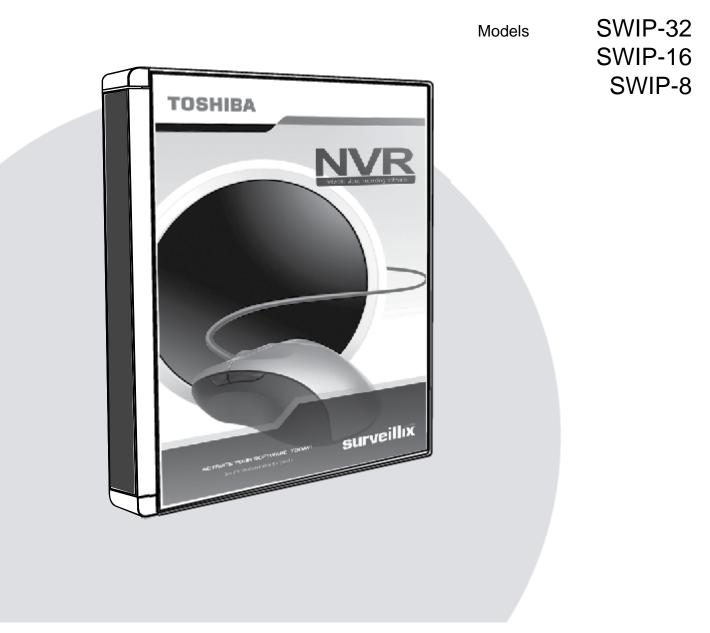
surveillix

NVR Network Video Recording Software

User Manual



Please carefully read these instructions before using this product Save this manual for future use

TOSHIBA

Surveillix[™] NVR Server Software Manual (Version 4)

Manual Edition 27177AJ – OCTOBER 2009

Printed in USA

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The following words and symbols mark special messages throughout this guide:

WARNING: Text set off in this manner indicates that failure to follow directions could result in bodily harm or loss of life.



CAUTION: Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.

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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

Type & Number or Processors: X Intel® 08200 2.33GHz+ Core 2 Quad X Intel® 09550 2.83GHz+ Core 2 Quad X Operating System: X Microsoft Windows 7 X X Microsoft Windows 70 X X Microsoft Windows 70 X X Microsoft Windows XP Professional, SP2 X X File System X X Memory: X X 2GB, DDR2 SDRAM Memory. 400MrJ. ECC X X Graphics Cards: X X Graphics Cards: X X Totyle A MD DVD Read-Write Devices: X X 128M PCL/ PCLe / AGP Graphics adapter X X Keyboard and Mouse: X X Intert Chaskis Speaker and External Speakers X X Soundcard: X X X Internal Chaskis Speaker and External Speakers X X Divers N FUCL / Schager Adaptor X X Inters Unel Speakers: X X	Total Cameras / Video Input	8/16	32
Intel® 08200 2.33GHz+ Core 2 Quad X Intel® 09550 2.83GHz+ Core 2 Quad X Operating System: X Microsoft Windows 7 X X Microsoft Windows XP Professional, SP2 X X File System: X X TSF File System Note X X GB, DDR2 SDRAM Memory, 400Mz, ECC X X CO-ROM AND DVD Read-Write Devices: X X 126K Or DC LARW / DVD+RW/R X X Souge CDR2 SDRAM Memory, 400Mz, ECC X X Co-ROM AND DVD Read-Write Devices: X X 128MB PCI / PCle / AGP Graphics adapter X X Souge Construct X X X Souge Construct X X X Souge Construct X X X Souge Construct	·		
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	Display Adapter Settings:		
Minimum Resolution of 1024X768 X X	32-Bit Color Setting	Х	Х
	Minimum Resolution of 1024X768	Х	Х

NVR SOFTWARE SPECIFICATIONS

Total Cameras / Video Input	8	16	32
Recording Rate:	30 PPS per camera (depending on hardware configuration)		
PTZ Control		YES	
Sample Image Size Averages:	Variable Depending on	Network Camera and Netw	ork Camera Settings
Password Control:		User Defined Access	
Image Compression:	Dependant	on Camera, MJPEG, MPEG	64, H.264
Motion Detection:	Up to 15 Re	egions Per Ch. Adjustable S	ensitivity
Emergency Agent:	Transmit	ted Via TCP/IP – Pop-Up W	lindow
Digital Signature	Suppo	rts Digital Signature Verifica	tion
Recording Mode	Continuous, Motic	n Detection, Sensor, Sched	uled Recording
PAN/TILT/ZOOM		Built in Software Interface	
Remote Operation	Full Remote Cor	ntrol Through PSTN, ISDN, A	ADSL, or LAN
Audio	8 CH Mono	16 CH M	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:

- 1. 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.

Surveillix NVR Set	up	×
Setup Network	Video Recorder Type TOSHIBA	
Click the type of	setup you prefer, then click Next.	
C Workstation	Program will be installed with Workstation options. Recommended for Windows XP with 128MB Video Graphics Adapter	
• <u>Servet</u>	Program will be installed with Server options. Recommended for Windows 2003 or Workstations with less then 128MB Video Graphics Adapter	
InstallShield ———	<back next=""> Cancel</back>	

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.

Sust	m ID. OA00F000	AD0000		Cop	nv (
Licen	se Key			Regi	ster	
	License Key	Total	Used	Free		

- 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/

Product Serial Nur	nber		
System ID			
Submit			

- 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	HINGHORINA.
System ID	4e88753ee7588
DVR Serial Number:	0900900394

Please verify the information and press NEXT to proceed.

