IP_Products.htm) for a complete product introduction, and to download the SoftDVR™ Pro/Lite IP Surveillance User's Manual.*

## Typical Application



NOTE Remote access and I/O device management functions are available only with SoftDVR™ Pro.

## Features

### Administration Management and Video Server Control

- Supports Moxa VPort Series Video Servers
- Independent configuration of each camera's name, video quality, and video resolution
- Supports remote firmware upgrade
- User level protection by password (maximum 32 users)
- Supports PTZ camera controls
- Automatic resumption of viewing and recording after system reboot
- Easy camera management using your own e-map

## Viewing

- Supports 1, 4, 6, 8, 9, 10, 13, 16 camera viewing formats (maximum of 16 cameras in the list)
- Zoom-in/Zoom-out function for individual cameras when playing back images
- Synchronized video/audio viewing and recording (for VPort MPEG4 products)
- Triggered camera activation and recording, by schedule or event
- Historical playback by time or event
- JPEG snapshots in playback mode for printing or to save as evidence
- Image adjustment of snapshot image, including contrast, brightness, sharpness, blur, and greyscale

## Recording

- Recording can be triggered in round-the-clock, VMD (Video Motion Detection), or digital input mode
- Recorded video format can be selected as adjustable FPS MJPEG, or MPEG4 standard, for VPort MJPEG products
- Record video in AVI format—compatible with popular media players
- Recorded video files can be stored on a local PC or Windows-based networked storage server
- Save a vast amount of storage space by using MPEG4 compression to record video files
- Dynamically adjust recording frame rate over the LAN/Internet to match the real frame transmit speed to keep the video synchronized with the actual time
- Recyclable override of hard disk space in FIFO (First-In-First-Out) sequence

**NOTE** Since the VPort 2310 and VPort 3310 adopt the proprietary MPEG4 algorithm, users need to install the SMPV codec to play back videos on some media players. SMPV codec is already installed if you installed SoftDVR Pro/Lite. You may also download the SMPV codec (SoftDVRCodec.exe) from Moxa's website, or copy it off of the SoftDVR Pro software CD.

## Alarm

- Independently configurable Video Motion Detection (VMD) for each camera
- Selectable VMD area for each camera
- Multiple-trigger alarm—VMD, video failure, communication failure, system fault, storage failure, storage full, or GPI
- Multiple alarm response—send email or GPO, sound an alarm, or trigger a PTZ camera to a preset position
- Retrievable system log for historical system status

## System Requirements

### SoftDVR™ Pro

1. MS Windows XP recommended
2. Intel Dual Core, 2.0GHz or above
3. At least 1 GB of SDRAM
4. Nvidia GeForce or ATI TNT2 graphic card with 32 MB display memory or above
5. directX 9.0C or above

### SoftDVR™ Lite

1. MS Windows XP recommended
2. Intel Pentium 4 , 2.4 GHz HT(Hyper-Threading) or above
3. At least 512 MB of SDRAM
4. Nvidia GeForce or ATI TNT2 graphics card with 32 MB display memory or above
5. DirectX 9.0 or above

**NOTE** The system requirements listed above are the minimum requirements needed to run SoftDVR smoothly. For better video performance, such as when viewing and recording video images, use a HW environment with a better video card, more memory, and better computing power.

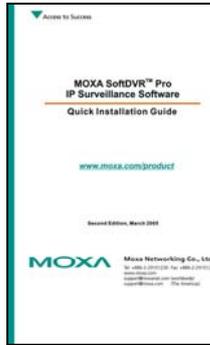
**NOTE** Since a video surveillance system uses a lot of system resources, we strongly recommend that you use a dedicated server to run SoftDVR™ Pro/Lite for video surveillance purposes.

