

NVR Network Video Recording Software

User Manual

Models

SWIP-32 SWIP-16 SWIP-8



Surveillix™ NVR Server Software Manual (Version 4)

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PREFACE

ABOUT THIS GUIDE

This manual is a setup and maintenance guide that can be used for reference when setting up the NVR and for troubleshooting when a problem occurs. Only authorized personnel should attempt to repair this unit.

Toshiba reserves the right to make changes to the NVRs represented by this manual without notice.

The following text mark special messages throughout this guide:

NOTE: Text set off in this manner indicates topics of interests that can help the user understand the product better.

TIP: Text set off in this manner indicates topics and points of interests that can be helpful when using or settings up the NVR.

TECHNICIAN NOTES



WARNING: Only authorized technicians trained by Toshiba should attempt to repair this NVR. All troubleshooting and repair procedures that may be shown are for reference and minor repair only. Because of the complexity of the individual components and subassemblies, no one should attempt to make repairs at the component level or to make modifications to any printed wiring board. Improper repairs can create a safety hazard. And any indications of component replacement or printed wiring board modifications may void any warranty.



WARNING: To reduce the risk of electrical shock or damage to the equipment:

- Do not disable the power grounding plug. The grounding plug is an important safety feature.
- Plug the power cord into a grounded (earthed) electrical outlet that is easily accessible at all times.
- Disconnect the power from the computer by unplugging the power cord either from the electrical outlet or the computer.



CAUTION: To properly ventilate your system, you must provide at least 3 inches (7.6 cm) of clearance at the front and back of the NVR.

INTRODUCTION

PRODUCT DESCRIPTION

Toshiba's NVR Software is the next great step in surveillance. The NVR Software has been designed for use on non-proprietary hardware and existing IT infrastructures, making it a cost effective next generation surveillance package. The NVR Software allows users to connect up to 32 network cameras and/or network video encoders per server.

The Surveillix NVR software comes pre-configured for fast and seamless integration with non-proprietary hardware. Designed for Microsoft® Windows® XP, Vista and Windows 7, the NVR Software offers the unparalleled stability, security, and ease of use of a Surveillix NVR, but on a PC platform. The NVR Software allows for multiple users to simultaneously connect through any network connection for instantaneous live viewing, digital search, and off site video storage. Users can also connect remotely through DSL, Cable Modems, ISDN, or 56K dial-up.

This NVR Software enables users to establish recording schedules, create motion detection zones, and use PTZ controls for each of the system's cameras. Searching and indexing your video archive has never been easier, video can now be found, viewed, and exported in a number of file formats with just a few clicks and can all be done on a PC or existing IT infrastructure.

FEATURES

Toshiba's Surveillix NVR Software includes the following features:

- PAN / TILT / ZOOM Controls on supported Network Cameras
- Simultaneous Search, Playback and Backup
- Up to 32 Network Cameras
- Multiple Levels of Security Access
- Advanced POS and ATM Support
- Continuous, Motion Detection and Alarm Recording Modes
- Video Signal Loss Detection
- Records at the Encoding Resolution of the Network Camera
- Digital Signature Support for Tamper Proof Exporting
- Works with Computers Running Windows XP, Vista, and Windows 7
- Fully integrates with Toshiba's Surveillix NVRs and DVRs
- Fully Compatible with Toshiba's Line of Network Cameras

NVR SOFTWARE REQUIREMENTS

Recommended Workstation/Server for NVR Software

Total Cameras / Video Input	8/16	32
Type & Number or Processors:		
Intel® Q8200 2.33GHz+ Core 2 Quad	Χ	
Intel® Q9550 2.83GHz+ Core 2 Quad		Χ
Operating System:		
Microsoft Windows 7	Χ	Χ
Microsoft Windows Vista	Χ	Χ
Microsoft Windows XP Professional, SP2	Χ	Χ
File System:		
NTFS File System	Χ	Χ
Memory:		
2GB, DDR2 SDRAM Memory, 400Mhz,ECC	Χ	
3GB, DDR2 SDRAM Memory, 400Mhz,ECC		Χ
CD-ROM AND DVD Read-Write Devices:		
16X(or more) CD-RW / DVD+RW/+R	Χ	Χ
Graphics Cards:		
128MB PCI / PCIe / AGP Graphics adapter	Χ	Χ
Keyboard and Mouse:		
Entry Level, PS/2 / USB Keyboard and PS/2 / USB Mouse	Χ	Χ
Speakers:		
Internal Chassis Speaker and External Speakers	Χ	Χ
Soundcard:		
Microsoft® DirectX Compatible Soundcard	Χ	Χ
Network Adaptor:		
1000Mbit Ethernet Network Adaptor	Χ	Χ
Internet Browser:		
Microsoft® Internet Explorer 6+	Χ	Χ
Backup Software:		
Nero® 8 OEM/Standard/Ultra	Χ	Χ
Display Adapter Settings:		
32-Bit Color Setting	Χ	Χ
Minimum Resolution of 1024X768	Χ	Χ

NVR SOFTWARE SPECIFICATIONS

Total Cameras / Video Input	8	16	32
Recording Rate:	30 PPS per camera (depending on hardware configuration)		e configuration)
PTZ Control		YES	
Sample Image Size Averages:	Variable Depending on Network Camera and Network Camera Settings		
Password Control:		User Defined Access	
Image Compression:	Dependant	on Camera, MJPEG, MPE	G4, H.264
Motion Detection:	Up to 15 Re	egions Per Ch. Adjustable S	Sensitivity
Emergency Agent:	Transmitted Via TCP/IP - Pop-Up Window		
Digital Signature	Suppo	rts Digital Signature Verifica	ation
Recording Mode	de Continuous, Motion Detection, Sensor, Scheduled Recording		
PAN/TILT/ZOOM		Built in Software Interface	
Remote Operation	Full Remote Cor	ntrol Through PSTN, ISDN,	ADSL, or LAN
Audio	8 CH Mono	16 CH	Mono

GETTING STARTED

This chapter includes the following information:

Software CD Contents

NVR CONTENTS

Identify the following components to make sure everything has been properly included with your new NVR Software CD. If any of the following items are missing, contact your dealer to arrange a replacement.

Included Component List:



Manual (PDF)



Software Installation CD

- Toshiba NVR Software
- Surveillix Central Station (SCS)
- Emergency Agent
- Remote Software
- Backup Viewer
- Digital Signature Verifier

NVR BASICS

This chapter includes the following information:

- Installing the NVR Software
- Registering the NVR Software
- Becoming familiar with the Display screen
- Defining Screen Divisions

INSTALLING THE SOFTWARE

Installing NERO® Burning Rom

The NVR Software has been designed to work with Nero Burning Software Version 8. When installed, Nero will enable backup to the CD ROM directly within the NVR Software. Without Nero installed, video data may still be backed up but must be saved locally first and then copied to a CD using a separate application outside the NVR Software.

CAUTION: NERO Burning Rom must be installed on the PC prior to installing the NVR Software. Failure to do so will compromise the backup features.

To Install Nero 8 and enable CD Backup using the NVR Software:

- 1. Insert the NERO ® CD
- 2. Follow the on-screen instructions.
- 3. Restart the system.

Installing the NVR Software

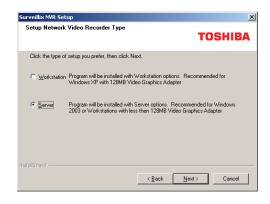
CAUTION: NERO Burning Rom must be installed on the PC prior to installing the NVR Software. Failure to do so will compromise the backup features.

To install the NVR software:

- Insert the NVR Software CD into the CD/DVD Drive.
- 2. Follow the on-screen instructions.
- 3. When prompted select the Server or Workstation type of installation.

Server: Preferred installation for systems with video cards equipped with less than 128 MB of video ram or systems running Windows Server 2003. Disables live video display.

Workstation: Preferred installation for systems with a video card equipped with 128 MB or more of video ram. Enables live video display.



4. Click Finish to complete the installation and close all open windows.

Registering the NVR Software

Have the following information available before registering.

Software Serial Number: That product Serial Number is the unique number that Toshiba provided with the purchase software. System ID: The System ID is a unique code generated using the MAC address of the computer running the software. The following steps illustrate how to obtain a unique System ID.

Locating the System ID

- 1. From the **Display** screen, click **Setup**.
- 2. Click Network Cameras.



- 3. Click the License tab.
- 4. Click Copy to copy the System ID.

Obtaining the Unlock Code

1. Open an Internet browser and go to: http://register.surveillixdvrsupport.com/



- 2. Type the **Product Serial Number** that was provided by Toshiba.
- 3. Type the **System ID** generated by the DVR.
- 4. Click Submit.

Software Registration

Product Name 01 Channel IP Camera Unlock

Product Serial Number

System ID

DVR Serial Number:

Please verify the information and press NEXT to proceed.



- 5. Verify the information.
- **6.** Click **Next** if the information provided is correct.
- 7. Once validated, the user will be provided with the Unlock Code.
- 8. Print the page and save for later reference.

Software Registration

The following is your unlock code. Keep this number in a safe place as you will need it if you ever reinstall the software.

Unlock Code

Product 01 Channel IP Camera Unlock

Product SN
DVR SN

NOTE: This unlock code cannot be transferred to a different computer.

Print this Page

Unlocking the Upgrade

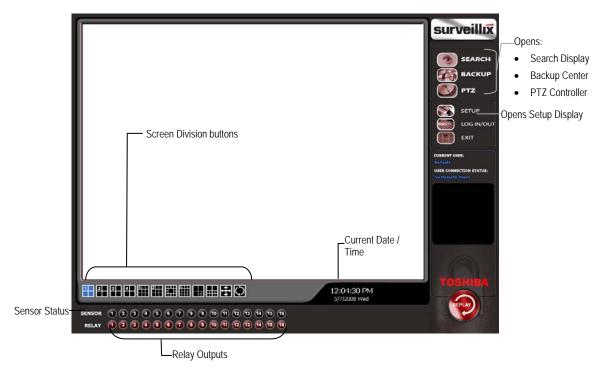
- Return to Setup > Network Cameras > License.
- 2. Enter the Unlock Code generated by the Surveillix Registration Site into the License Key box.
- 3. Click Register and confirm that the new License Key is listed in the Channel Connection License box.
- 4. Click OK.

Unlocking New Network Device

Follow the instructions above for registering the NVR upgrade to unlock any additional network devices.

DISPLAY SCREEN

Each time the DVR starts, the program defaults to the Display screen. The following diagram outlines the buttons and features used on the Display screen. You should become familiar with these options as this is the screen that will be displayed the majority of the time



Live Camera Options

Right-click a camera on the Display screen to display these options:

- Full Screen
- Instant Recording
- Search In Live
- Digital Zoom



Live Digital Zoom

Zoom in on an image while watching live video with network video cameras.

- 1. Double-click the live video feed of an IP camera. This feature only works in the single camera screen division.
- 2. Right-click the video and then click Digital Zoom.
- 3. Use the mouse and the scroll wheel to control the direction and zoom in / zoom out.

CAMERA VIEW



Recording Status Indicator

The camera status for each camera is displayed in the upper right corner on the Video Display Area. The following are the different states for each camera:

•	Recording	Displayed when the camera is currently being recorded to the DVR.
00	Motion Detection	Displayed when a camera (set up for motion detection) detects motion.
	Display	Displayed when the camera is currently not being recorded to the DVR.

Special Recording

There are two types of DVR Special Recording. Text is displayed on the camera indicating what type of Special Recording is activated.

SENSOR Sensor is displayed when a sensor, associated with a given camera, is activated.

Instant Recording is a manual activation of the recording for the selected camera. Regardless of the recording method, Instant Recording will start the camera recording and also flag the video for future searches using the Index Search feature. INSTANT is displayed when a user activates the instant recording option. Double Right-Click the video display to activate and deactivate the Instant Recording option.

SCREEN DIVISION BUTTONS

The Screen Division menu allows you to view cameras in groups such as two by two, three by three and four by four. The button options are shown below.



1st Four Cameras View – Displays cameras 1-4 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division menu.



2nd Four Cameras View – Displays cameras 5-8 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division menu.



3rd Four Cameras View – Displays cameras 9-12 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division menu.



4th Four Cameras View – Displays cameras 13-16 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division menu.



1st Nine Cameras View – Displays cameras 1-9 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division menu.



2nd Nine Camera View – Displays cameras 8-16 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division menu.



Multi-Camera View – Displays a group of cameras within the Video Display Area.



All Camera View - Displays all 16 cameras within the Video Display Area.



Multi-Camera View - Displays a group of cameras within the Video Display Area.



Multi-Camera View – Displays a group of cameras within the Video Display Area.



Full Screen – The Full Screen Option allows you to view the Video Display Area using the entire viewable area on the monitor. When this is selected, no menu options are visible. You can activate the Full Screen Option by clicking on the Full Screen button within the Screen Division menu. You can deactivate Full Screen mode by right clicking on the screen.