< Back Next >

- 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

KINGKIGORI I - LANKERCIPER

Product Product SN DVR SN 01 Channel IP Camera Unlock

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

Print this Page

Unlocking the Upgrade

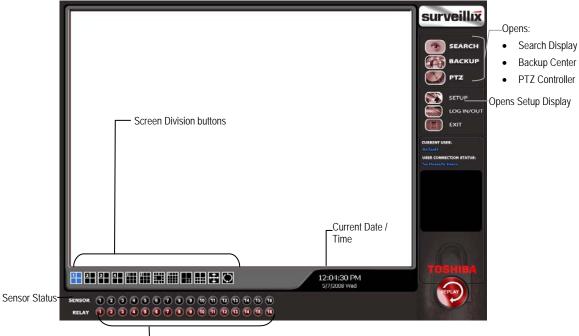
- 1. Return to Setup > Network Cameras > License.
- 2. Enter the Unlock Code generated by the Surveillix Registration Site into the License Key box.
- 3. Click Register and confirm that the new License Key is listed in the Channel Connection License box.
- 4. Click OK.

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.



-Relay Outputs

Live Camera Options

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

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

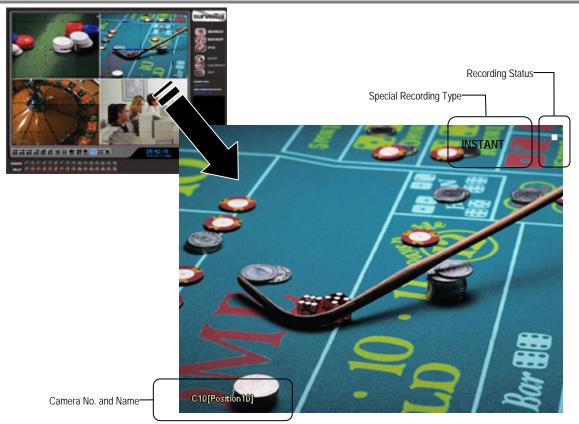


Live Digital Zoom

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:

٠	Recording	Displayed when the camera is currently being recorded to the DVR.
0 0	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** 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.

С

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.



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.



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

ŧ	

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.



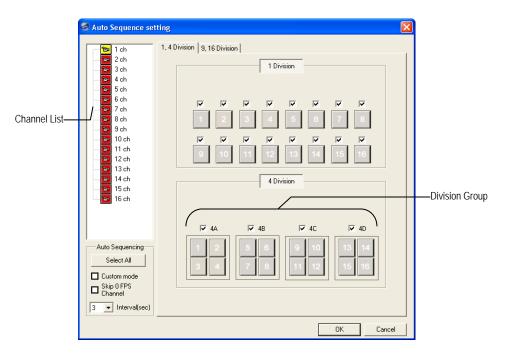
Auto Sequence – Sequences through the Screen Divisions sets. For example, selecting the 1A and then the Loop button will sequence through 1A, 2A, 3A, 4A and then repeat. This option is not available for the 7, 10 and 13 screen divisions.

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

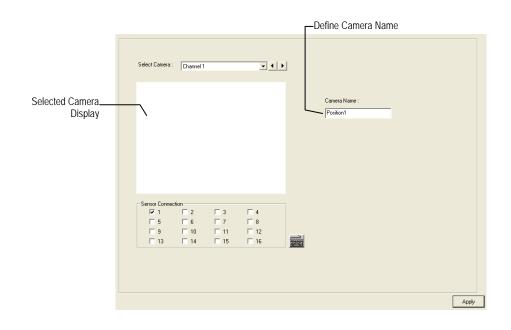
SETUP OVERVIEW

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

	Server Name	IP	Port	Device Ture
	10.50.0.250	10.50.0.250	Port 80	Device Type 250CX 13N
	10.00.0.200	10.30.0.230	00	23004 134
	,			
d Devices				
u Devices				
Į	Device Properties			
ļ				Find Cameros
	Device Type			
	Device Type Device Name	User ID	×	Add
	Device Type Device Name IP / URL 0.0.0.0	User ID Password		
	Device Type Device Name	1	<u> </u>	Add
	Device Type Device Name IP / URL 0.0.0.0	1	<u> </u>	Add Update
	Device Type Device Name IP / URL 0.0.0.0	1	×	Add

Supported IP Camera Manufacturers

ACTi	Panasonic
Arecont Vision	Pixord
Axis	Samsung
Brans	Securgen
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

- 1. From the **Display** screen, click **Setup**.
- 2. 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.
- 6. Click Get Device.
- 7. Type the User ID and Password of the device.
- 8. Click Update.

Assigning a Network Device to a Channel

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

nnels	Device	Device Channel	Position Name
Position1	<none></none>	<none></none>	Position1
Position2	<none></none>	<none></none>	Select Device
osition3	<none></none>	<none></none>	
'osition4	<none></none>	<none></none>	<none></none>
osition5	<none></none>	<none></none>	
osition6	<none></none>	<none></none>	
osition7	<none></none>	<none></none>	
osition8	<none></none>	<none></none>	PTZ Camera
'osition9	<none></none>	<none></none>	
osition10	<none></none>	<none></none>	
osition11	<none></none>	<none></none>	Intensive
osition12	<none></none>	<none></none>	Intensive Motion
'osition13	<none></none>	<none></none>	
osition14	<none></none>	<none></none>	Intensive Sensor
osition15	<none></none>	<none></none>	🗌 🔲 Intensive Instant
osition16	<none></none>	<none></none>	
			Apply All
			Delete All
			Drag & Drop Cameras

- 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.
- 10. 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.

annel List—			Channel Properties
nannels	Device	Device Channel	Select Device
Position1	<none></none>	<none></none>	<none></none>
Position2	<none></none>	<none></none>	
Position3	<none></none>	<none></none>	
Position4	<none></none>	<none></none>	Record Network Audio Enable Network Audio in Live View
			Apply All
			Delete All
			Drag & Drop Cameras

- 4. Click an available audio channel on the Channel List.
- 5. Select a network device added previously.
- 6. 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

	Device	Device Channel	Status	Model	IP	Port	Resolution
Position1	<none></none>	<none></none>	Not Connected				
Position2	<none></none>	<none></none>	Not Connected				
Position3	<none></none>	<none></none>	Not Connected				
Position4	<none></none>	<none></none>	Not Connected				
Position5	<none></none>	<none></none>	Not Connected				
Position6	<none></none>	<none></none>	Not Connected				
Position7	<none></none>	<none></none>	Not Connected				
Position8	<none></none>	<none></none>	Not Connected				
Position9	<none></none>	<none></none>	Not Connected				
Position10	<none></none>	<none></none>	Not Connected				
Position11	<none></none>	<none></none>	Not Connected				
Position12	<none></none>	<none></none>	Not Connected				
Position13	<none></none>	<none></none>	Not Connected				
Position14	<none></none>	<none></none>	Not Connected				
Position15	<none></none>	<none></none>	Not Connected				
Position16	<none></none>	<none></none>	Not Connected				
<							>
Capture FPS	IP Address	Codec					
Record FPS	Port Number	🗹 Quality					
Schedule Manufacturer	Resolution Record FPS	PTZ	App	olv	Select Column	Setup Netw	ork Device
	Record FPS				Select Column		
Model							

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.
- 4. Highlight the desired camera.
- 5. Click Setup Network Device.