## SoftDVR Pro Package Contents

- Software CD



- Quick Installation Guide



- Key Pro



## Release Notes

SoftDVR Pro V4.1

**Version** 4.1

**Date** 2007/11/15

### Release Note

- Supports the VPort 351 series of Industrial Video Encoders
- Supports SQL service for database management
- For better performance, upgrade to the following system requirements:
  - MS Windows XP recommended
  - Intel Dual Core, 2.0 GHz or above
  - At least 1 GB of SDRAM
  - Nvidia GeForce or ATI TNT2 video card with at least 32 MB of display memory
  - DirectX 9.0C or above

SoftDVR Lite V4.1

**Version** 4.1

**Date** 2007/11/15

### Release Note

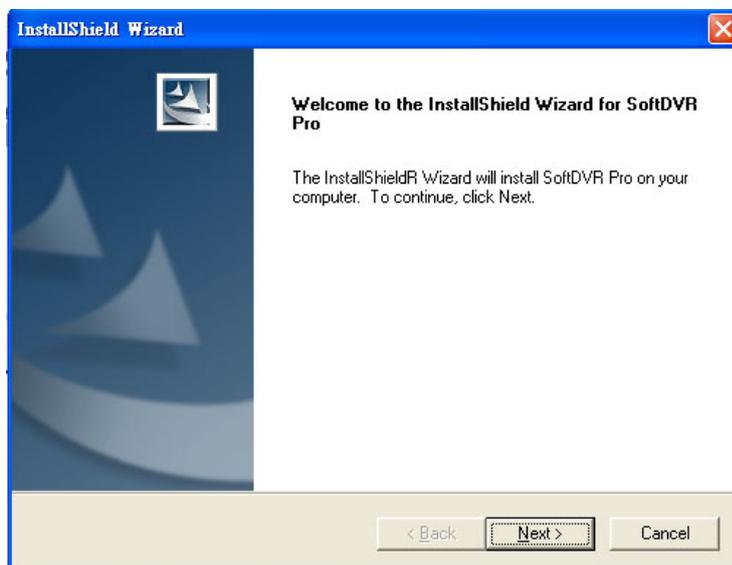
- Supports the VPort 351 series of Industrial Video Encoders
- For better performance, upgrade to the following system requirements:
  - MS Windows XP recommended
  - Intel Pentium 4 , 2.4 GHz HT (Hyper-Threading) or above
  - At least 512 MB of SDRAM
  - Nvidia GeForce or ATI TNT2 video card with at least 32 MB of display memory
  - DirectX 9.0 or above

## Before Installing the Software

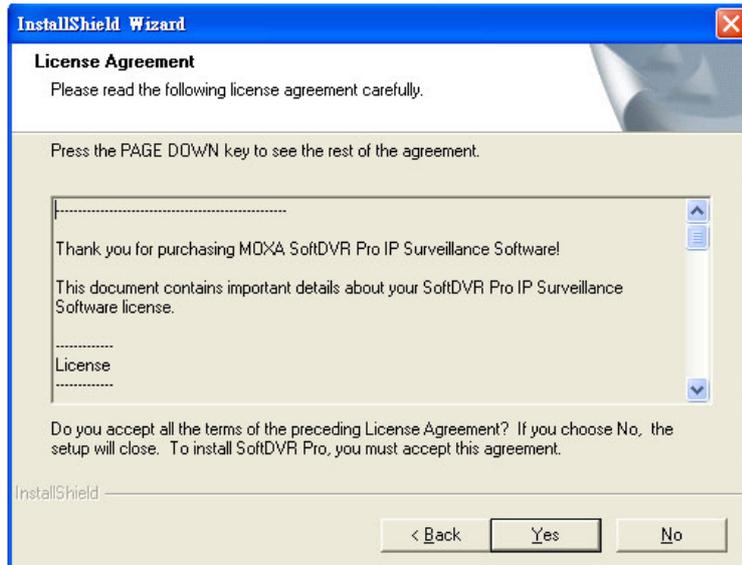
1. Make sure your PC has DirectX 9.0C or above installed.
2. Run the MSDE.exe to install the SQL service for database management. After that, please run the SoftDVRPro.exe for installing the SoftDVR Pro program.