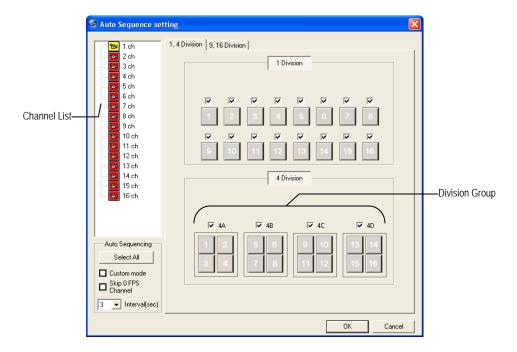
Auto Sequence – Sequences through the Screen Divisions sets. For example, selecting the 1A and then the Loop button will sequence through 1A, 2A, 3A, 4A and then repeat. This option is not available for the 7, 10 and 13 screen divisions.

Custom Live View Divisions

Customize your Live View screen by changing the order of the cameras. Each screen division can be individually customized but a camera can only be displayed once (once in 4 camera view, once in 9 camera view, etc). Both analog and IP video cameras can be moved

Create custom live view divisions:

- 1. On the Live View screen click Setup, and then click General.
- 2. Click Sequence Setting.
- 3. Drag and drop cameras from the Channel List to the desired location within the Division Group (4 Division, 9 Division, 16 Division).



SETUP OPTIONS

This chapter includes the following information:

- Setup Overview
- Camera Setup
- Motion
- Schedule
- Network
- Information
- Administrative

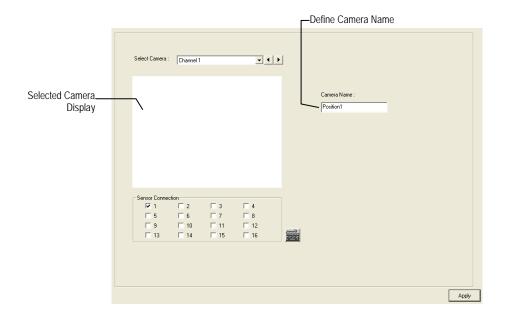
SETUP OVERVIEW

The Setup options allow you to optimize your DVR by adjusting things like camera names, reboot schedules, recording schedules and more. It is extremely important that you setup your DVR correctly for several reasons.

- Recording Schedules By optimizing the recording schedule you can increase the
 amount of pertinent recorded video that is saved on the DVR and keep it longer. You
 can optimize the type of recording done by adding motion detection to this as well,
 again increasing the amount of useful video.
- DVR Access By setting up the access passwords you can tightly control the types
 of access an individual may have. This ensures the security and integrity of the DVR.
- Camera Naming By naming each camera you can easily identify the location and any other pertinent information that may be helpful simply by viewing it on the Video Display Area.

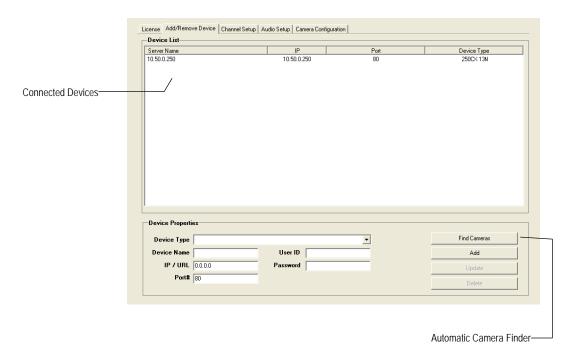


CAMERA SETUP



Select Camera	Selects the camera to be edited.
Selected Camera Display	Displays the live camera feed from the camera selected.
Sensor Connection Specify which sensors are currently in use.	
Camera Name	Specify a name for each camera.

NETWORK VIDEO



Supported IP Camera Manufacturers

ACTi Panasonic Pixord Arecont Vision Axis Samsung Securgen Brans D-Link Sony **IQeye** Stardot Lumenera Toshiba Mobotix VivoTek

Connecting a Network Device

Connecting Manually

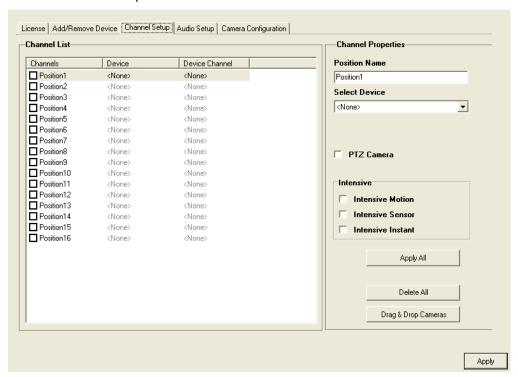
- 1. From the **Display** screen, click **Setup**.
- 2. Click Network Video.
- 3. Click the Add/Remove Device tab.
- 4. Select your network device from the **Device Type** list.
- 5. Type a Device Name.
- 6. Type the IP/URL address, Port, User ID and Password of the device.
- 7. Click Add.

Connecting with Camera Finder

- From the Display screen, click Setup.
- Click the Network Video tab.
- 3. Click the Add/Remove Device tab.
- 4. Click Find Cameras to automatically find all connected Network cameras.
- 5. Select the check box next to the desired camera.
- Click Get Device.
- 7. Type the User ID and Password of the device.
- 8. Click Update.

Assigning a Network Device to a Channel

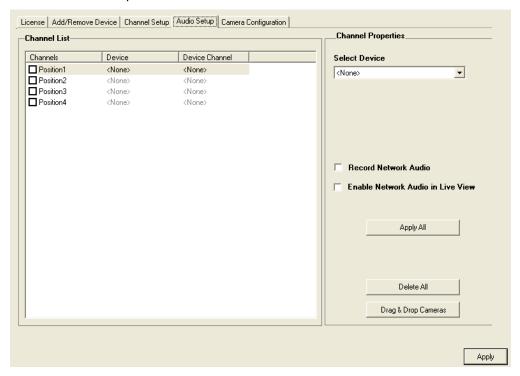
- From the Display screen, click Setup.
- 2. Click Network Video.
- 3. Click the Channel Setup tab.



- 4. Click an available channel on the Channel List.
- 5. Type the desired **Position Name**.
- 6. Select the appropriate network device added previously.
- 7. If the device has PTZ capabilities, select the PTZ Camera check box to enable.
- 8. If supported, select the Use Network Camera Motion Detection check box.
- 9. Select Intensive Motion, Intensive Sensor, and/or Intensive Instant to increase the recording rate on an event.
- Click Apply, and then click Exit Setup.

Assigning Audio Channels to a Network Device

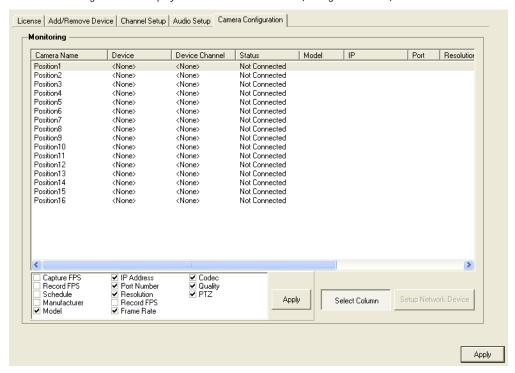
- 1. From the Live View screen, click Setup.
- 2. Click Network Video.
- 3. Click the Audio Setup tab.



- 4. Click an available audio channel on the Channel List.
- 5. Select a network device added previously.
- To record the network audio select the Record Network Audio check box. The audio channel will be available on the search screen.
- 7. To access the audio channel from the Live View screen, select the Enable Network Video in Live View check box.

Camera Configuration

The Camera Configuration tab displays information on all cameras (analog and network) connected to the Surveillix DVR



Displaying More Columns

The Camera Configuration tab can be customized to display the information you use most. Click **Select Column** to add or remove specific columns.

Capture FPS	IP Address	Codec
Record FPS	Port Number	Quality
Schedule	Resolution	PTZ
Manufacturer	Record FPS	
Model	Frame Rate	

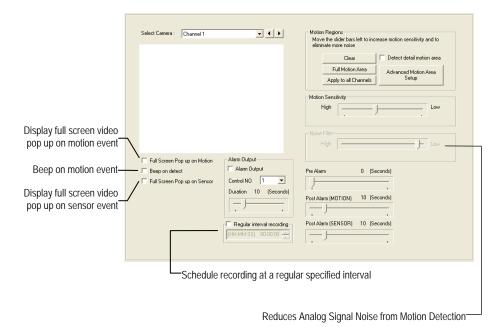
Accessing the Configuration Menu

Use the Surveillix interface to access basic network device menu functions.

- 1. From the **Display** screen, click **Setup**.
- 2. Click Network Video.
- 3. Click the Camera Configuration tab.
- Highlight the desired camera.
- 5. Click Setup Network Device.

MOTION SETUP

The DVR allows the user to adjust several different Motion Settings and create motion detection areas.



Create a Motion Area

- Click Motion in Setup.
- 2. Select a camera from the Select Camera list.
- 3. Select the Detect Detail Motion Area check box.
- Click Clear.
- 5. Click Advanced Motion Area Setup.
- 6. Click a Motion Detection Area shape button.
- 7. Drag the mouse over the camera image.

Note To create a polygon shape, click the mouse at each point and double-click to close the shape.

- 8. Click OK.
- 9. Move the sliders to adjust motion sensitivity and the noise filter.
- Define the pre-alarm and post-alarm recording time for a motion event.

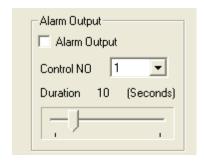
Pre Alarm – 0 > 50 Seconds [The number of seconds the DVR records before motion is detected]

Post Alarm (MOTION) – 0 > 50 Seconds [The number of seconds the DVR records after motion is detected]



Activating an Alarm on a Motion Event

- 1. In the Motion Setup window, select a camera to edit from the Camera list.
- 2. Create a motion area.
- 3. Select the Alarm Output check box.
- 4. Select a Control Output to activate for the selected camera.
- 5. Select an Alarm Duration time when a motion event occurs.



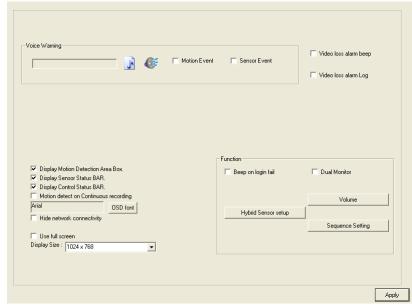
Regular Interval Recording

Regular Interval Recording allows users to record a single frame every few minutes or hours when there is no motion. This option is only available when Motion recording or Sensor recording is selected in the recording schedule.

To enable Regular Interval Recording:

- 1. Select the **Regular Interval Recording** check box.
- 2. Specify how often to take an image when no motion is occurring. Users can go as little as one image per second.

GENERAL SETUP



Function	
Beep on Login Fail	Enables the DVR to beep continuously in response to a failed login attempt. Only an authorized login will stop the beeping.
Sequence Setting	Allows the video out picture to automatically cycle through channels at a set speed. Example: .Cycle through channels 1-6 at four-second intervals.
Display Options	
Use Full Screen	Stretch the Surveillix interface to use the full monitor screen.
Display Size	Select from available monitor display sizes. Use to correctly display video on wide screen monitors.

Voice Warning

The DVR allows users to play a sound file when either a Motion event or Sensor event occurs. This file can be a custom created sound file that is unique to the application. The selected WAV file is played through speakers attached to the DVR.



- 3. Click the Open Sound File icon to browse for a WAV file. The selected file will display in the box on the left.
- 4. Click the **Test** icon to verify the audio file.
- 5. Select Motion Event and/or Sensor Event to trigger the audio file.

Connecting to a Wide Screen Display

- 1. Click Exit on the Display screen and select Exit in Windows Mode.
- 2. Right-click the Desktop and select Properties.
- 3. Click the Settings tab.
- 4. Drag the **Screen Resolution** bar to the proper resolution of the connected display.
- **Tip** Refer to the display documentation for the proper resolution settings.
- 5. Click **OK** and confirm the change.
- 6. Double-click the Surveillix Server icon on the Desktop.
- 7. Click Setup on the Display screen and then click General.
- 8. Under Display Settings, select the Use Full Screen check box and then select the correct resolution from the Display Size list.
- 9. Click Apply.

Connecting a Second Monitor

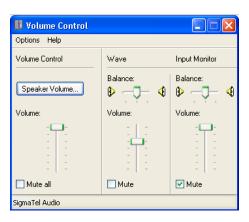
- 1. Click Exit on the Display screen and select Exit in Windows Mode.
- 2. Right-click the Desktop and select Properties.
- 3. Click the Settings tab.
- Click the secondary display and click the Extend my Windows desktop onto this monitor check box.
- **Tip** Refer to the display documentation for the proper resolution settings.
- 5. Click **OK** and confirm the change.
- 6. Double-click the Surveillix Server icon on the Desktop.
- 7. Click Setup on the Display screen and then click General.
- 8. Under Function, select the Dual Monitor check box.
- Click Apply.