MOTION SETUP

	Select Camera : Char	nel 1 💌 🗹	Move		tion sensitivity and to tect detail motion area araced Motion Area Setup Low
Display full screen video pop up on motion event	\backslash		- Noise	Filter	Low
Beep on motion event—	 Full Screen Pop up o Beep on detect Full Screen Pop up o 	Alarm Output	Pre Alan	m 0 (Seconds)	
Display full screen video pop up on sensor event	/			rm (MOTION) 10 (Seconds)	
		(HH:MM:SS) 00:0			
		nedule recording at	a regular spec	ified interval	

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

Reduces Analog Signal Noise from Motion Detection-

Create a Motion Area

- 1. Click Motion in Setup.
- 2. Select a camera from the Select Camera list.
- 3. Select the Detect Detail Motion Area check box.
- 4. 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.
- **10.** 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.

Alarm Outpu		
Control NO	1	•
Duration	10	(Seconds)

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.

	T Motion Event T Sensor Event	└ Video loss alarm beep
✓ Display Motion Detection Area Box. ✓ Display Sensor Status BAR. ✓ Display Sensor Status BAR.	Function F Beep on login fail	T Dual Monitor
C Display Control Status BAR. Motion detect on Continuous recording Arial DSD font Hide network connectivity Use full screen Display Size : 1024 x 758 V	Hybrid Sensor setup	Volume Sequence Setting

ed login
.Cycle
nitors.

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.

Voice Warning	Open Sound File	1		Test	
	Voice Warning	J	6	Motion Event	Sensor Event

- 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.
- 4. 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.
- 9. 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.

🚺 Volume Control		
Options Help		
Volume Control	Wave	Input Monitor
Speaker Volume	Balance:	Balance:
Volume:	Volume:	Volume:
🔲 Mute all	Mute	Mute
SigmaTel Audio		

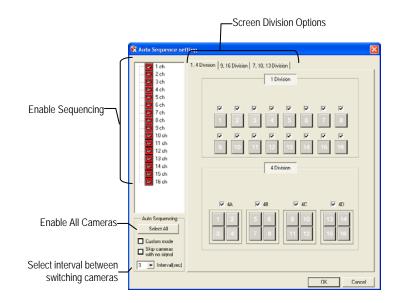
Hybrid Sensor Setup

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

letwork Device S Network Device Address(Port)	Sensor Setup List (Select a device.) Model[Typ	oe)	Sensor	Count	Relay Coun
10.0.0.4(7000)	4 Channel(Video	oServer)	4		4
Sensor / Relay I	ist				
Sensor	DVR Sensor No.	Re	lay	DV	R Relay No.

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

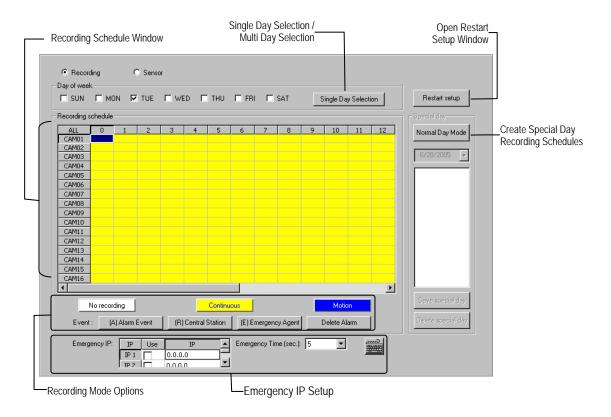
Create Custom Auto Sequence

- 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

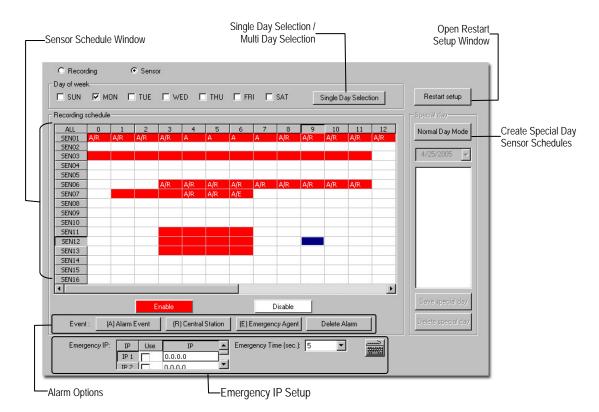
Recording Schedule

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

- 1. 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

- 1. 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.
- 2. 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.
- 3. 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.

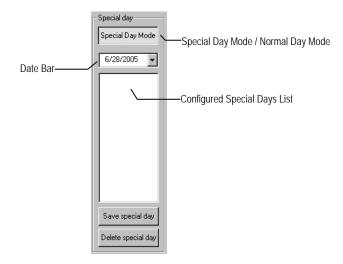
Emergency Agent Schedule

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

- 1. 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.
- 3. 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.

System restart setup	X
System Restart Time	
Monday Enable Time: 00 V 00 V Restart C Off	Friday Enable Time: 00 v 00 v • Restart Off
Tuesday ☐ Enable Time: 00 ▼ 00 ▼ ⓒ Restart C Off	Saturday Enable Time: 00 - 00 - © Restart © Off
Wednesday Enable Time : 00 - 00 - Restart C Off	Sunday Enable Time: 00 V 00 V Restart C Off
Thursday Enable Time: 00 V 00 V Restart C Off	
	OK Cancel

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.