## Starting the Installation

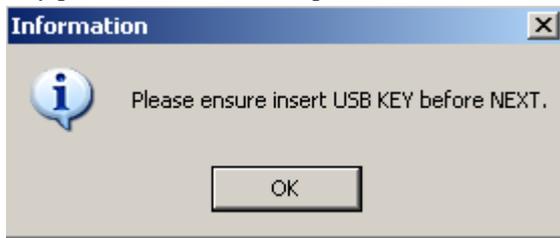
1. The **InstallShield Wizard** will start. Click on **Next** to continue.



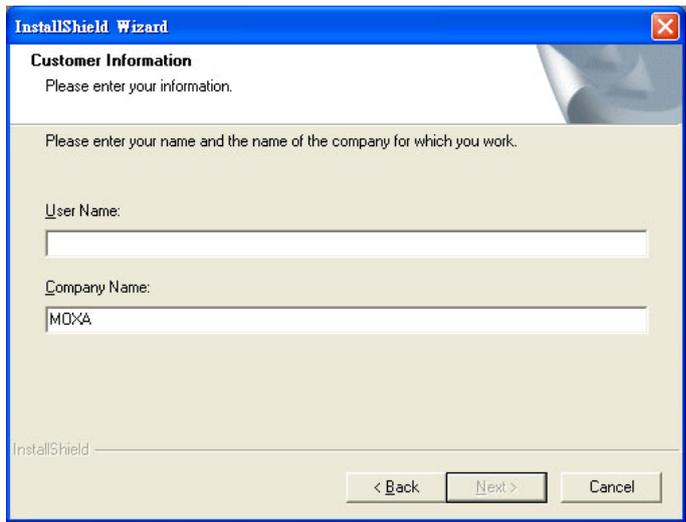
2. The **License Agreement** window will open next. Click on **Yes** to continue.



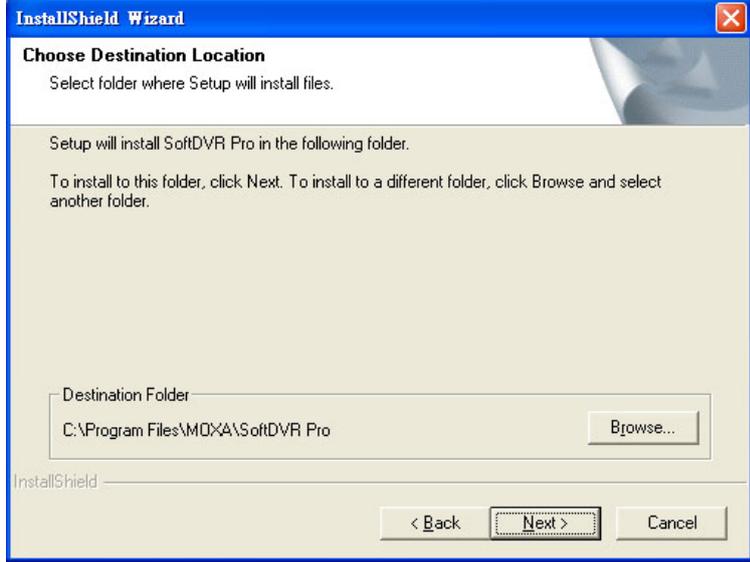
3. Insert the USB KEY when the Information pop-up window appears. The USB Key pro can be found in the product box.



4. Type in the **User Name**, and **Company Name**.



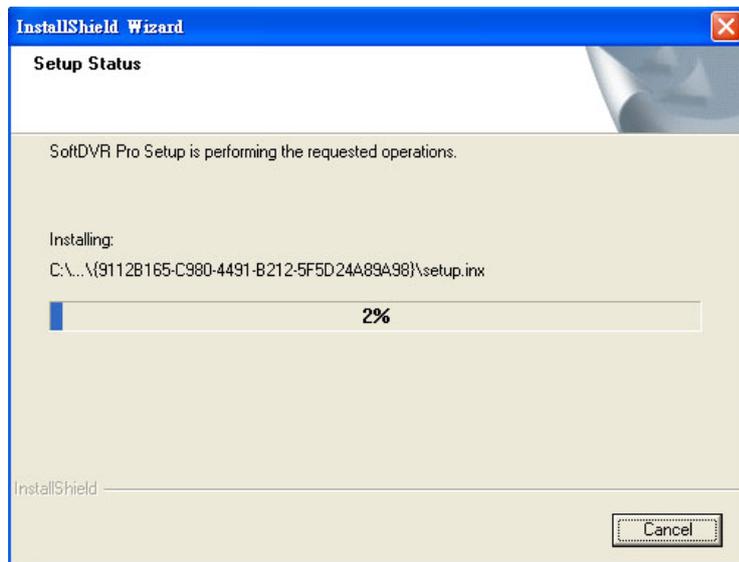
- 5. The **Choose Destination Location** window will open next. Select the folder you wish to install SoftDVR™ Pro, and then click on **Next** to continue.