Volume

The volume control allows fine tuning of the volume settings on the DVR.

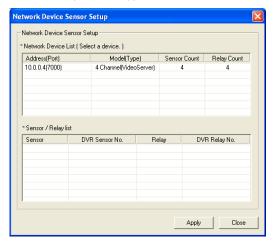
Volume Options:

- Slider Controls Used to adjust the literal volume for the respective devices listed.
- Mute Check Box Select the mute check box to mute volume on any of the device columns or select the Mute All check box to mute all audio on the DVR.



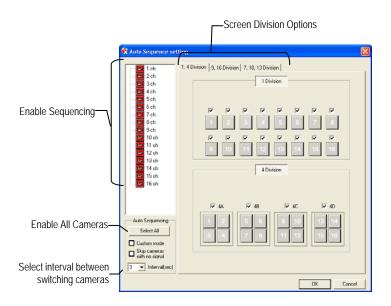
Hybrid Sensor Setup

This interface is used to link Hard Contact Sensor Inputs from supported Network Devices to the DVR Software.



Auto Sequence Setting

Auto Sequencing is available either in the Display screen when Auto Sequencing has been enabled or when a Spot-Monitor out signal is used to display on a spot monitor. Auto Sequencing conveniently displays video channels at specified intervals and sequences through each selected channel.



Custom Mode	Create non-standard screen divisions
Skip 0 FPS Channel	Sequence skips cameras with no video signal

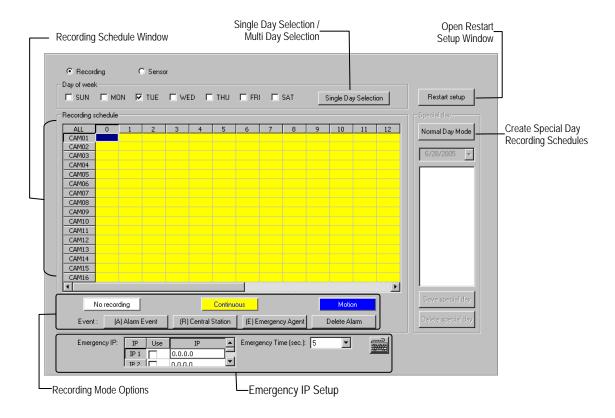
Create Custom Auto Sequence

- 1. Open General setup and click Sequence Setting.
- 2. Click individual cameras in the left pane or click Select All to include all cameras in the sequence.
- 3. Select an Interval time (in seconds) to display each screen in the sequence.
- 4. Select screen division options for appropriate cameras.

SCHEDULE SETUP

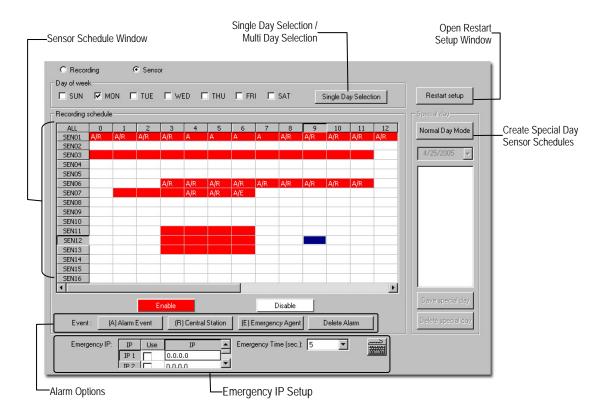
Recording Schedule

The Recording Schedule window allows the user to create different recording schedules based on the day, time, and type of recording desired. In addition, this window contains the System Restart options that allow the user to perform basic system maintenance by automatically scheduling the DVR to restart periodically.



Sensor Schedule

The Sensors will supersede all other types of recording modes (Motion and Continuous). Regardless of the recording schedule of a particular camera, if a sensor event occurs the associated cameras will begin recording as a Sensor Event. Sensor Recordings will be flagged and searchable using the Index Search Mode. Cameras are associated to sensors in the Camera Setup menu.



Create a Recording Schedule

- Select a day to begin creating the schedule for -or- click Single Day Selection, enabling Multi Day Selection, to create the same schedule for multiple days.
- Highlight the Time-Blocks within the Recording Schedule window for the camera(s) selected to schedule. Once the desired
 Time-Blocks are highlighted, click a Recording Mode button. The Time-Blocks should now appear Blue for Motion, Yellow for
 Continuous and White for No Recording.

Note Leave cameras recording with Sensor Detection set to No Recording for the specified time block(s).

Create a Sensor Schedule

- Click Schedule and then and then select the Sensor option. Select a single day or click Single Day Selection to include multiple days in the schedule.
- Highlight the Time-Blocks within the Recording Schedule window for the sensor(s) to enable and schedule. Once the time blocks are highlighted click Enable. The time block will now appear red.

Scheduling Alarm Events

There are three types of Alarm Events:

ALARM EVENT: This option logs the Alarm Events on the local server.

CENTRAL STATION: This option sends a Map Alarm to Central Station software such as SCS Multi-Site Management.

EMERGENCY AGENT: This option sends the Alarm Event to the Emergency Agent software.

Motion can be designated as an alarm event. Often motion does not need to be treated as an Alarm event. Ex: During work hours, motion that occurs is expected and should not be treated as an alarm. However, after business hours, any motion that occurs could be treated as an alarm.

- 1. Click Schedule on the Setup screen.
- 2. Select either Recording or Sensor.
- Highlight time blocks in the schedule that have been set to Motion (or Sensor) and click the desired Event buttons (Alarm Event, Central Station, Emergency Agent). A corresponding letter will display in the selected time blocks.

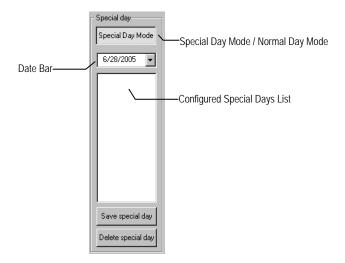
Emergency Agent Schedule

Video recording triggered by motion or sensor events can be sent to the Emergency Agent software.

- Enable the Emergency Agent Event. (see Scheduling Alarm Events above).
- 2. Enter the IP Address of a PC running the Emergency Agent software under Emergency IP.
- 3. Select the check box next to the IP Address to enable it. Only one IP Address is supported at a time.
- 4. Enter the recording duration (in seconds) in the Emergency Time box.
- Tip See the Emergency Agent chapter for detailed information on setting up the Emergency Agent software.

Special Day Schedule

The user can create days that have a unique recording schedule. If necessary create these on days that are 'not typical' such as Holidays, Special Events, etc.



Creating/Editing a 'Special Day' Schedule

- 1. Click Normal Day Mode to enable the Special Day Mode.
- 2. Select a day by typing the date or clicking the arrow to the right of the Date Bar.
- Highlight the time-blocks within the Recording Schedule window for the camera(s) selected. Once the desired Time-Blocks are highlighted, click a Recording Mode button.
- 4. When finished creating the schedule the Save Special Day.

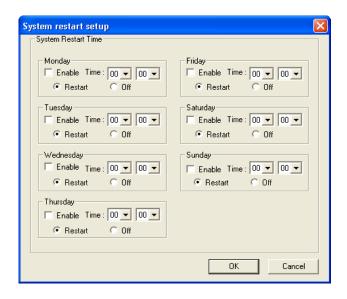
Note The special day should now appear as a date in the Special Day Schedule.

Deleting a 'Special Day' Schedule

- 1. Select a date from the Special Days list.
- 2. Click Delete Special Day.

System Restart Setup

System Restart Setup allows the user to define a schedule wherein the DVR automatically restarts according to specified parameters.



Create System Restart Schedule

- 1. Click **Schedule** on the Setup screen.
- 2. Click Restart Setup.
- 3. Select the day(s) of the week to schedule an automatic system restart and select the check box to enable shut down.

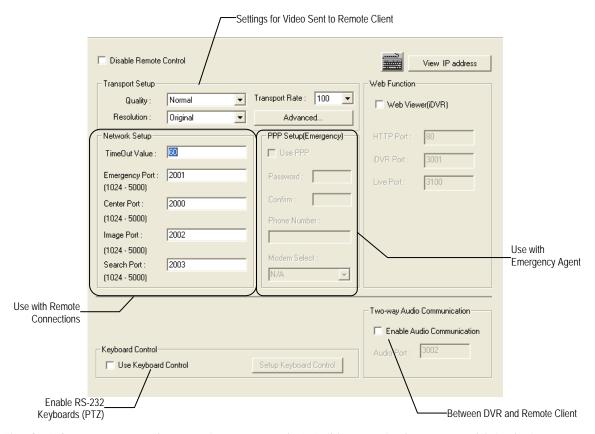
Note This step alone does not trigger the DVR to restart, only to shut down.

- 4. Specify the time of day to schedule the system restart.
- 5. Select the **Restart** option.

Note If Off is selected, the DVR will shut down at the specified time but not restart.

NETWORK SETUP

Network Setup allows the user to adjust settings such as Ports, setup emergency PPP information for use with the Emergency Agent and enable Remote Access.



Time Out Value When attempting to connect to the DVR, if the connection does not succeed during the timeout

period (seconds), the connection will be terminated.

Emergency Port Used to connect to the Alarm Monitor software.

Center Port Used to connect to the Surveillix remote software. This port must be specified in the Remote

Software to connect to the DVR.

Note Center Port 1025 is not available for remote connections. It is used by the ATI VGA management suite

Image Port Used to transfer the video to the Surveillix remote software.

Search Port Used to transfer search information to the Surveillix remote software.

Note If connecting to the DVR through a firewall, the above ports must be open to incoming and outgoing traffic.

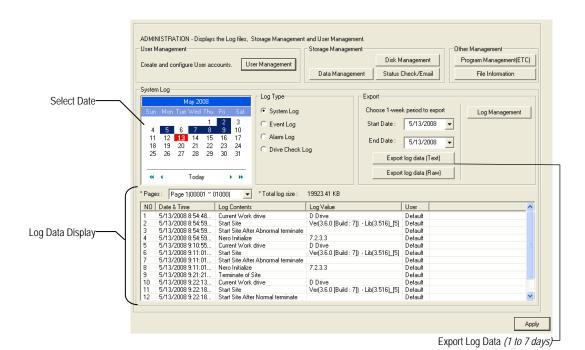
Resolution By setting the resolution low, the images will be sent faster, however, the image quality will be

reduced considerably. When set to Original, full quality video will be sent [720 x 480 (NTSC) 720 x

576 (PAL)]. The Original setting is very bandwidth intensive.

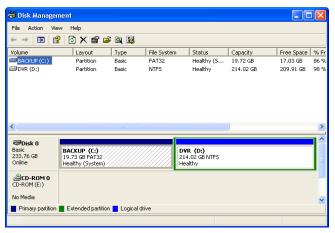
Transport Rate Throttles the bandwidth on the DVR. This option is based on percentages of images sent.

ADMINISTRATIVE SETUP



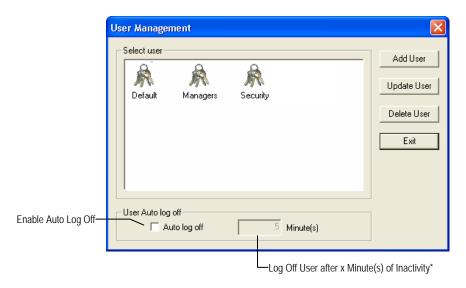
Disk Management

The Disk Management window is a native Windows function. This window displays the partition scheme and health status of the Hard Disk Drives in the DVR. This window is often used to troubleshoot a DVR, or verify the amount of Hard Drive storage installed. For more information about Disk Management, consult a Windows XP manual.



User Management

The User Management Console allows the administrator to create, edit, and delete user accounts. Each user account can be assigned different privileges to limit the usage of the DVR system. Users can be given administrator privileges by enabling all rights, however only the true administrator account can log into the User Management Console.

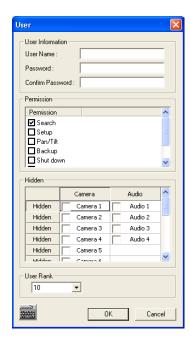


*Auto Log Off affects all users

Note The Delete User button immediately deletes the user – use cautiously.

Add a New User

- 1. From the Display screen, click **Administrative**.
- 2. Click User Management.
- 3. Click Add User to open the User window.
- 4. Enter a User Name and Password.
- 5. Enable appropriate **Permissions**.
- 6. Select Cameras and Audio channels to hide from the user.
- 7. Assign a User Rank.
- 8. Click OK to save changes and close the window.