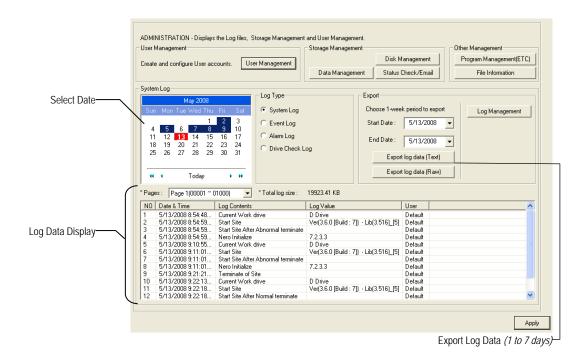
Note If Off is selected, the DVR will shut down at the specified time but not restart.

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.

	Γ	-Settings for Video Sent to Remo	ote Client	
	Disable Remote Control Transport Setup Quality : Normal Resolution : Original	Transport Rate : 100 Advanced	Web View IP address	
	Network Setup TimeOut Value : Emergency Port : (1024 - 5000) Center Port : 2000	PPP Setup(Emergency) Use PPP Password : Confirm :	HTTP Port: 80 iDVR Port: 3001 Live Port: 3100	
	(1024 - 5000) Image Port : 2002 (1024 - 5000) Search Port : 2003 (1024 - 5000)	Phone Number : Modem Select : N/A		Use with Emergency Agent
Use with Remote Connections Enable RS-2	Keyboard Control	Setup Keyboard Control	Two-way Audio Communication Enable Audio Communication Audio Port: 3002	
Keyboards (P	TZ)			R and Remote Client
Time Out Value	1 5	b connect to the DVR, if the conhection will be terminat	onnection does not succeed dur ted.	ing the timeout
Emergency Port	Used to connect to	the Alarm Monitor software.		
Center Port	Used to connect to Software to connect		e. This port must be specified in	the Remote
Note Center Po	ort 1025 is not available for remo	ote connections. It is used by	the ATI VGA management suite	!
Image Port	Used to transfer the	e video to the Surveillix remot	e software.	
Search Port	Used to transfer se	earch information to the Surve	illix remote software.	
Note If connect	ting to the DVR through a firewa	III, the above ports must be op	pen to incoming and outgoing tra	affic.
Resolution	reduced consideral		sent faster, however, the image quality video will be sent [720 x - the intensive.	
Transport Rate	Throttles the bandw	width on the DVR. This option	is based on percentages of ima	ges 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.

	3 🛛 🖸 🗶 🖆 🖬	ê 🔯 😼					
/olume	Layout	Туре	File System	Status	Capacity	Free Space	% F
BACKUP (C:)	Partition	Basic	FAT32	Healthy (S	19.72 GB	17.03 GB	86 9
DVR (D:)	Partition	Basic	NTFS	Healthy	214.02 GB	209.91 GB	98 9
Confine	BACKUP (C:) 19.73 GB FAT32 Healthy (System)			DVR (D:) 214.02 GB NTFS Healthy)		2

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.

	User Management	
	Select user	Add User Update User Delete User Exit
Enable Auto Log Off	User Auto log off	

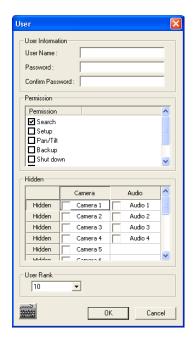
Log Off User after x Minute(s) of Inactivity*

*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.

- 1. 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.
- 6. Set the user's rank using the User Rank list and click OK to save changes.

Changing the Administrator Password

- 1. 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:
volank>

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.
- 2. 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.

🕏 Log file management 🛛 🗙
Log file overwrite option
Log file size 512 KB
C Do not overwrite
Delete Log file older than 7 🚊 day(s).
Select log
System log Event log Alarm log Drive Check Log
OK Cancel

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.
- 6. Enter the SMTP information for the "From" email account. Contact the email administrator for this information if necessary.
- 7. If using a secondary email account select the **Use Secondary SMTP** check box and complete the SMTP information.
- 8. Click Test to check settings.
- 9. 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.

Email Alarm	J			
SMART In		SM4	RT Alert	Alarm Event
General	Users	Storage	Check	Recording Data Check
🔲 Enable E-m	ail Alarm			
Send User				
From Name				
From Address	-			
Primary SMTF	^o Setting		Use S	econdary SMTP
Host Address			Host Addre	225
User name			User name	
Password			Password	
Port	25		Port	25
🗖 Use	Login Te	st		se Login Test
				Apply
				Close

Email Alarm		
International Control SMART Informa General Name	tion SMART A Jsers Storage Chec E-Mail address	
<		Add Edit Delete
		Apply
		Close

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.

🗙 Email Alarm		
SMART Information General Users	SMART Alert Storage Check	Alarm Event Recording Data Check
Use Storage Check		
Every 0	Minute(s)	
🗖 Веер		
Popup message		
- Setting E-Mail		
		Check Now Apply
		,
		Close

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.

mail Alarm SMART Information General Users	SMART Alert Storage Check	Alarm Event Recording Data Check
Recording data check Every 12 hour Action Method Popup message Alert Beep Alert E-mail Alert Comment		
		Apply Close

SMART Information

The SMART Information tab displays Hard Drive information.