6. The **Select Program Folder** window will open next. Create or select a program folder for SoftDVR Pro, then click on **Next** to continue.

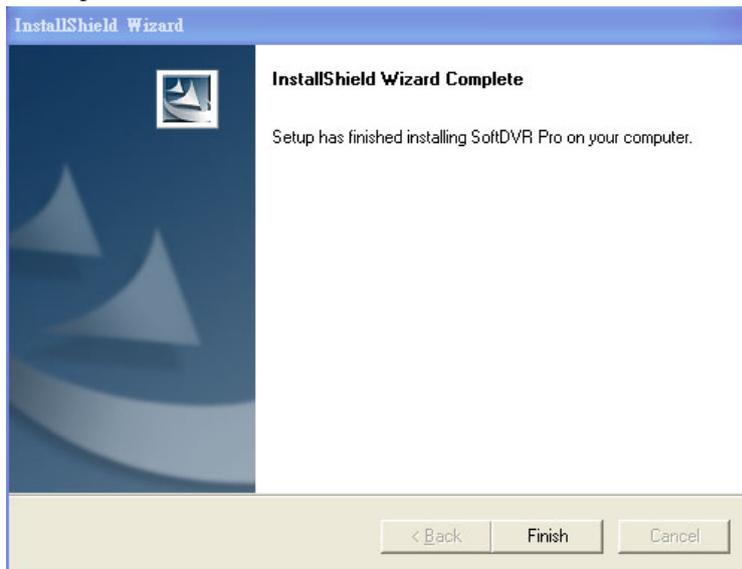


7. The wizard will start the installation process. When the digital signature request window appears, click on **Continue Anyway** to proceed with the installation.





8. The **InstallShield Wizard Complete** window will open next. Click on **Finish** to complete the installation.



## USB KEY Pro

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



**NOTE** The Key Pro protects the SoftDVR Pro license and does not influence the normal function of the PC or Server.

## Accessing SoftDVR™ Pro for the First Time

To launch SoftDVR Pro, click on **Start→Programs→SoftDVR Pro**. When the login window appears, type **admin** or **administrator** for **User Name**, leave the **Password** field blank, and then click on **OK**. The main SoftDVR Pro window will open with the resolution set to 1024 × 768. A video image will not be shown. Click on the **Application Settings** button to set up the VPort and cameras.



Application Settings

Refer to SoftDVR Lite/Pro’s User’s Manual in the CD for more details about **Application Settings**.

# SoftDVR™ Pro General Operation

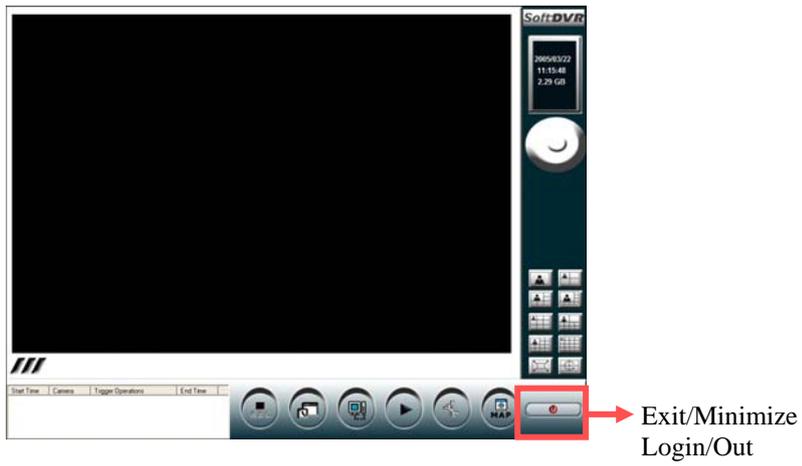
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## Authentication