User Rank

The User Ranking structure allows the option to assign a privilege system (1-10 where one has the most rights) to users of the DVR Software. For example. Since only one user is allowed to use the PTZ controls at any one time, an administrator with a higher rank can kick another user out and take control of the PTZ.

The User Rank option affects:

SETUP ACCESS - The DVR Software can only have 1 user accessing Setup at any given time. A user with a higher rank will kick another user out and then open Setup. NOTE: User settings will NOT be saved when a user with a higher ranking logs in. PTZ CONTROL - The DVR SOFTWARE can only have 1 user using the PTZ controls at any given time. A user with a higher rank will kick another user out and then open the PTZ controls.

- From the Display screen, click Setup.
- 2. Click Administrative.
- 3. Click User Management.
- 4. Enter the Administrator password and click OK.
- 5. Select a user from the **Select User** box and click **Update User**.
- Set the user's rank using the User Rank list and click OK to save changes.

Changing the Administrator Password

- Inside Administrative setup, click User Management. When the prompt appears, click Change Password.
- 2. Enter the new password and click OK.

Default Administrator Password

The default administrator login is:

User: Administrator
Password: <blank>

Log Management

The Log Management window provides the user the options to overwrite log files or schedule log deletion.

Setup Log Management Options

- 1. From the Administrative setup display click Log Management.
- Select the check box to enable the Log File Overwrite Option.

Set Log Overwrite

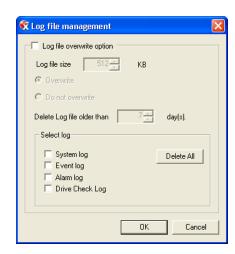
a. Select Overwrite and define the size of the log file cache.

Set Log Cache Size

a. Select Do Not Overwrite and define the number of days to maintain log files.

Manually Delete Log Files

- a. Select the type(s) of log file to delete. System Log, Event Log, Alarm Log.
- b. Click Delete All.
- 3. Click **OK** to save the settings and close the window.



Status Check / Email

General

- 1. Click **Setup** on the Display screen.
- 2. Click Administrative.
- 3. Click Status Check/Email.
- 4. Select the Enable Email Alarm check box.
- 5. Enter a From Name and e-mail Address.

Note This name and address will appear in the From line of the email alert message.

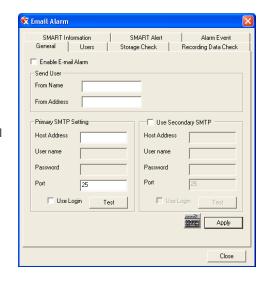
- Enter the SMTP information for the "From" email account. Contact the email administrator for this information if necessary.
- If using a secondary email account select the Use Secondary SMTP check box and complete the SMTP information.
- 8. Click **Test** to check settings.
- Click Apply when finished.

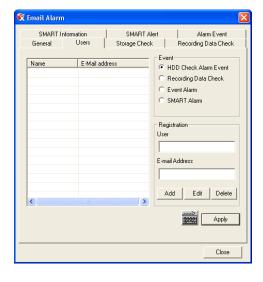
Users

- 1. Set up the **General** tab first.
- 2. Click the Users tab.
- 3. Select the type of **Event** to send email on.
- 4. Enter the User Name and E-mail Address of an email recipient.
- 5. Click Add.
- 6. Repeat for additional recipients and types of events.

Note A separate email notification for each type of event must be set up for a single recipient to receive notifications for each type of event.

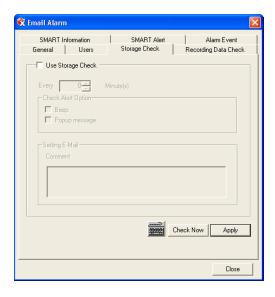
7. Click Apply when finished.





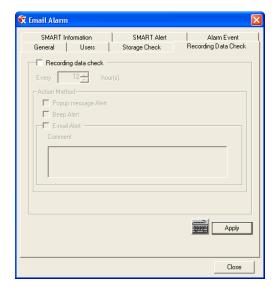
Storage Check

- 1. Set up the General and Users tabs first. (see above)
- 2. Select the Use Storage Check check box.
- 3. Define the number of minutes.
- 4. Select an Alert Option, Beep or Popup Message, if desired.
- 5. Click Apply.



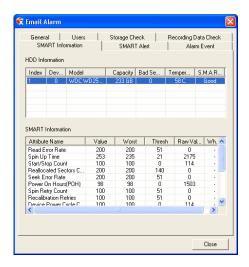
Recording Data Check

- 1. Setup the **General** and **Users** tabs first. (see above)
- 2. Select the Recording Data Check check box.
- 3. Define the number of hours between data checks.
- 4. Select the Action Method.
- 5. Click Apply.



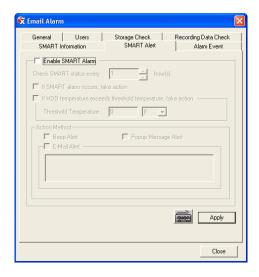
SMART Information

The SMART Information tab displays Hard Drive information.



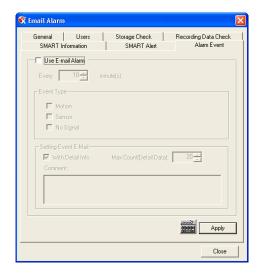
SMART Alert

- 1. Setup the **General** and **Users** tabs first. (see above)
- 2. Select the Enable SMART Alarm.
- 3. Define the number hours between SMART checks.
- 4. Select the type of SMART event to trigger an action.
- 5. Define the maximum HDD temperature.
- 6. Select an action method.
- 7. Click Apply.



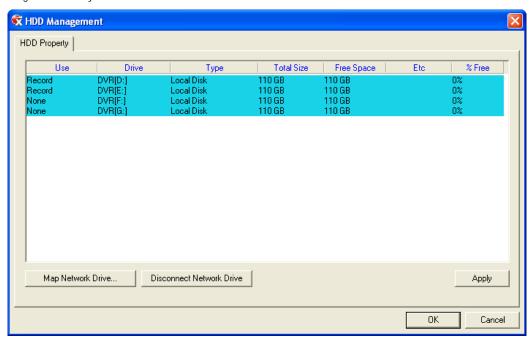
Alarm Event

- Setup the General and Users tabs first. (see above)
- 2. Select the Use Email Alarm check box.
- 3. Define the number of minutes between recording data checks.
- 4. Select Motion and/or Sensor to send and alert on that type of event.
- 5. Click Apply.
- 6. Click Close to return to the Administration tab.



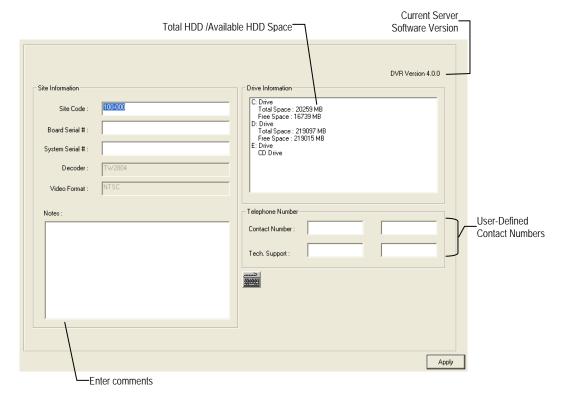
HDD Management

HDD Management allows you to select drives to record data and add network drives.



INFORMATION

The Information display allows users to define the site code necessary for connecting to remote software, save comments relative to the DVR and store tech support and contact number information.



Site Code

A user-specified unique identification name used by other DVR software to identify the DVR. (Remote, Emergency Agent, SCS, Digital Signature Verifier)

INSTANT RECORDING

The Instant Recording feature allows users to manually initiate recording on a specific camera, overriding the current schedule. When Instant Recording is activated the DVR flags the clip as an event so Instant Recording instances can be found using the Index Search

Instant Recording can be used, for example, when a suspicious object or person is detected and the user wants to flag that section of video for easy retrieval at a later date.

Activate Instant Recording

- 1. From the Display screen, double right-click the camera on which to enable instant recording. An INSTANT label will be placed on the upper right corner of the video.
- 2. To turn the Instant Recording option off, double right-click the camera a second time.

Searching 'Instant Recorded' Video

- 1. From the Display screen click **Search**.
- 2. Click Index Search.
- 3. Select the **Instant Recording** option. See the Search chapter for more information.

SEARCH

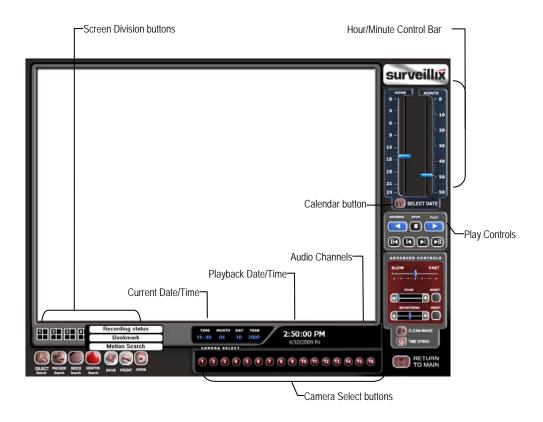
This chapter includes the following information:

- Search Overview
- Daylight Saving Time
- Index Search
- Preview Search
- Graphic Search
- Motion Search

SEARCH OVERVIEW

The DVR has several options that allow the user to easily search through, and find, a particular section of video. From Motion/Sensor indexing to calendar views highlighting days with recorded video; the DVR is equipped to help the user quickly find a specific video or event.

The following chapter describes how to use the DVR Search features.



Note Audio Channel buttons are only viewable when one camera is selected.

Play Controls



Adjust the Brightness of an Image

- 1. Select an image to adjust by double-clicking on the desired image. Multiple images cannot be adjusted at one time.
- 2. Move the **Brightness** slide bar to the right or left to adjust the brightness.
- 3. Reset the Brightness by moving the slider back to the center of the bar.

Zooming in on an Image

- 1. Select an image to adjust by double-clicking on the desired image. Multiple images cannot be adjusted at one time.
- Move the Zoom slide bar to the right or left to zoom in or out of an image.
- 3. Reset the Zoom by moving the slider back to its original position on the bar.

Zooming in on a Portion of an Image

- Right-click the area of interest on the image and select Zoom.
 - or Double-right-click the image.
- 2. Repeat to zoom in further.
- 3. Continue clicking the right mouse button and the image zoom will cycle back to the original size.

Open Video from a Saved Location

Previously saved video clips or backup files can be searched for content. Find file by date and time or by name.

- 1. Click **Open** to search for the saved file.
- 2. Select a file from the list of saved clips and backup files or search by start hour.
- 3. Click OK to open the saved file.

Time Sync

The Time Sync option synchronizes a single channel of video to playback in real time. Ordinarily the video may playback slower or faster depending on several factors, including how many PPS recorded and number of cameras playing at the same time.

- 1. Select a single image to synchronize by double-clicking on an image.
- 2. Click Time Sync. The video will now playback in real time.

Clean Image

The DVR is capable of recording video using one of three different resolutions. When using the 720 x 480 resolution, two fields are mixed. Because of the timing gap between the two fields, according to the standardized image rules, after image might occur to high speed moving images. The Surveillix DVR allows the user to remove this by clicking the Clean Image button.

PERFORMING A BASIC SEARCH

There are several different types of searches that can be performed on the DVR. The most basic involves selecting the date, time, camera, and clicking play.

- 1. Click the Calendar button to select a date.
- 2. Select a time by clicking the up and down arrows to the right of the time display.
- 3. Click OK.
- 4. Select one or more cameras.
- 5. Click Play. Video can be played forwards, backwards, or frame-by-frame.

PRINTING AN IMAGE

1. Using the Search screen, locate a frame to print.

Note Only one camera can be selected at a time for this function to work.

- 2. Click **Print**. A **Print Options** window appears. Depending on the printer being used, there may be several printing options available. Refer to the printer manual for more information.
- 3. Click **Print** to print the selected images.

Note The message "NO DEFAULT PRINTERS INSTALLED" will display if no printer is installed.

DAYLIGHT SAVING TIME

The DVR automatically adjusts for Daylight Saving Time changes. When the hour "jumps forward" no video is lost because an hour is skipped. However when the hour "falls back" there is a duplicated hour that under normal circumstances would be recorded over. The Surveillix DVR actually records both hours and allows the user to select which hour to play if the need arises.

To access the 'lost hour':

- 1. From the Search screen, click the Calendar button.
- Select the date when Daylight Saving time 'lost' an hour. The Daylight Saving option appears.
- To play back the 'lost hour', select the Daylight Saving check box and enter the repeated hour in the time box.
- Click OK to confirm the date and begin playing the video using standard search features.