SMART Information	rs	Storage Ch SMAR		He	ecording Da	ata Uheo Event
DD Information		JIMAIT	Mon		Addin	LVOIR
				_		
Index Dev Mode		Capacity	Bad Se			S.M.A.R
1 0 WDC	WD25	233 GB	0		58 C	Good
MART Information						
MANTINIOIIIauon						
Attribute Name	Value	Wors		resh	Raw Val.	Wh.
Read Error Rate	200	200	5	1	0	
Read Error Rate Spin Up Time	200 253	200 235	5	1 1	0 2175	:
Read Error Rate Spin Up Time Start/Stop Count	200 253 100	200 235 100	5	i1 :1 D	0 2175 114	
Read Error Rate Spin Up Time Start/Stop Count Reallocated Sectors C.	200 253 100 200	200 235 100 200	1- 	i1 11 11 11 11 11 11	0 2175 114 0	:
Read Error Rate Spin Up Time Start/Stop Count Reallocated Sectors C. Seek Error Rate	200 253 100	200 235 100	5 2 1 1.	i1 11 11 11 11 11 11	0 2175 114	:
Read Error Rate Spin Up Time Start/Stop Count Reallocated Sectors C Seek Error Rate Power On Hours(POH)	200 253 100 200 200	200 235 100 200 200	5 2 1 1.	i1 1 0 40 i1 0	0 2175 114 0 0	:
Read Error Rate Spin Up Time Start/Stop Count Reallocated Sectors C. Seek Error Rate Power On Hours(POH) Spin Retry Count Recalibration Retries	200 253 100 200 200 98 100 100	200 235 100 200 200 98 100 100	5 2 1 1 5	i1 1 0 40 i1 0	0 2175 114 0 0 1503 0 0	-
Read Error Rate Spin Up Time Start/Stop Count Reallocated Sectors C. Seek Error Rate Power On Hours(POH) Spin Retry Count Recalibration Retries Device Power Circle C	200 253 100 200 200 98 100	200 235 100 200 200 98 100 100	1. 5 1. 5 5	i1 1 0 40 i1 0	0 2175 114 0 0 1503 0	
Read Error Rate Spin Up Time Start/Stop Count Reallocated Sectors C. Seek Error Rate Power On Hours(POH) Spin Retry Count Recalibration Retries	200 253 100 200 200 98 100 100	200 235 100 200 200 98 100 100	1. 5 1. 5 5	11 11 12 140 11 11 11 11	0 2175 114 0 0 1503 0 0	-
Read Error Rate Spin Up Time Start/Stop Count Reallocated Sectors C. Seek Error Rate Power On Hours(POH) Spin Retry Count Recalibration Retries Device Power Circle C	200 253 100 200 200 98 100 100	200 235 100 200 200 98 100 100	1. 5 1. 5 5	11 11 12 140 11 11 11 11	0 2175 114 0 0 1503 0 0	

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

- 1. 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.

Email Alarm				
General SMART Inform		Storage Check SMART Alert	Recording Da	ata Check Event
Enable SMA	······			
Check SMART st	1	· ·		
☐ If SMART ala			e. take action	
	mperature : 0		-	
Action Method-				
E-Mail Al		Popup Mess	sage Alert	
				-
				Apply

General Users SMART Information	Storage Check Recording Data Check SMART Alert Alarm Event
Every 10	minute(s).
Event Type	
Sensor	
Setting Event E-Mail With Detail Info Comment :	Max Count(Detail Data): 20-21
,	
	Close

HDD Management

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

HDD Mana	gement					X
HDD Property						
Use	Drive	Туре	Total Size	Free Space	Etc	% Free
Record Record None None	DVR[D:] DVR[E:] DVR[F:] DVR[G:]	Local Disk Local Disk Local Disk Local Disk Local Disk	110 GB 110 GB 110 GB 110 GB 110 GB	110 GB 110 GB 110 GB 110 GB	((()%)%)%)%
	e tri[at]	100 an e 1013				
Map Ne	etwork Drive	Disconnect Network Drive				Apply
					OK	Cancel

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.

	Total HDD /Available HDD Space	Current Server Software Version
Board Serial # : System Serial # : Decoder : 1	Drive Information C: Drive C: Drive Total Space : 2029 MB Free Space : 16739 MB D: Drive Total Space : 219097 MB Free Space : 219097 MB Free Space : 219097 MB CD Drive CD Drive	DVR Version 4.0.0
Notes :	Telephone Number Contact Number : Tech. Support :	User-Defined Contact Number
Ente	er comments	Αρρίγ



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

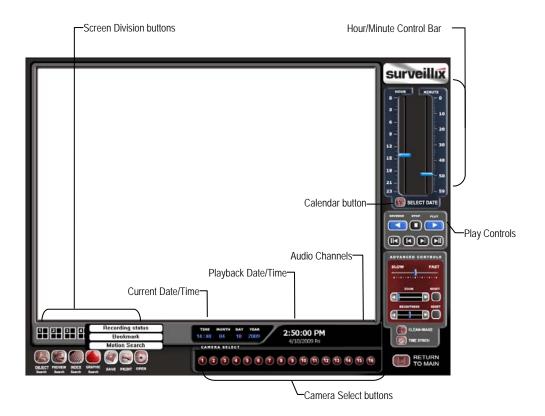
This chapter includes the following information:

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

SEARCH OVERVIEW

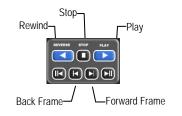
The DVR has several options that allow the user to easily search through, and find, a particular section of video. From Motion/Sensor indexing to calendar views highlighting days with recorded video; the DVR is equipped to help the user quickly find a specific video or event.

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



Back Frame	Moves video back one frame
Rewind	Rewinds video
Stop	Stops video playback
Play	Plays video
Forward Frame	Moves video forward one frame

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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.
- 2. 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.
- 3. 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.



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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 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

a. 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.
- c. Select Quality 50>100. When size is not an issue, set quality to 100.
- 3. Click **Export** to save file. The **Cancel** button exits the window without exporting file.

🕏 Save / Clip Backup		×
Save Clip Backup		
Export type Image File C AVI File JPG		
AVI detail setup Avi duration from current frame(Sec) : Compression Codec : Microsoft MPEG-4 Video Codec V2	5 🔻	
Quality setup Quality (50 - 100) :	100 💌	
Unplug or Eject Hardware	Export C	ancel

Bookmarks

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

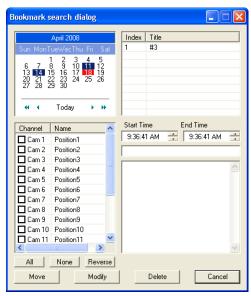
- 1. Perform a search for the desired video.
- 2. Stop playback at the beginning of the desired clip.
- 3. Right-click the video and select Start Bookmark.
- 4. Click the play button to continue playback.
- 5. Stop playback at the end of the desired clip.
- 6. Right-click the video at the desired end 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.