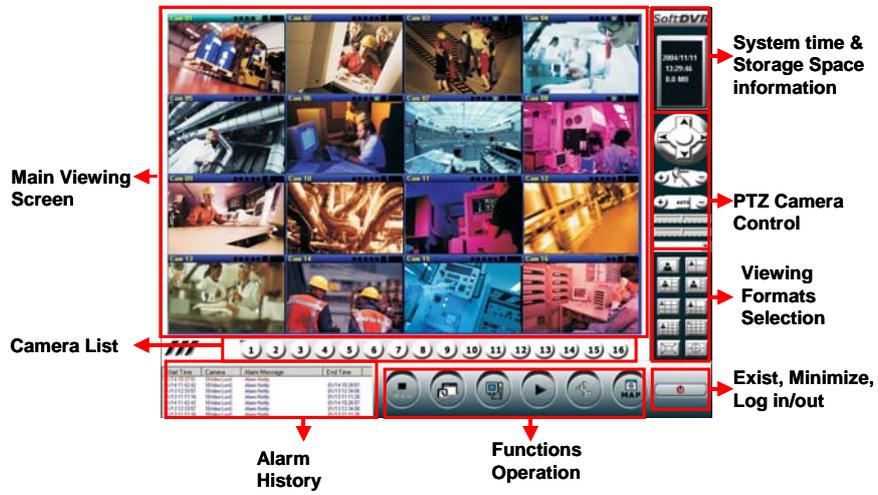
When running SoftDVR Pro, use the **User Name** and **Password** assigned by the administrator. Administrators should type **admin** or **administrator** for the User Name, and then type the corresponding Password. Click on **OK** to continue.



Use the **Exit/Minimize** button located in the bottom right corner of the the main page to exit or access SoftDVR™ Pro.



## Functions



## Function Buttons



Recording



Scheduling



Remote Service



Playback



Application Settings



Camera Map

## Viewing

SoftDVR™ Pro has 8 viewing formats: 1, 4, 6, 8, 9, 10, 13, or 16 channels on screen. You can easily change the viewing format by using **Viewing Formats Selection**. You can also select the camera you wish to view/control by clicking on one of the buttons in the **Camera List**. In addition, **Full Screen** and **Camera Scan** are provided for customized viewing.

## Recording



To activate the recording function, click on the **Recording** button. Three types of recording, which can be activated separately for each camera, are available:

1. **Monitor only, do not record:** The recording function will be OFF at all times.
2. **Round-the-clock:** The recording function will be ON all the time.
3. **Motion detect:** Recording will only be activated when VMD is triggered.
4. **DI Input:** Recording will only be triggered by the DI.

In addition, users can adjust the recording FPS (frames per second) if the video image is MJPEG standard.

Use Low Compression (MJPEG) or High Compression (MPEG4), and adjust the maximum frames per second for recording video if the video server the camera is connected to is an MJPEG video server. Low compression requires large bandwidth and more storage, but fewer system resources are required. High Compression is the opposite.

## Scheduling



To activate the scheduling function, click on the **Scheduling** button. This function has the following features:

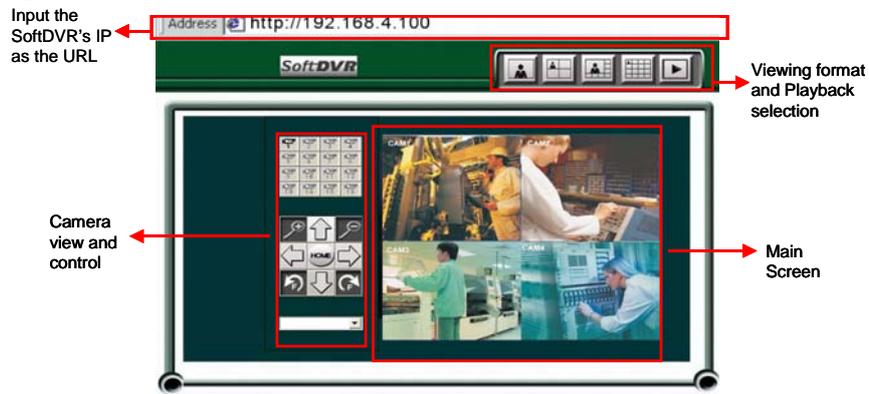
1. **Weekly Schedule** or **Dedicated Schedule**.
2. Recording and remote service action items (the Lite version only includes recording).
3. Selectable camera
4. Task remarks with details of scheduling tasks
5. Editable scheduling task list--Click Add Job to add this scheduled job to the list.

Administrators can set up the scheduling tasks in the **Application Setting/Scheduling** page.

**NOTE** A Scheduling job also includes recording and remote access. For this reason, the Recording and Remote Service buttons, located on the main page, will be disabled (indicated by a darker button) when the Scheduling function is active. This is to avoid conflicts caused by the scheduling task and the manual operation of recording and remote service.

## Remote Service

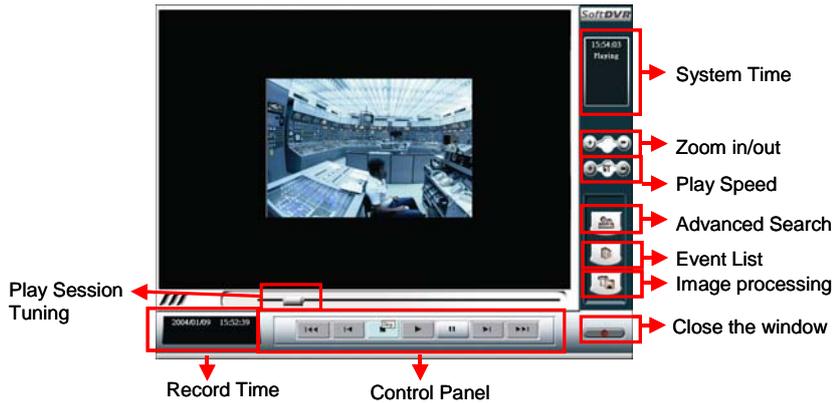
For Moxa SoftDVR Pro, **Remote Service** allows client users to access SoftDVR Pro from a remote site. Administrators can activate **Remote Service** to let users view real-time video images, and play back recorded files from any standard web browser by typing **http://IP Address of SoftDVR Pro's server** in the address input box.



## Playback



Administrators and authorized users can use the **Playback** function to view recorded files. After clicking on the **Playback** button, the **Security Playback** window will open to play back recorded files.



### Searching for recorded files

SoftDVR has two search modes. **Advanced Search** uses Time and Camera as the search conditions, and **Event List** search uses time and event type as the search conditions.