SAVE TO JPG OR AVI

The DVR can export single images in a JPG Image file format and save video clips in an AVI format. Both JPG and AVI file formats are the most commonly used graphical formats today. Virtually every computer offers some type of support for these file formats which make them the most ideal formats to use.

- JPG Optimized for compressing full-color or grayscale photographic images, JPG images are 24-bit (16.7 million color) graphics. Use JPG to export a single image or frame.
- AVI image data can be stored uncompressed, but it is typically compressed using a Windows-supplied or third party compression and decompression module called a codec. AVI is used to export a video clip.
- 1. From the Search screen, click Save.
- 2. Select the Export Type: Image File (JPG) or AVI File.

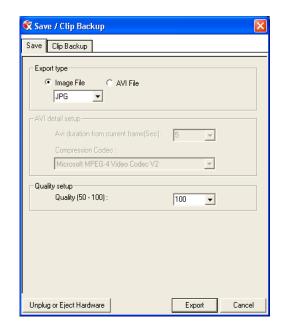
Note Different image format types provide different file-sizes, quality and compatibility.

Image File

 Select Quality (50>100). When size is not an issue, set the quality to 100.

AVI File

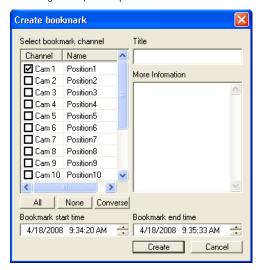
- a. Enter the duration (seconds) to record. Although 100 is the longest time displayed, a longer recording may be entered manually.
- b. Select a **Compression Codec**. Each codec provides different levels of quality, compatibility and file-size.
- Select Quality 50>100. When size is not an issue, set quality to 100.
- Click Export to save file. The Cancel button exits the window without exporting file.



Bookmarks

Use bookmarks to mark a video clip during a search. Export bookmarked data using the Clip Backup feature.

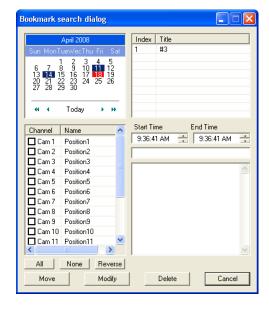
- 1. Perform a search for the desired video.
- 2. Stop playback at the beginning of the desired clip.
- 3. Right-click the video and select **Start Bookmark**.
- 4. Click the play button to continue playback.
- 5. Stop playback at the end of the desired clip.
- Right-click the video at the desired end point and select End Bookmark
- 7. Type a name to identify the bookmark in the Title box.
- 8. Enter a memo or notes in the More Information box.
- 9. You may also select additional channels to include video at different locations recorded at the same time.
- 10. Click Create.



Modify Bookmarks

You can modify a previously created bookmark to change the start or end time of the clip, add additional comments, change the title, or add additional cameras.

- From the Search screen, click Graphic Search and then click Bookmark.
- On the calendar, select the date the desired bookmarks were created
- 3. Select the desired bookmark from the list.
- 4. Make the desired change.
- 5. Click Modify.
- When the modification is complete, click Cancel to close the window.



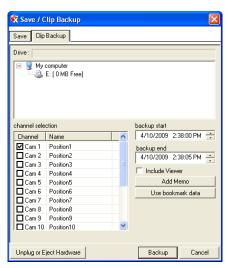
Single Clip Backup

Along with the Save option, a single camera backup option is also included with the Surveillix software. The single Camera or Clip Backup allows the user to backup a single camera without hAVIng to backup multiple cameras at a given time. The Clip Backup option gives the users the ability to choose a backup time frame, choose a specific camera, add memos, and even make a copy for the Backup Viewer if needed.

- 1. From the **Search** screen, click **Save**.
- Select the drive from the file tree to save data to. (Hard disk drive, removable drive (USB), CD/DVD drive)
- Select cameras from the list.
- 4. Define the **Start** and **End** time of the backup clip.
- Select the Include Viewer check box to include a copy of the proprietary Backup Viewer Software to view the clip on virtually any Windows machine.
- 6. Click Add Memo to include additional information.
- Click Backup to start the backup.

Note

If backing up to a removable USB device click the Unplug or Eject Hardware button after backup is complete to safely remove the device.



Single Clip Backup Using Bookmark Data

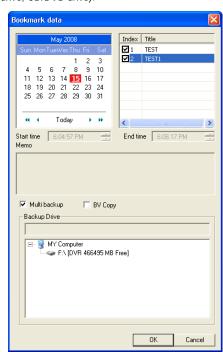
- 1. From the **Search** screen, click the **Save** button.
- 2. Select the drive from the file tree to save data to. (Hard disk drive, removable drive, CD/DVD drive).
- 3. Click Use Bookmark Data.
- On the calendar, select the date the desired bookmarks were created.
- 5. Select the desired bookmark from the list and click **OK**.

Note To include multiple bookmarks in a clip backup, select the Multi Backup check box before selecting the desired bookmarks.

- 6. Select the **BV** Copy check box to include a copy of the proprietary Backup Viewer software to view the clip on virtually any Windows machine.
- 7. Click Add Memo to include additional information.
- 8. Click **Backup** to start the backup.

Note

If backing up to a removable USB device click the Unplug or Eject Hardware button after backup is complete to safely remove the device.

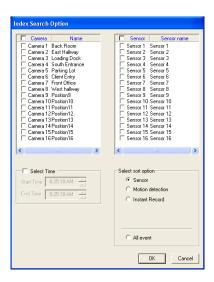


INDEX SEARCH

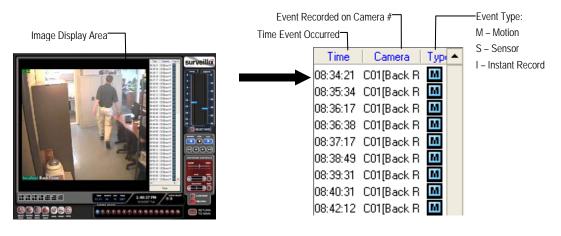
Using the Index Search can greatly decrease the amount of time spent searching through saved video. The Index Search allows a user to perform a search based on criteria such as Sensor, Motion and Instant Record events

Performing an Index Search

- 1. Click the Calendar button on the **Search** screen to select the date to search.
- 2. Click Index Search.
- 3. Select the cameras and sensors to include in the search.
- 4. Select the **Select Time** check box to define a specific period.
- Select an event type to search (Sensor, Motion, Instant Record) or select the All Event option.
- 6. Click OK. There may be a delay while results are returned. Results will be displayed in a column on the left side of the screen Each line represents a segment of video. If no results are found, "NO IMAGE FOUND" will appear in the column.
- Once the results are displayed, double-click any one to play the associated video
- 8. Once the desired image is found, apply it to the Main Search by clicking the Close button at the bottom of the results column.



Index Search Results Display



PREVIEW SEARCH

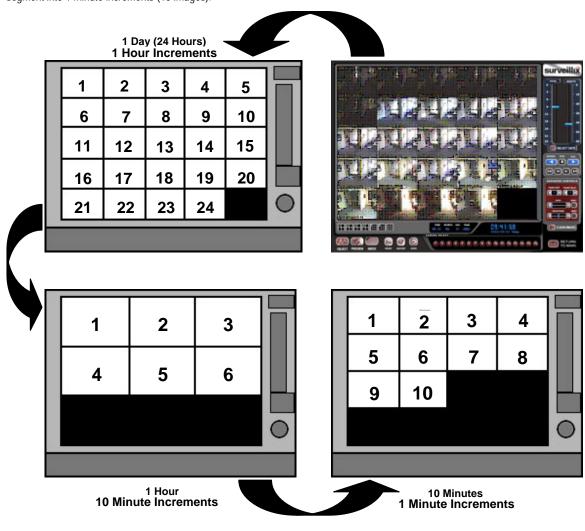
Preview Search can be used in a number of circumstances to quickly find an exact moment where an event, such as a theft, occurred. The Preview Search gives a 24 Hour visual overview of a single camera by separating a 24 hour period (1 day) into 24 images, one image for each hour of the day. The search can then be further narrowed down into ten minute increments and one minute increments by selecting one of the images displayed.

These example images show how the Preview Search functions.

The first screen that appears has 24 images displayed. Each image represents the first second of each hour. If there is no image recorded during that period then nothing will be displayed.

When an hour is selected (by double-clicking on the image), a new screen appears with 6 images. Each of these images represents a 10 minute segment of video within the selected hour.

Once a 10 minute segment is selected (by double-clicking on the image) the final screen appears which breaks down that 10 minute segment into 1 minute increments (10 images).

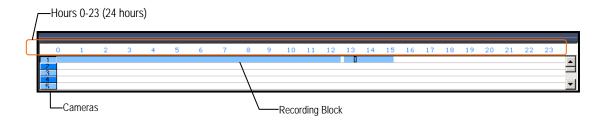


Performing a Preview Search

- 1. Select a single camera by either turning off all cameras but one or double-clicking a displayed image.
- 2. Click **Preview Search**. 24 images display. If there is no recorded video during a portion of the day, "No Image" will be displayed where the image should be.
- 3. Refine the search by double-clicking on an image to select it. 6 images display. If needed, return to the previous 24-image view by right-clicking on an image.
- 4. Refine the search by double-clicking on an image to select it. 10 images display. If needed, return to the previous 6-image view by right-clicking on an image.
- 5. Double-click an image to select the 1-minute segment of video to play. A single image displays. If needed, return to the previous 10-image view by right-clicking on an image.
- 6. Use the Play controls to play the video of the selected segment.
- 7. To exit out of the Preview search with the current image still selected, click Preview Search again to clear it.

GRAPHIC SEARCH

The Graphic Search option displays video in graph format.

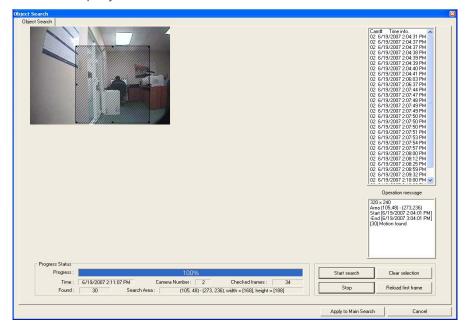


Performing a Graphic Search

- 1. Click Graphic Search and then click Recording Status on the Search screen.
- 2. Click the calendar icon to select a day.
- 3. Click on an area of the blue recording block. Only one camera can be displayed at a time.
- 4. Recorded video from the corresponding camera and time block will display above.
- 5. Use the mouse or arrow buttons to move through recording blocks and view video.

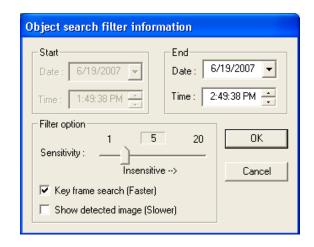
OBJECT SEARCH

Object Search is a powerful search utility that is used to search a region on the video for any motion changes. Results are neatly displayed and can be viewed quickly.



Performing an Object Search

- 1. Perform a Basic Search. See the instructions on Performing a Basic Search.
- 2. Select a single camera, either by turning off all cameras but one or by double-clicking a displayed image.
- 3. Click Object Search on the Search screen.
- 4. Click and drag the mouse on the video display to define a motion region area. Resize by pulling on the small square boxes located on the outer perimeter of the area.
- Click Start Search, the Object Search Filter Information window will open
- 6. Select an **End** date/time. One hour is the default setting.
- 7. Adjust the sensitivity if necessary.
- 8. Click OK.
- Select a motion event from the search results list displayed on the right
- Click Apply to Main Search to display the selected image in the main Search screen and to use play controls
- To start a new object search using the original image, click Reload First Frame.
- To exit Object Search without selecting an image, click Cancel.

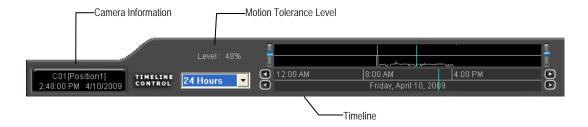


MOTION SEARCH

The Motion Search provides a dynamic display of the levels of motion in recorded video. Adjust the level of motion to only play clips of video at or above that level.

Tip To enable motion data to be saved for Motion search, ensure that you select the following settings:
On the Motion setup page under Motion Regions, select the Detect Detail Motion Area check box.
On the General setup page under Display, select the Motion Detect on Continuous Recording check box.

Note Motion Search is only available for newly recorded video; it is not compatible with video recorded prior to version 3.6.



Performing a Motion Search

- 1. From the Search screen select a camera. Motion Search can only be performed on one camera at a time.
- 2. Click Graphic Search and then click Motion Search.
- 3. Click the calendar icon to select a day.
- 4. Adjust the motion level line.
- 5. Adjust the timeline display settings.
- 6. Click the play button to start playback.

Tip You can drag the blue line on the Timeline or motion level box to adjust the time.