Create bookmark Select bookmark channel Title Channel Name ~ 🗹 Cam 1 Position1 More Information Position2 Cam 2 🗖 Cam 3 Position3 🗖 Cam 4 Position4 🗖 Cam 5 Position5 🗌 Cam 6 Position6 🗖 Cam 7 Position7 🗖 Cam 8 Position8 🗖 Cam 9 Position9 Cam 10 Position10 < > All None Converse Bookmark start time Bookmark end time 4/18/2008 9:34:20 AM 🕂 4/18/2008 9:35:33 AM -Create Cancel

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.

- 1. From the Search screen, click Graphic Search and then click Bookmark.
- 2. 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.
- 6. When the modification is complete, click **Cancel** to close the window.



🕏 Save / Clip Backup

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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.
- 2. Select the drive from the file tree to save data to. (Hard disk drive, removable drive (USB), CD/DVD drive)
- 3. 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.
- 7. 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.

Save Clip Backup Drive 😡 My computer E: [0 MB Free] channel selection backup start 4/10/2009 2:38:00 PM 🕂 Channel Name ~ Cam 1 Position1 backup end 4/10/2009 2:38:05 PM Cam 2 Position2 Cam 3 Position3 Include Viewer Cam 4 Position4 Add Memo Cam 5 Position5 Cam 6 Position6 Use bookmark data Cam 7 Position7 Position8 Cam 9 Position9 Cam 10 Position10 Unplug or Eject Hardware Backup Cancel

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.
- 4. 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.

May 2008	Index Title			
Sun MonTueWecThu Fri Sat	I TEST			
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31				
📢 📢 Today 🕨 🕨				
Start time 6:04:57 PM	End time 6:06:17 PM			
Multi backup EV Copy Backup Drive				
Backup Drive	Free)			

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.
- 5. Select an event type to search (Sensor, Motion, Instant Record) or select the All Event option.
- 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.
- 7. 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 Option	
Camera Name Camera 1 Back Room Camera 2 Eath Halway Camera 3 Loading Dock Camera 3 Loading Dock Camera 4 South Entrance Camera 5 South Entrance Camera 6 Centrance Camera 6 Position 10 Camera 1 Position 12 Camera 1 Position 13 Camera 1 Position 15 Camera 1 Position 15	Senior Senior 1 Senior 2 Senior 1 Senior 3 Senior 3 Senior 3 Senior 3 Senior 4 Senior 4 Senior 6 Senior 6 Senior 6 Senior 7 Senior 6 Senior 7 Senior 9 Senior 10 Senior 0 Senior 10 Senior 1 Senior 11 Senior 1 Senior 11 Senior 13 Senior 11 Senior 13 Senior 11 Senior 13 Senior 13 Senior 13 Senior 13 Senior 13 Senior 14 Senior 15 Senior 14 Senior 15 Senior 15
Start Time 925:18 AM	Select soft option C Sensor C Motion detection C Instant Record C All event
	OK Cancel

Index Search Results Display



PREVIEW SEARCH

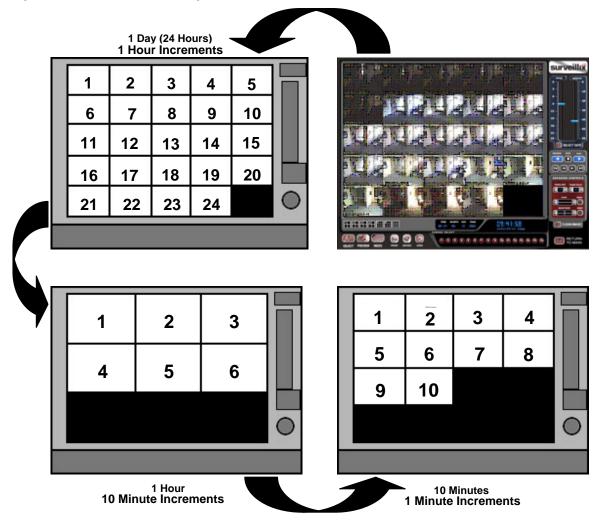
Preview Search can be used in a number of circumstances to quickly find an exact moment where an event, such as a theft, occurred. The Preview Search gives a 24 Hour visual overview of a single camera by separating a 24 hour period (1 day) into 24 images, one image for each hour of the day. The search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

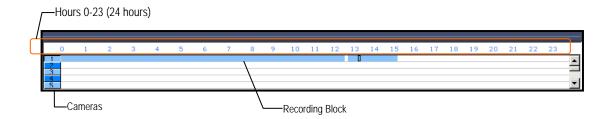


Performing a Preview Search

- 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.

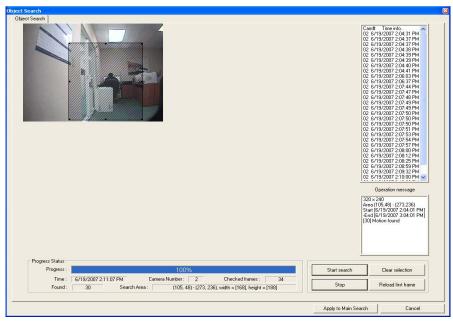


Performing a Graphic Search

- 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

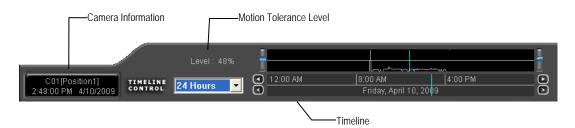
- 1. Perform a Basic Search. See the instructions on Performing a Basic Search.
- 2. Select a single camera, either by turning off all cameras but one or by double-clicking a displayed image.
- 3. Click Object Search on the Search screen.
- 4. Click and drag the mouse on the video display to define a motion region area. Resize by pulling on the small square boxes located on the outer perimeter of the area.
- 5. 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.
- 9. Select a motion event from the search results list displayed on the right
- **10.** Click **Apply to Main Search** to display the selected image in the main **Search** screen and to use play controls
- 11. To start a new object search using the original image, click Reload First Frame.
- 12. To exit Object Search without selecting an image, click Cancel.