Advance Search Dialog

Play Mode

One Channel  Multiple-Channels

Time Period

Start Time: 2004/ 1/29 — 05:55:36

Stop Time: 2004/ 1/29 — 06:05:36

Camera

1  2  3  4  5  6  7  8

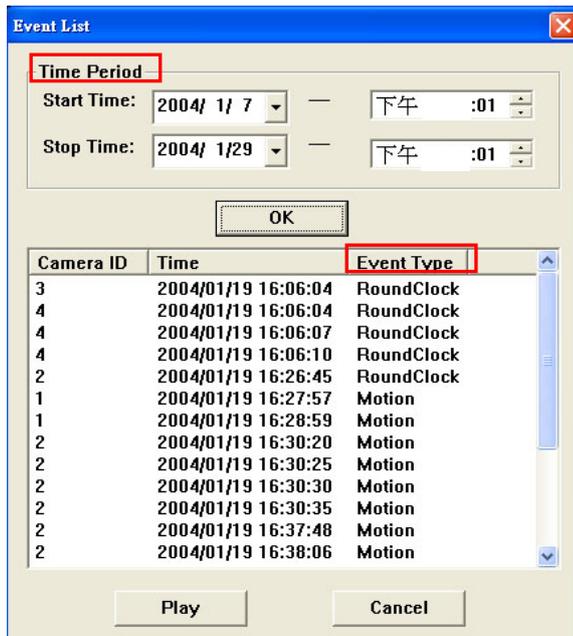
9  10  11  12  13  14  15  16

Recording Mode

Round Clock  Motion Detect  I/O Mode

OK Cancel

← Advanced Search



← Event List

### Playing a recorded file

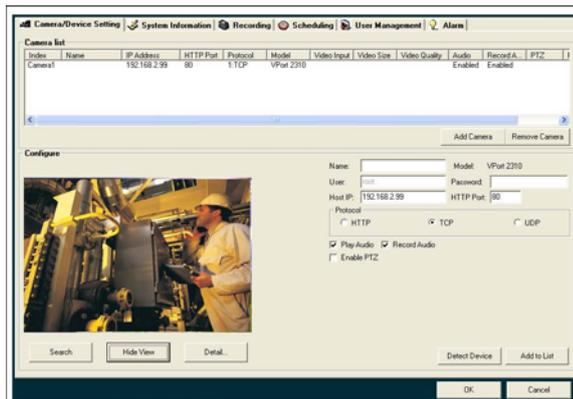
Double click on an item in the search results list to view the file onscreen.

### Controlling the video playback

Use the **Control Panel**, **Play Session Tuning**, **Zoom In/Out**, and **Play Speed** functions to control the video playback. In addition, **Image Processing** can be used to take a snapshot of the current image.

**NOTE** The Play Speed and Zoom In/Out functions need to be configured before playing the recorded file. To use the Control Panel, Play Session Tuning, and Image Processing functions, simply pause the video before activating the function.

## Application Settings



SoftDVR™ Pro has six major setting categories:

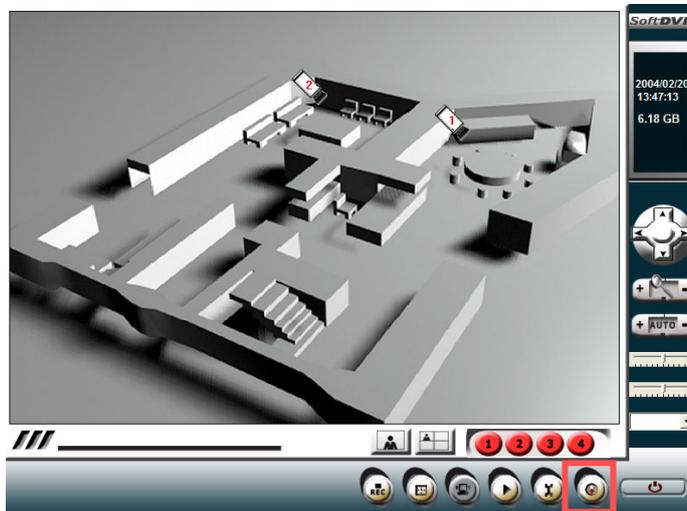
1. **Camera/Device Setting:** Administrators must configure Moxa VPort Series Video Servers and cameras to acquire video images before using the Moxa SoftDVR™ Lite functions. To add a camera, use the search function to find the VPort, or type the IP address and root password of the VPort manually to get the VPort's information.
2. **System Information:** Administrators can use this page to configure the SoftDVR™ Lite server's host name, start-up status, storage disk locations, safe space of each disk, camera caption, alarm transmitted email addresses, and auto login settings.
3. **Recording:** There are two major settings on the **Recording** page. One is the recording setting for each camera, which includes round-the-clock and video motion detection, and the other is VMD settings.
4. **Scheduling:** Administrators can use either weekly schedule or dedicated schedule, to schedule the recording times of each camera.
5. **User Management:** On this page, you can set up an administrator password and a user list. The user list can include up to 32 users. Camera operation and remote service can be configured independently for each user.
6. **Alarm:** Alarm conditions and actions—including VMD, Video Lost, Connect Lost, Sound, DI/ DO operations, and PTZ camera actions—can be configured on this page.