AUDIO PLAYBACK

Audio is played back at 48,000Hz.

To play audio with the video:

- 1. Select a single camera by turning off all cameras but one using the Camera Select buttons. The audio buttons will be displayed.
- 2. Select a single audio channel to play. When an audio channel is selected, the Time Sync button will be automatically selected.
- 3. Click Play.

SEARCH IN LIVE

The Search in Live feature allows users to review events immediately while monitoring live video. Pause, rewind, and resume live video within seconds of an alarm event or suspicious activity.



- 1. Move the mouse cursor over the desired live video display on the Live Display screen.
- 2. Press the scroll button on the mouse.
- The search in live Controls will display at the bottom of the image.
- Use the controls to pause, rewind, move frame-by-frame or resume playing as desired.



NOTES:

PAN / TILT / ZOOM

This chapter includes the following information:

- Overview
- Setting up the PTZ
- Creating and Viewing a Preset Position
- Creating and Viewing a Preset Pattern

PAN / TILT / ZOOM OVERVIEW

The PTZ controls within the DVR allow for powerful control over the cameras. This can be extremely beneficial by increasing the usefulness of the recorded video. Using the PTZ controls you can create custom preset configurations that can continuously sweep across large areas.

NOTE PTZ setup and control is only available for supported video encoders with a PTZ RS-485 pass-through.

SETTING UP A PTZ CAMERA

Setting up a PTZ Camera is simple. The DVR comes preassembled with an internal PTZ adapter. The cabling may be run up to 4,000 ft using 22 Gauge Twisted Pair.

It is important to understand how the PTZ connects to the DVR. The DVR outputs an RS-232 signal and converts it to an RS-485 signal which is then sent to the PTZ camera.

Refer to the Connections section of this manual for information on connecting the PTZ camera to the DVR.

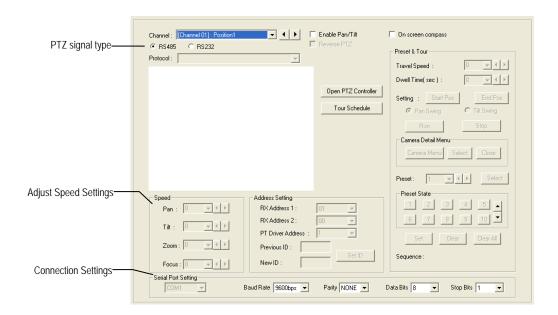
Enable the PTZ Settings

- 1. Inside the DVR PTZ Setup, select the PTZ camera using the Camera Channel list.
- 2. Enable the PTZ functions of the camera by selecting the Enable Pan/Tilt check box.
- Select the appropriate Protocol and set the PTZ Driver Address and Serial Port Settings (See Advanced PTZ Setup in this chapter).

Note The majority of major PTZ manufacture protocols are included in this software. Refer to the Supported Protocols list in this manual.

- Click Apply and then click Exit.
- 5. From the Display screen, click PTZ (See the chapter on DVR Basics). The PTZ Controller will open.
- Select the PTZ camera to control by clicking on its video on the display screen. The camera number will appear inside the PTZ controls.
- Using the PTZ controls, move the PTZ around.

ADVANCED PTZ SETUP



Note Preset and Tour options may vary depending on the camera

Creating and Viewing Preset Positions

A Preset Position is a user-defined location where the camera can be pointed, zoomed in, and focused. Preset positions can be defined and labeled if the camera supports this.

Creating a Preset

- 1. Inside Setup, click PTZ and select the camera.
- 2. If the camera is already selected click Open PTZ Controller.
- 3. Move the selected camera to the desired position using the Pan/Tilt/Zoom/Focus controls.
- In the Preset & Tour Detail section, choose a Preset # (1-10)
 using the list or the Right and Left Arrow buttons and click Select.



Note Preset positions can also be created using the advanced buttons on the PTZ graphical controller.

Viewing a Preset

- 1. From the Display screen select the PTZ camera by clicking on it.
- 2. Using the keyboard click the number keys corresponding with the Preset Positions. The camera will move to the saved Preset.

PTZ Address Settings

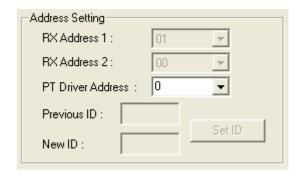
Some protocols support software address settings.

The RX Addresses and ID settings are compatible with a particular line of receivers that support 2 ID addresses.

The PT Driver Address is associated with the PTZ ID address set on the camera. The addresses must match for the DVR to communicate with the proper PTZ camera. This is especially important when a large number of PTZ cameras are connected to the DVR.

Note To select a PT Driver Address of 129-254, manually

enter the ID in the box.



ACCESSING PTZ MENUS

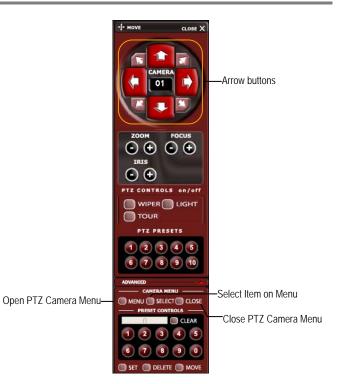
Some protocols support the ability to access the Internal PTZ Onscreen menu.

Since every PTZ camera is different, the functions of these options can vary slightly.

The Surveillix DVR provides an easy way to access the cameras options. For explanations of what those options are please refer to the manual that came with the camera.

Note

Use the arrow buttons on the PTZ controller move through the PTZ menu options and/or highlight options.



CONTROLLING A PTZ CAMERA

The Surveillix DVRs provide control for a PAN/TILT/ZOOM camera in two different ways.

The first method is to use the Graphical PTZ Controller that appears when the PTZ button is clicked on the Display screen.

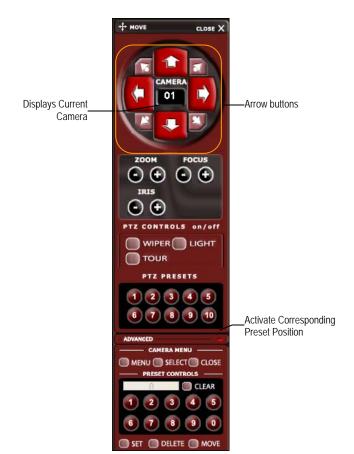
The second method is to use the mouse to control the camera directly from the live video display. (On-Screen Compass)

Using the Graphical PTZ Controller

- Use the Arrow buttons to control the direction of the PTZ camera.
- To select a new camera, click the video display of a different camera on the Display screen display.

Note

Eight directions are available only for select protocols. Only four of the PTZ Control buttons work for all protocols (UP, DOWN, LEFT, RIGHT).



Using the On-Screen Compass

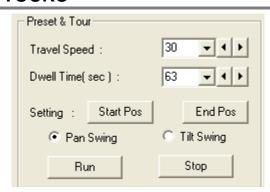
- 1. Click Setup on the Display screen.
- 2. Click PTZ.
- 3. Select the On Screen Compass check box to enable the feature.
- Click Apply.
- 5. Click Exit to return to the Display screen.
- Click PTZ.
- Control the PTZ by dragging the mouse on the screen in the desired direction.



Note

A green line will appear to show the direction the PTZ will move. The shorter the line the less the PTZ will move. The longer the line the more the PTZ will travel in the specified direction.

UNDERSTANDING TOURS



Travel Speed The speed between one Preset position to the next

Dwell Time The length of time (in seconds) that a PTZ Tour displays a Preset Position.

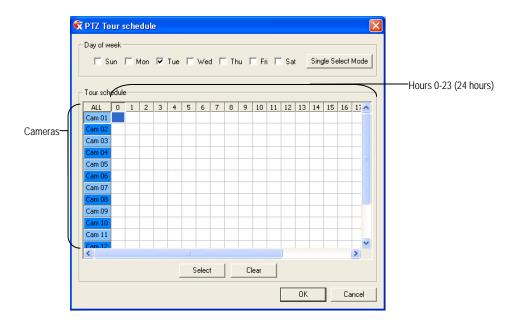
Setting: Start Pos / End Pos Define a Mimic Tour. The Start Position button begins the 'recording' process. The Stop Position

button ends it.

Pan Swing / Tilt Swing This option enables the Horizontal (Pan) or Vertical (Tilt) 'Guard Tours'.

Run / Stop Runs the selected Pan or Tilt Tour.

PTZ Tour Schedule



Create PTZ Tour Schedule

- 1. Click **Setup** on the Display screen.
- 2. Click PTZ.
- 3. Click Tour Schedule to open the PTZ Tour Schedule window.
- 4. In Single Select Mode select one day of the week to create a schedule for or toggle to Multi Select Mode to select multiple days with the same schedule.
- 5. Click and drag the mouse cursor to select blocks of time (hours 0-24) and corresponding cameras.
- Click Select.
- 7. When finished click **OK** to save changes and close the window.

NOTES:

BACKING UP VIDEO DATA

This chapter includes the following information:

- Overview
- Saving Video to a DVD
- Saving Video from a Single Camera
- Scheduling Regular Video Backup

BACKUP OVERVIEW

The Backup Center allows you to back up recorded video data from multiple dates and times to one or more locations including the DVD-RW drive, Network Storage Locations, and External Hard Drives.

The DVR can easily backup important video data to an internal or external media location. The most commonly used forms of this are CD-R/RWs, External USB or FireWire Hard Drives, and Network Drives. Every DVR comes equipped with a DVD-RW drive, USB port, and Network Adapter.

The DVR is capable of performing a backup to multiple CD/DVDs when the file sizes exceed the capacity of a single disk. You may also specify multiple locations for backup as well as the order they are recorded to.

The DVR backs up video data using a proprietary compression format that can only be read by the DVR Backup Program. This ensures the integrity of the data.

Throughout the backup process the DVR will continue recording without interruption. This is the result of the tremendous multiplexing power of the DVR, which allows it to perform virtually all functions without disrupting the recording process.

Nero® Express

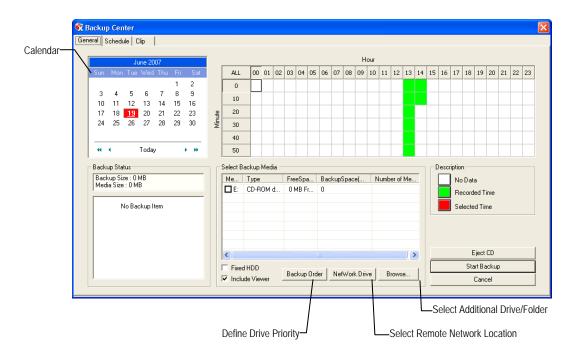
The DVR uses Windows® XP® Embedded running Nero® Express 8 to write data to the DVD-RW Drive. This solution allows the DVR software to read and write data to the DVD-RW Drive without formatting the disk first.



CAUTION: Although many features are available within Nero, it is highly recommended that you do NOT use any features other than those necessary for the standard backup of video data as outlined in this section, loss of information or software instability may result.

General Screen Overview

The General Backup Screen is used for performing bulk backup of video recorded by all cameras for a selected period, or periods, to a specified storage location.



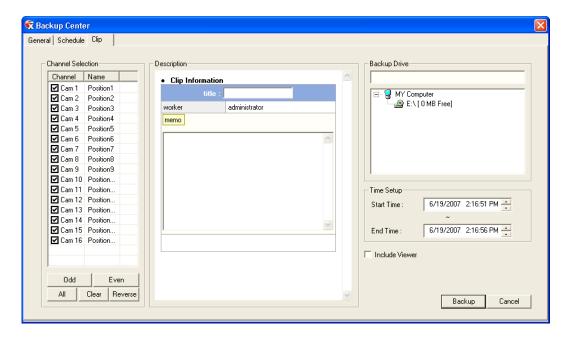
Hour / Minutes	Recording data displays in hourly (24 horizontal columns) and 10-minute (6 vertical cells) segments. Green cells indicate time with recorded video. Red cells indicate time selected for backup.
Backup Status	Displays the size of all video currently selected for backup, the available size of the media currently selected for backup to, and the dates and times of video currently selected for backup.
Fixed HDD	Display all Hard Drives

Performing a General Backup

- 1. Click Backup on the Display screen.
- 2. Select the date or dates to back up using the calendar. Dates highlighted in blue contain recorded data.
- 3. Select the blocks of time to back up using the Hour/Minute grid. Blocks of time with recorded video are highlighted in green. Blocks of time selected for backup are highlighted in red.
- Select the backup drive or drives under Select Backup Media, or click Network Drive, or Browse. When selecting the CD-RW
 Drive you must specify the number of CDs to use for backup.
- 5. Click **Backup Order** to set the backup order.
- 6. Select the **Include Viewer** check box to include the Backup Viewer Application.
- 7. Click Start Backup to begin the backup process. A progress bar will be displayed in the lower right corner of the Display screen.