Object search filter information				
Start	End Date : 6/19/2007 💌			
Time : 1:49:38 PM 👘	Time : 2:49:38 PM			
Filter option				
Sensitivity:	20 OK			
Insensitive	> Cancel			
✓ Key frame search (Faster)				
Show detected image (Slower)				

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.

- TipTo 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.
- 3. The search in live Controls will display at the bottom of the image.
- 4. Use the controls to pause, rewind, move frame-by-frame or resume playing as desired.



NOTES:

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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.
- 3. 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.
- 4. Click Apply and then click Exit.
- 5. From the Display screen, click PTZ (See the chapter on DVR Basics). The PTZ Controller will open.
- 6. Select the PTZ camera to control by clicking on its video on the display screen. The camera number will appear inside the PTZ controls.
- 7. Using the PTZ controls, move the PTZ around.

ADVANCED PTZ SETUP

PTZ signal type——	Channel: [Channel 01] : Position1 Channel: [Channel 01] : Position1 Channel: [Channel: [Channel: 01] : Position1 Channel: [Channel: 01] : Position1
	Open PTZ Controller 0 Image: Stat Pos End Pos Tour Schedule Image: Stat Pos End Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos Image: Stat Pos
	Camera Detail Menu Camera Menu Select Close
Adjust Speed Settings——	Speed Address Setting Pan : PY <> Tilt : PY <> PT Driver Address : 1
Connection Settings	Zoom: Image: Address: Image: Ad

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.
- 4. In the Preset & Tour Detail section, choose a Preset # (1-10) using the list or the Right and Left Arrow buttons and click Select.

Preset :	1	•	• •	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.

Address Setting	
RX Address 1 :	01 🔽
RX Address 2 :	00 💌
PT Driver Address :	0 🔹
Previous ID :	
New ID :	Set ID

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

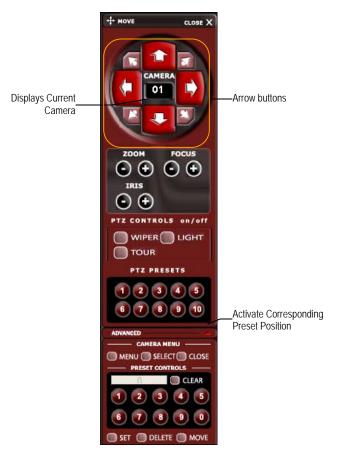
The Surveillix DVRs provide control for a PAN/TILT/ZOOM camera in two different ways.

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

- 1. Use the Arrow buttons to control the direction of the PTZ camera.
- 2. 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.
- 4. Click Apply.
- 5. Click Exit to return to the Display screen.
- 6. Click PTZ.
- 7. Control the PTZ by dragging the mouse on the screen in the desired direction.



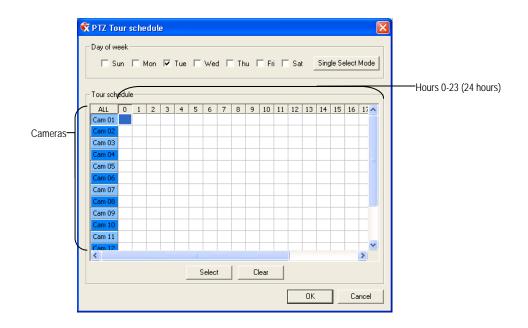
Note A green line will appear to show the direction the PTZ will move. The shorter the line the less the PTZ will move. The longer the line the more the PTZ will travel in the specified direction.

UNDERSTANDING TOURS

Preset & Tour					
Travel Speed :	30 🗸 🖌 🕨				
Dwell Time(sec):	63 🗸 🖌 🕨				
Setting : Start Pos	End Pos				
Run	Stop				

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.
- 6. 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

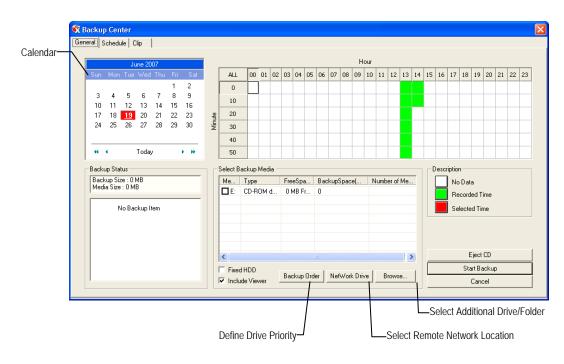
The DVR uses Windows[®] XP[®] Embedded running Nero[®] Express 8 to write data to the DVD-RW Drive. This solution allows the DVR software to read and write data to the DVD-RW Drive without formatting the disk first.



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.
- 4. 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

🕏 Backup Center		2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 -
General Schedule Clip		
Channel Selection Channel Name Cam 1 Position1 Cam 2 Position2 Cam 3 Position3 Cam 4 Position4 Cam 5 Position5 Cam 6 Position6 Cam 7 Position7 Cam 8 Position8 Cam 9 Position8 Cam 10 Position Cam 11 Position Cam 12 Position Cam 13 Position Cam 14 Position Cam 15 Position Cam 16 Position Cam 16 Position	Clip Information title : worker administrator memo	Backup Drive MY Computer E:\[0 MB Free] Time Setup Start Time : 6/19/2007 2:16:51 PM = End Time : 6/19/2007 2:16:56 PM = Include Viewer
Odd Even All Clear Reverse		Backup Cancel

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

- 1. Click Backup on the Display screen.
- 2. Click the Schedule tab at the top of the Backup Center window.
- 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.
- 4. 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.

- 1. 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'.
- 4. 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.
- 6. 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.
- 8. Click OK to close the Local Area Connection Properties window.
- 9. 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.
- 1. 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.