**For more details about Application Settings, refer to the SoftDVR™ Pro/Lite IP Surveillance User's Manual.**

## Camera Map



SoftDVR™ Pro provides a graphic E-map function for camera management. Administrators can import a layout image and place the cameras on the image for easy management of the number of cameras. Click on the **Camera Map** button to activate this function.

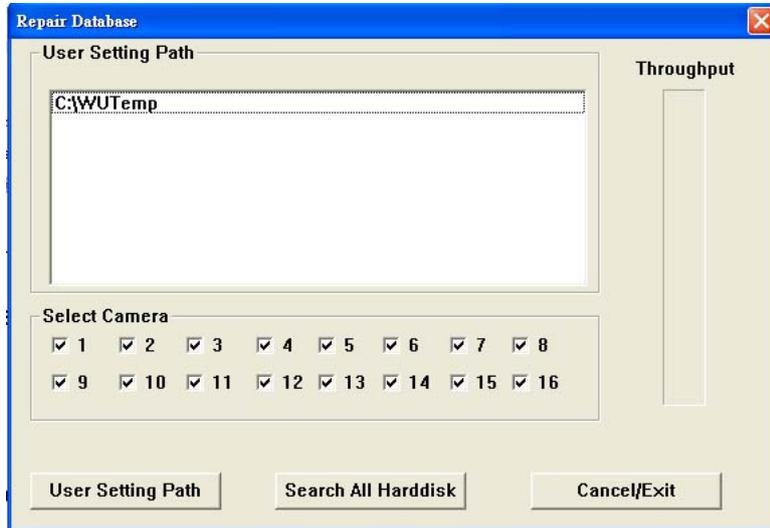


Camera Map

## Repair Database

SoftDVR™ Pro provides a **Repair Database** function to re-organize the recorded file database. Repairing the file information can increase search and playback speed.

1. Select the camera and hard disk that needs to be repaired.
2. Click on **User Setting Path** to start the repair process.



**NOTE** If a storage path has not been set in the **Application Setting/General Setting** page, the path will not appear in the Repair Database windows.

## Alarm History

The “Alarm History” function allows administrators to perform a quick search for an alarm record. The Search Options include **Using Camera Selected**, **Using Time Period**, and **Condition**.

Start Time	Camera	Condition	Trigger Operation	Alarm Remark	End Time
2005/03/24 11:21:49	8	Motion Detect	Alarm Notify		2005/03/24 11:21:55
2005/03/24 11:21:40	8	Motion Detect	Alarm Notify		2005/03/24 11:21:46
2005/03/24 11:21:04	8	Motion Detect	Alarm Notify		2005/03/24 11:21:09
2005/03/24 11:20:45	8	Motion Detect	Alarm Notify		2005/03/24 11:20:50
2005/03/24 11:20:44	6	Motion Detect	Alarm Notify		2005/03/24 11:20:50
2005/03/24 11:20:44	1	Motion Detect		vp1	2005/03/24 11:20:49
2005/03/24 11:20:21	6	Motion Detect	Alarm Notify		2005/03/24 11:20:26
2005/03/24 11:20:20	5	Connect Close	Alarm Notify		2005/03/24 11:20:20
2005/03/24 11:20:17	4	Motion Detect	Alarm Notify		2005/03/24 11:20:22
2005/03/24 11:20:03	1	Motion Detect		vp1	2005/03/24 11:20:09
2005/03/24 11:19:58	8	Motion Detect	Alarm Notify		2005/03/24 11:20:04
2005/03/24 11:19:51	8	Motion Detect	Alarm Notify		2005/03/24 11:19:57

**NOTE** Shut down SoftDVR Lite/Pro when you use the **Repair Database** and **Alarm List** function to avoid problems when reading the system’s database.

## Uninstall

Use the **Uninstall** function in the SoftDVR Pro program list to remove SoftDVR Pro/Lite.

**NOTE** The un-install process only removes the main SoftDVR Pro/Lite files. The system settings and database will be kept in the folder **Program Files/Moxa/SoftDVR Pro or SoftDVR Lite**. To remove the software completely, delete this folder.