Clip Screen Overview

The Clip Screen is used for backing up video recorded by individual cameras for a selected period of time to a specified storage location



Performing a Clip Backup

- 1. Click Backup on the Display screen.
- 2. Click the Clip tab at the top of the Backup Center window.
- 3. Set the Start Time and End Time under Time Setup.
- 4. Select the cameras to back up in the **Channel Selection** box.
- 5. Select the **Backup Drive** to save the backup video to.
- 6. Select the Include Viewer check box to include the Backup Viewer Application.
- 7. Enter pertinent clip information into the Clip Information section in the Description box.
- 8. Click Backup to begin the backup process. A progress bar will be displayed in the lower right corner of the Display screen.

Scheduled Screen Overview

The Scheduled Backup Screen is used for performing bulk backup of video recorded by all cameras for a selected period, on a regular scheduled basis (1-24 hours). The Scheduled Backup Screen is similar to the General Backup Screen.

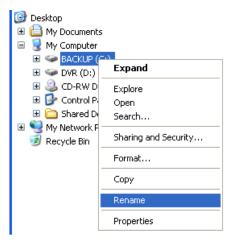
Performing a Scheduled Backup

- Click Backup on the Display screen.
- Click the Schedule tab at the top of the Backup Center window.
- Select the blocks of time to back up using the Hour/Minute Grid. Blocks of time with recorded video are highlighted in green. Blocks of time selected for backup are highlighted in red.
- Set the Backup Time to perform the backup.
- 5. Set the Repeat Backup Time to specify the number of hours between backup procedures (between 1 and 24 hours).
- 6. Select the **Backup Drive** to save the backup video to using the **Select Backup Media** menu or the **Network Drive** button. To save to a local drive or partition you must first rename the location "Backup".
- 7. Check the Overwrite on Disk Full check box to overwrite previous scheduled backups when the disk becomes full.
- 8. Click Save Backup Setting to save the current backup setting and return to the Display screen.

Specifying Scheduled Backup Drives

In order to use the Scheduled Backup feature one or more storage drives or partitions connected to the DVR must be labeled as a backup drive.

- Exit and restart in Windows mode.
- Double click the My Computer icon on the DVR desktop. A file menu will be displayed.
- Right click on the drive to specify as a backup drive for Scheduled Backup and click Rename. Rename the drive to 'Backup'. Repeat this process for all drives to use for Scheduled Backup. To remove a drive from use for Scheduled Backup, change its name to something other than 'Backup'.
- Restart the application and return to the Schedule tab in the Backup Center window.



NOTES:

LAN / ISDN / PSTN CONNECTIONS

This chapter includes the following information:

- Overview
- Configuring TCP/IP Settings
- Connecting to a LAN
- LAN / ISDN / PSTN Connections

LAN OVERVIEW

The DVR can be easily connected to a Local Area Network (LAN) and uses Microsoft's® powerful and secure Windows® XP Embedded operating system. This allows for easy and well-documented instructions on setting up LAN connections no matter what type of LAN you want to use.

A LAN is a group of computers and other devices dispersed over a relatively limited area and connected by a communications link that allows one device to interact with any other on the network.

There are many reasons why using Microsoft® Windows® XP Embedded is superior to other platforms when running on a LAN. The number one reason is security. Windows XP Embedded is based on NT technology, which, historically has boasted the most reliable and secure Operating System in the world. Running the DVR on a secure network is important to prevent unwanted users from gaining access to confidential information. Unwanted users can compromise the integrity of the confidential data being stored and viewed, and in extreme circumstances can cause irreparable damage to the network.

Since connecting the DVR to a network can be extremely complex (depending on the network), this Surveillix DVR manual will cover only the basics. It is suggested that the DVR administrator consult the Vendor or IT Administrator before attempting to create or connect to a LAN.

CONNECTING TO A LAN USING TCP/IP

The networking options of the DVR can create and edit all Network settings available on Windows XP Embedded. The DVR comes equipped with a 10/100 Network Interface Card (NIC). This card uses a standard RJ-45 connector.

Configuring TCP/IP Settings

- 1. On the Display screen, click **Exit** and select **Restart in Windows Mode**.
- 2. Right-click the My Network Places icon located on the desktop and select Properties.
- 3. Right-click Local Area Connections and select Properties.
- 4. Select the Internet Protocol (TCP/IP) by clicking on it once. Once it is highlighted, click **Properties**.
- 5. Select **Use the Following IP Address** option. Enter the **IP Address** and **Subnet** mask appropriate for the network. It is recommended to contact the Network Administrator for appropriate IP settings.

Example: a. Common IP addresses are 10.0.0.25

b. Common Subnet masks are 255.255.255.0

Note In order to connect to the DVR through a remote LAN connection, a static IP address must be assigned. If the network assigns the IP address automatically (DHCP), contact the Network Administrator for help assigning a static IP address.

- If the network requires you to specify the DNS information, enter it now by selecting the appropriate DNS options.
- 7. When finished configuring the TCP/IP settings click **OK** to close the **Internet Protocol (TCP/IP) Properties** window.
- Click OK to close the Local Area Connection Properties window.
- It may be required to restart Windows for the changes to take effect. Restart windows by clicking START on the desktop and clicking Restart.

LDAP INTEGRATION

This chapter includes the following information:

Installing LDAP

FEATURES

The instructions below are for LDAP Integration with Server Software version 3.6.36 and above.

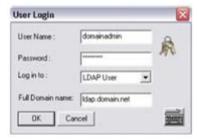
- DVR server does not need to be joined to the Domain. The DVR server will query the LDAP server for accounts and authorization levels.
- The DVR server creates groups within Active Directory for each of the permissions on the DVR. Simply join a Domain user to these groups to provide access to that function in the DVR.
- DVR access within Active Directory is based on the Site Code within the DVR software. This allows an administrator to group DVR's with the same Site Code.
- Remote and Multi-Site management software works with LDAP logins.

INSTALLING LDAP

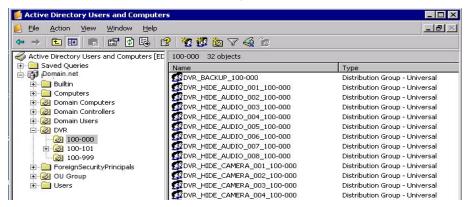
Required Items

- Name of LDAP server.
- Account in LDAP server that has Domain Admin rights. This user will be used initially to create the OU's and Groups within Active Directory.
- Verify that the DVR server is connected to a network that has a valid LDAP (Active Directory) server.
 Ensure that the TCP/IP settings are configured correctly for DNS resolution and gateway if needed.
 Check to verify that you can ping the LDAP server without issues.
- 2. Set up DVR Site Code to be used for LDAP authorization. The default will be 100-000. This site code can be used to group DVR's together within Active Directory.
 - a. Log in to the DVR using the local DVR administrator account (non-LDAP).
 - b. Navigate to the Setup -> Information tab and change the Site Code.
- Log on to the DVR server with the domain account with administrator privileges (see above required items).
 - If successful, the DVR will log the administrator user on without any error messages. You may log off the DVR once this is completed without errors.

Note If you encounter an error please verify that the above required items are correct.



4. Go to the Active Directory Users and Computers application. You should now see an OU called DVR with an OU inside of it named the same as the Site Code above (example 100-000).



5. You can now add users within Active Directory to the groups the DVR has created. When a user belongs to a group he or she will have access (or be denied access in the case of Audio or Camera channels) to that permission on any DVRs with that site code.

Group	Description
DVR_BACKUP_100-000	Backup access to DVRs with site code 100-000
DVR_HIDE_AUDIO_0XX_100-000	Hides audio channel XX for site code 100-000
DVR_HIDE_CAMERA_0XX_100-000	Hides camera XX for DVRs - site code 100-000
DVR_INSTANT_100-000	Instant recording access to DVR
DVR_PTZ_100-000	PTZ access to DVRs - site code 100-000
DVR_PTZEX_100-000	Access to advanced PTZ control
DVR_RELAYOUT_100-000	Access to toggle relays from live view
DVR_SEARCH_100-000	Access to search on DVRs - site code 100-000
DVR_SETUP_100-000	Access to setup on DVRs - site code 100-000
DVR_SHUTDOWN_100-000	Grants the ability to shut down the DVR server

Note The above site codes may be different depending on what site code the DVR server had when it was logged into LDAP.

6. You can now log into the DVR server using any of the Active Directory users who belong to one of the above groups.

NOTES:

WEB VIEWER

This chapter includes the following information:

- Overview
- Configuring the Web Viewer

WEB VIEWER OVERVIEW

The DVR allows you to access video using Microsoft® Internet Explorer® 7.

Highlights:

View Live Video from most computers

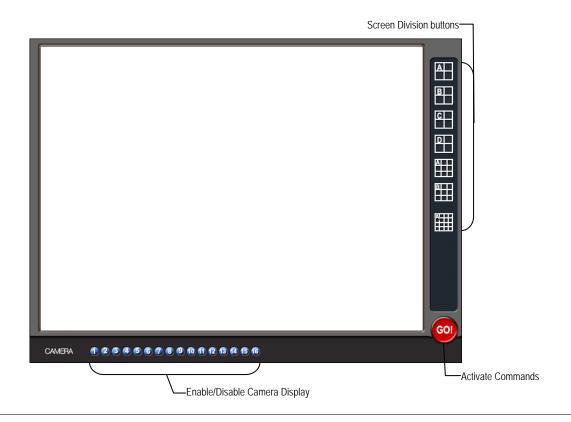
Username and Password protected

Easy to use graphical interface

Basics:

75 users can access the Web DVR simultaneously. The Web Viewer is an easy, secure way to view live video from virtually any computer with an internet connection using Microsoft Internet Explorer.

In order to log in to the DVR server, a user account must be made for the user. This ensures that only authorized personnel are allowed to log in. In addition, each user can be assigned different privileges that allow them or deny them access to different functions. For example, a user can be granted access to only view cameras 4, 8 and 16.



Configuring the Server for Remote Connection

- 1. Click **Setup** on the main display screen.
- 2. Click Network.
- 3. Clear the Disable Remote Control check box. You should now be allowed to adjust port settings if necessary.

NOTE: If you are using a Firewall, it may be necessary to adjust the port settings on both the DVR and the Firewall. Contact the Network Administrator for more information.

- 4. Select the Web Viewer (iDVR) check box.
- Click Apply.
- Make sure a User account is created. Without a user account, the Administrator account must be used.
- The DVR server is now ready to receive incoming connections.

Connecting to a DVR Using Web Viewer

- 1. Open Microsoft Internet Explorer.
- 2. Enter the IP address of the DVR into the Address Bar.
- When attempting this for the first time on a computer a window will open and you will be asked to accept an Active X installation. Select Yes to this.

NOTE: If you receive a message saying Internet Explorer® security settings do not allow you to download Active X components then you will need to adjust the browser security settings. One way to do this is to add the IP address of the DVR to the trusted sites list inside Internet Explorer® settings. Contact the System administrator for additional help with adjusting Internet Explorer® settings.

- 4. When the Web Viewer finishes loading, select one or more cameras (or select a screen division button).
- 5. Click GO!
- **6.** A login window will appear. Enter the **Username** and **Password** of an authorized user.
- The cameras will display.

Closing the Web Viewer

To exit the Web Viewer close Internet Explorer.

INCLUDED SOFTWARE SETUP

This chapter includes the following information:

- Emergency Agent Overview
- Remote Software Overview
- Digital Verifier
- Backup Viewer

EMERGENCY AGENT OVERVIEW

The Emergency Agent software is a utility that streams video across a Local Area Network to a Client PC when an alarm is detected on the DVR. The video that streams across can be stopped, played forwards and backwards, in slow motion or real speed.

The utility is loaded at startup and placed in the taskbar. It constantly monitors for a signal from the DVR. When an alarm signal is detected the Emergency Agent Image Viewer window opens and starts playing the video from the camera associated to the alarm.

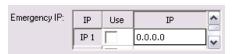
Configuring the DVR

To enable the Emergency Agent on the DVR follow these steps:

- Enter Setup and confirm you are in the Camera Setup menu.
- 2. Select a camera and then associate sensor(s) to that camera using the Sensor Connection check boxes.
- 3. Click the Network Setup button and make sure that Disable Remote Control is cleared.

Note The Emergency Agent uses one port to transfer the data through (the Emergency Port). The port can be adjusted inside the Network Setting menu if necessary. It is recommended that the default setting should be used unless the port must be changed.

- 4. Click the Schedule Setup button. Enter the IP Address of the computer running the Emergency agent software.
- 5. Click the box next to the IP Address to enable it.
- 6. Select the Sensor radio button.
- 7. Create a schedule for the appropriate sensor
- 8. Click Apply.