User Login		×
User Name :	domainadmin	A
Password :		170
Log in to :	LDAP User 💌	
Full Domain name:	Idap domain net	
OK Car	roel	Terret

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).

Active Directory Users and Comput		
→ E III IIII III III III III III III III II	Image: Second state Image: Second state	Туре
Pomain.net Pomain.net Pomain.net Pomain.computers Zomain Computers Zomain Controllers Zomain Users	Notifie BDVR_BACKUP_100-000 DVR_HIDE_AUDIO_001_100-000 DVR_HIDE_AUDIO_002_100-000 DVR_HIDE_AUDIO_003_100-000 DVR_HIDE_AUDIO_005_100-000 DVR_HIDE_AUDIO_005_100-000 DVR_HIDE_AUDIO_005_100-000 DVR_HIDE_AUDIO_0005_100-000 DVR_HIDE_AUDIO_0005_100-000 DVR_HIDE_AUDIO_0008_100-000 DVR_HIDE_CAMERA_001_100-000 DVR_HIDE_CAMERA_002_100-000 DVR_HIDE_CAMERA_003_100-000	Distribution Group - Universal Distribution Group - Universal

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.

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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

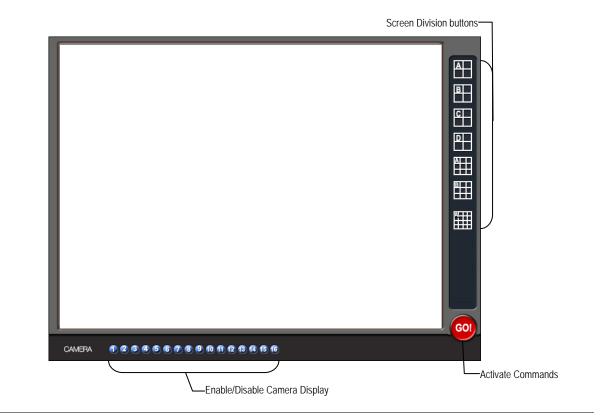
Username and Password protected

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.
- 5. Click Apply.
- 6. Make sure a User account is created. Without a user account, the Administrator account must be used.
- 7. 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.
- 3. 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.

- 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.
- 7. 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:

- 1. 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.

Emergency IP:

IΡ

IP 1

Use

IΡ

0.0.0.0

^

- 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.
- DVR identification
 Image: Constraint of the second secon

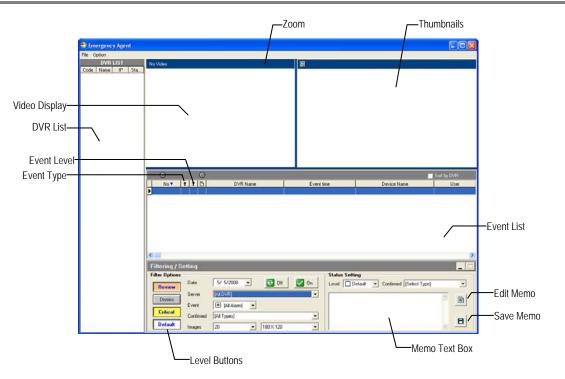
- 5. Click the OK button
- Restart the Client PC

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.

Setup	
Vertion V3.0.0.5	< Alam Confirmation List >
Minimized on Startup EA Popup On Alam Network Port 2001 Save Directory CVPopus n FlarkScrutelityE megancyAger/NE/	
(Notice) Stow popup meteringer Sound Option C Ne Sound C Rep Jalam (Play selected Wave	Add Update Delete
<u>8</u>	OK Cancel

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.

<	: Alarm Confirmation List >	1
	Raccoons Delivery Truck Suspected Theft	

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

Status	Setting			
Level	🔲 Default	•	Confirmed	[Select Type]
				[Select Type]
				Raccoons
				Delivery Truck Suspected Theft
				Suspected Ther(

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

SEARCH ALARM WINDOW

	🛎 Search		
Video Display—	_	Export Option	
Play Controls		Find Next Frame Find Next Alarm Alarm Alarm Setting	
Alarm Event Information—	Continue Playing Continue Playing Same Camera Up Down Frame : 1 of 26 1 Server : 10.00.77(100-000) Name : Position1 15:54:21 Time : 15:54:21	Apply Close	–Go to Next Event –Go to Previous Event
Export Quality	It may be necessary to reduce the over AVI file sizes can be reduced by reduc causes the AVI video to appear more highly recommended.	cing the image quality. However, i	reducing the image quality
Digital Signature	Adds a digital signature to the exporte verify integrity of exported images and		tal Signature Verifier to

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.
- 3. 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.
- 5. Click Apply after making any changes.

Export Video

- 1. 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

	Local Setup	×
	Site List Configuration POS Setup	
	Find DVR	
		1
DVR Site List		
DVIC Site Eist		
	Import/Export saved configurations	
	imporvexport saved configurations	
	New Modify Delete Delete All Import Export	
\square	Information SiteTune SiteTune Save ID/Password	
Selected Site Information	SiteType User Name Save ID/Password	
	IP Address Password	
		-
	IP Finder Disconnect Disconnect	
	OK Cancel	

- 1. 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.

🔲 Disable Remote	Control
Transport Setup	
Quality :	NORMAL -
Resolution :	360*240 •
Network Setup	
TimeOut Value :	60
Emergency Port : (1024 - 5000)	2001
Center Port :	2000
(1024 - 5000)	
Image Port :	2002
(1024 - 5000)	
Search Port :	2003
(1024 - 5000)	

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.
- 5. 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.
- 3. 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."

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RK.jpg	è	
Verify	Close	
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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.
- 3. 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.
- 7. When the InstallShield Wizard Complete window appears click Finish. Setup is now complete.

Loading Video from DVD or Hard Drive

- 1. Open the Backup Viewer program: Start > Programs > Surveillix > Backup Viewer > Backup Viewer.
- 2. Click Open. The Total Backup Search window will open.
- a. 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.
- 3. 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.

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