Configuring the Client PC

All configurations take place in the Emergency Agent window on the Client PC for descriptions and locations of the buttons and features of the Emergency Agent window refer to the Emergency Agent window section later in this chapter.

- 1. Open the Emergency Agent window on the Client PC Start >All Programs > Surveillix > Emergency Agent > Emergency Agent
- Right Click in the DVR list and select New. Enter the DVR Code, DVR Name, and IP Address of the DVR to connect to in the Site Edit window that opens. Click OK
- 3. Click the Options menu and select Setup.
- 4. Confirm that the Network Port in the Setup window is set to the same number as the Emergency Port in Network Settings on the DVR. If the numbers are different adjust the Network Port on the client PC to match the DVR.
- 5. Click the OK button
- 6. Restart the Client PC



Setup Window

Network Port Indicates the port which the Emergency

Agent uses to listen for incoming events. This number should be changed to the same number as is set in the Emergency Port in

Network Settings on the DVR.

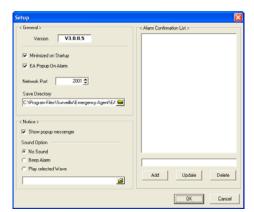
Save Directory Sets the location that recorded video footage

is saved to.

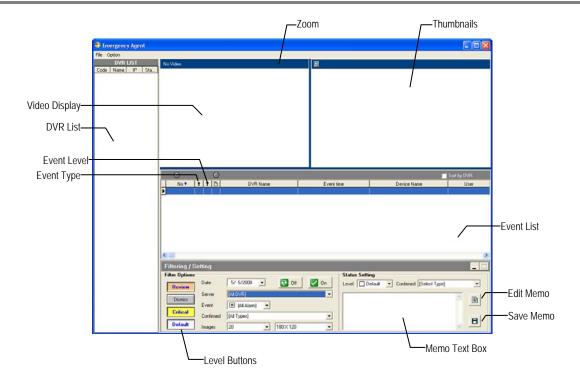
Notice Options Configuration settings for activating an

audible indicator or popup window when the

Emergency Agent receives an event.



EMERGENCY AGENT WINDOW

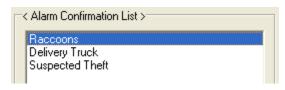


Filter Event List

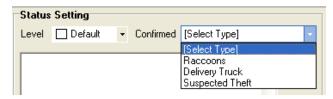
- 1. Select a DVR from the **DVR List** in the **Filter Options** section.
- 2. Select the **Date** to include.
- 3. Select the type of Events to include.
- 4. Select the event levels (Review, Dismiss, Critical, Default).
- 5. Click the **On** button to display filtered event listings.

Add Items to Alarm Confirm List

- 1. From the Option menu, click Setup.
- 2. Type the desired text in the box below the Alarm Confirmation List.

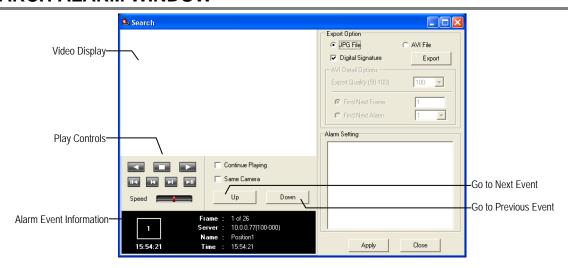


NOTE: The items in the Alarm Confirmation List will be available on a list under Status Setting in main Emergency Agent screen.



- 3. Click Add.
- 4. Click **OK** to save changes and close the window.

SEARCH ALARM WINDOW



Export Quality It may be necessary to reduce the overall size of an AVI file; for example, to email to someone.

AVI file sizes can be reduced by reducing the image quality. However, reducing the image quality causes the AVI video to appear more pixilated. When size is not an issue, setting quality to 100 is

highly recommended.

Digital Signature Adds a digital signature to the exported JPG image for use with the Digital Signature Verifier to

verify integrity of exported images and prevent tampering.

View Recorded Video

- 1. Double-click an event listing to open the Search Alarm window.
- 2. Use the play controls to locate the desired video.
- Select the Continue Playing check box to watch all recorded events. When cleared, playback stops at the end of the alarm event
- 4. Select the Same Camera check box to watch all events recorded by a single camera.
- Click Apply after making any changes.

Export Video

- Double-click an event listing to open the Search Alarm window.
- 2. Use the play controls to locate the desired video.
- 3. Click the Rewind button to return to the beginning or desired spot in the video.
- 4. Click the Stop button.
- 5. Select the **Export Option** JPG or AVI.

Save JPG:

- a. Select the Digital Signature check box to embed a digital signature in a JPG file.
- b. Click the Export button.

Save AVI

- a. Reduce Export Quality only if necessary to reduce the size of the file.
- b. Click the Export button.

REMOTE SOFTWARE OVERVIEW

The DVR was specifically designed to be fully operated and maintained remotely. It connects using the standard TCP/IP protocol thorough connection types such as DSL, Cable Mode, T1, ISDN, 56K Modem, LAN, and more. The Surveillix Remote software allows you to view live video, search through archived video, export images and video clips and have virtually full Setup control. Surveillix Remote Software is Microsoft Vista® compatible.

Highlights:

Search archived video

View live video

Export images and video clips

Control relay outputs

Setup administration

Basics:

The DVR can have up to 5 simultaneous remote connections. Each user can perform functions on the DVR and will not affect the other users. The only exceptions to this are accessing Setup and controlling a PTZ camera. Only one user is allowed to access setup or control a PTZ camera at any given time. The pictures per second passed to the Remote Client vary greatly depending on the connection type and speed.

In order to log in to the DVR server, a user account must be made for the user. This ensures that only authorized personnel are allowed to log in. In addition, each user can be assigned different privileges that allow them or deny them access to different functions. For example, a user can be denied Searching and Setup privileges and only granted access to view cameras 4, 8 and 16.



It is highly recommended that users not be granted Setup privileges since this can pose a security risk. Only properly authorized Administrators should have access to Setup.

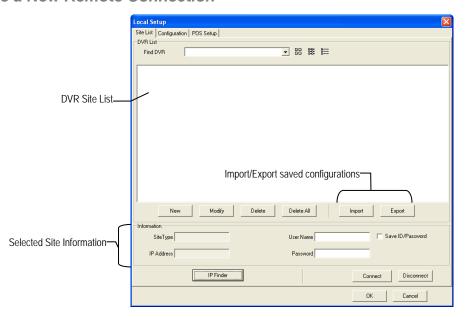
The Remote software operates virtually the same way as the DVR itself. The appearance of it matches the DVR almost identically; however, there are a few minor differences. Some search features are not available (such as the Index and Object Searches) as well as some Setup options.

Remote Software Setup

Installing Remote Software

- 1. On the client computer, insert the Surveillix Software CD into the CD-ROM. The CD should play automatically.
- 2. When prompted, select the Install Remote Software option. Follow the installation instructions carefully.
- 3. When the software finishes installing, close any open installation windows.

Create a New Remote Connection

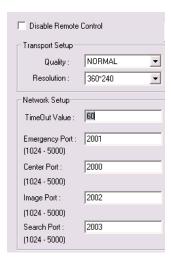


- Select Start > Programs > Surveillix > Remote > Surveillix Remote Center. The Surveillix Remote Software opens and the Local Connection window opens.
- 2. Click **New** to open the **Site Info** window.
- 3. Select the Site Type and enter a Site Name. The Site Name will be the name displayed inside the connection box to help identify the unit.
- 4. Enter the IP Address of the DVR server. By default the DVR is set to connect using DHCP.
- 5. Enter the Center Port. This setting is specified on the server.
- 6. Click OK.
- 7. Click on the newly created connection and enter the login username and password. (case sensitive)
- 8. Click Connect.

Configuring the DVR

In order to access the DVR remotely, the DVR Server must be setup to allow remote connections.

Time Out Value	Specifies a value (in seconds) to wait for a signal from the Surveillix Remote Client. If a signal is not received by that time, the connection is dropped.
Center Port	Used to transfer the connection data.
Image Port	Used to transfer the image data.
Search Port	Used to transfer the search data.



Configuring the Server for Remote Connection

- 1. Enter Setup on the DVR.
- 2. Click **Network** to open the Network menu.
- 3. Clear the Disable Remote Control check box. You should now be allowed to adjust port settings if necessary.

Note If you are using a Firewall, it may be necessary to adjust the port settings on both the DVR and the Firewall. Contact the Network Administrator for more information.

- 4. Click OK
- Make sure a user account is created (See Creating a New User in the Setup Section). Without a user account, the Administrator account must be used.
- 6. The DVR server is now ready to receive incoming connections.

DIGITAL VERIFIER OVERVIEW

JPG images and AVI video files that are exported from the Digital Video Recorder are automatically embedded with a digital signature. Digital Signatures are a way to verify the authenticity of the images to ensure that they have not been tampered with or edited in any way. Included on the Software Installation DVD supplied with the DVR is the Digital Signature Verification program. This program can be installed on any computer and loads an image in question.

Installing the Digital Verifier

- 1. Insert the Software Installation CD into the CD-ROM. (Do not install on the DVR.)
- 2. Select the **Digital Verifier** option to begin installation.
- 3. When the **Welcome** screen appears, click **Next**.
- 4. When the **Setup Complete** window appears click **Finish**. Installation is complete.

Using the Digital Verifier

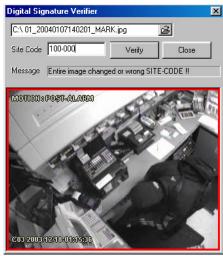
- 1. Open the Digital Verification program by selecting Start > Programs > Surveillix > Digital Verifier > Digital Signature Verifier.
- 2. Click the Browse button to load the JPG image.
- Enter the Site Code of the DVR that the image was originally extracted from. (The Site Code is specified in the Information Setup menu)
- Click Verify to continue or Close to close the window without verifying.



If the image has not been tampered with, a blue square will appear around the image with the message "Original image file."



If the image has been tampered with, a red square will appear around the image with the message "Entire image changed or wrong SITE CODE."



BACKUP VIEWER OVERVIEW

The Backup Viewer allows you to play back the exported video in its proprietary format. Video saved in this format is extremely difficult to tamper with and therefore is the ideal solution when law enforcement and the legal department are involved.

This video cannot be read by any other viewer.

The Backup Viewer operates essentially like the Search portion of the DVR software.

For detailed explanations of these functions, refer to the chapter on Search Options in this manual.

Installing Backup Viewer

- Insert the Software Installation DVD into the DVD-ROM. (Do not install on the DVR.)
- Select the Backup Viewer option to begin installation. When the Welcome screen opens, click Next.
- Read the License Agreement and select the appropriate radio button to accept the terms of the license agreement. Click Next.
- Select Yes to install the POS component or select No for a basic install. Click Next.

Note The POS component is only necessary when connecting to a server running the POS Upgrade.

- When the Choose Destination Location window opens click Next. This will install Backup Viewer in the default destination folder.
- Select the shortcuts to install, or clear all boxes for no shortcuts. Click Next.
- When the InstallShield Wizard Complete window appears click Finish. Setup is now complete.

Loading Video from DVD or Hard Drive

- Open the Backup Viewer program: Start > Programs > Surveillix > Backup Viewer > Backup Viewer.
- 2. Click Open. The Total Backup Search window will open.
- For DVD-ROM data, select the appropriate DVD-ROM drive letter from the Backup Media box.
- b. For hard drive data, select either an attached hard drive from the Backup Media box or select the Open Folder icon to browse to a specific directory.

Note Once selected, available video data will be displayed in the Choose Start Hour box.

- Click on the desired time to select it.
- 4. Click OK. The video will now load into the Backup Viewer.



SCS OVERVIEW

SCS software is Network DVR Management Software; a powerful utility that allows 100 or more DVRs to be controlled using one computer. This software allows you to view live video, search saved video, edit and configure setup on each DVR, and import maps of buildings and other locations.

The SCS software was specifically designed as an enterprise software solution.

Highlights:

View Live Video from most computers

Username and Password protected

Easy to use graphical interface

Basics:

In order to log in to the DVR server, a user account must be made for each user. This ensures that only authorized personnel are allowed to log in. In addition, each user can be assigned different privileges that allow them or deny them access to different functions.

Configuring the Server for Remote Connection

- 1. Enter Setup on the DVR.
- 2. Click the Network Setup Button.
- 3. Uncheck the Disable Remote Control option. You should now be allowed to adjust port settings if necessary.

NOTE: If you are using a Firewall, it may be necessary to adjust the port settings on both the DVR and the Firewall. Contact the Network Administrator for more information.

- 4. Click OK.
- 5. Make sure a user account is created. Without a user account, the Administrator account must be used.
- 6. The DVR server is now ready to receive incoming connections.

Connecting to a DVR

Refer to the Setup section of the SCS Manual for information on using the SCS Software.