

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

TOSHIBA

Surveillix[™] IPR User Guide

Manual Edition 27810AC – FEBRUARY 2007

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.

LIMITED WARRANTY NETWORK VIDEO RECORDER

The Imaging Systems Division of Toshiba America Information Systems, Inc. ("ISD") makes the following limited warranties. These limited warranties extend to the Original End-User ("You[r]").

Limited Two (2) Year Warranty of Labor and Parts

The Imaging Systems Division of Toshiba America Information Systems warrants this product and parts against defects in material or workmanship for a period of two years from the date of original retail purchase by the end-user. During this period, ISD will repair or replace a defective product or part with a new or refurbished item. The user must deliver the entire product to the Surveillix DVR Repair Facility. The user is responsible for all transportation and insurance charges for the product to the DVR Repair Facility. ISD reserves the right to substitute Factory Refurbished Parts and / or Factory Refurbished Product in place of those in need of repair.

Step-by-step Procedures - How to Obtain Warranty Service

[1] Verify operation of the unit by checking the instruction manual and web site for the latest updates at

www.toshiba.com/taisisd

[2] If there is a defect in material or workmanship, contact the Surveillix DVR Support Center at (877) 855-1349 [877-1-FIX] to speak to a technical support representative and schedule service.

[3] Arrange for delivery of the product to the Surveillix DVR Repair Facility. Products must be insured and securely packed, preferably in the original shipping carton. A letter explaining the defect and a copy of the bill of sale or other proof of purchase must be enclosed with a complete return street address and daytime telephone number. The Tracking Number should also be indicated on your documents. Charges for transportation and insurance must be prepaid by the end-user.

Critical Use Disclaimer

The product is not designed for any "critical applications." "Critical applications" means life support systems, exhaust or smoke extraction applications, medical applications, commercial aviation, mass transit applications, military applications, homeland security applications, nuclear facilities or systems or any other applications where product failure could lead to injury to persons or loss of life or catastrophic property damage. Accordingly, Toshiba disclaims any and all liability arising out of the use of the product in any critical applications.

Your Responsibilities

The above warranty is subject to the following conditions:

[1] You must retain the bill of sale or provide other proof of purchase.

- [2] You must schedule service within thirty days after you discover a defective product or part.
- [3] All warranty servicing of this product must be made by the Surveillix DVR Repair Facility.

[4] The warranty extends to defects in material or workmanship as limited above, and not to any products or parts that have been lost or discarded by user. The warranty does not cover damage caused by misuse, accident, improper installation, improper maintenance, or use in violation of instructions furnished by ISD. The warranty does not extend to units which have been altered or modified without authorization of ISD, or to damage to products or parts thereof which have had the serial number removed, altered defaced or rendered illegible.

ALL WARRANTIES IMPLIED BY STATE LAW, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY STATE LAW AS HEREBY LIMITED, THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PRODUCTS OR PARTS. IN NO EVENT SHALL ISD BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation may not apply.

No person, agent, distributor, dealer, service station or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of ISD arising under this warranty or under any statute, or law of the United States or any state thereof, is hereby limited to one year from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law. Some states do not permit limitation of the time within which you may bring an action beyond the limits provided by state law so the above provision may not apply to user. This warranty gives the user specific legal rights, and user may also have other rights, which may vary from state to state.

TOSHIBA AMERICA INFORMATION SYSTEMS, INC. Imaging Systems Division

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IMPORTANT SAFEGUARDS

- 1. Read Owner's Manual After unpacking this product, read the owner's manual carefully, and follow all the operating and other instruction
- 2. Power Sources This product should be operated only from the type of power source indicated on the label. If not sure of the type of power supply to your home or business, consult product dealer or local power company
- 3. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 4. Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products that produce heat.
- 5. Water and Moisture Do not use this product near water. Do not exceed the humidity specifications for the product as detailed in the Appendix section in this manual
- 6. Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 7. **Power Cord Protection** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electrical shock.
- 9. Lightning For added protection for this product during storm, or when it is left unattended and unused for long periods, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power line surges.
- 10. Object and Liquid Entry Points Never insert foreign objects into the IPR unit, other than the media types approved by Toshiba, as they may touch dangerous voltage points or short-out parts that could result in a fire or electrical shock. Never spill liquid of any kind on the product.
- 11. Accessories Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious personal injury and serious damage to the product.
- 12. Disc Tray Keep fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.
- 13. Burden Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.
- 14. Disc Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

IMPORTANT SAFEGUARDS, continued

15. Damage Requiring Service – Unplug the unit from the outlet and refer servicing to qualified service personnel under the following conditions:

When the power-supply cord or plug is damaged.

If liquid has been spilled, or objects have fallen into the unit.

If the unit has been exposed to rain or water.

If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.

If the unit has been dropped or the enclosure has been damaged.

When the unit exhibits a distinct change in performance - this indicates a need for service.

- 16. Servicing Do not attempt to service this product as opening or removing covers may expose the user to dangerous voltage or other hazards. Refer all servicing to qualified personnel.
- 17. **Replacement Parts –** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
- 18. Safety Check Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

NOTES ON HANDLING

Please retain the original shipping carton and/or packing materials supplied with this product. To ensure the integrity of this product when shipping or moving, repackage the unit as it was originally received from the manufacturer.

Do not use volatile liquids, such as aerosol spray, near this product. Do not leave rubber or plastic objects in contact with this product for extended periods of time. Rubber or plastic objects left in contact with this product for extended periods of time will leave marks on the finish.

The top and rear panels of the unit may become warm after long periods of use. This is not a malfunction.

NOTES ON LOCATING

Place this unit on a level surface. Do not use it on a shaky or unstable surface such as a wobbling table or inclined stand.

If this unit is placed next to a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. If this happens, place the IPR unit away from the TV, radio, or VCR.

NOTES ON CLEANING

Use a soft dry cloth for cleaning.

For stubborn dirt, soak the cloth in a weak detergent solution, wring well and wipe. Use a dry cloth to wipe it dry. Do not use any type of solvent, such as thinner and benzene, as they may damage the surface of the IPR unit.

If using a chemical saturated cloth to clean the unit, follow that product's instructions.

NOTES ON MAINTENANCE

This IPR unit is designed to last for long periods of time. To keep the IPR unit always operational we recommend regular inspection maintenance (cleaning parts or replacement). For details, contact the nearest dealer.

NOTES ON MOISTURE CONDENSATION

Moisture condensation damages the IPR unit. Read the following information carefully.

Moisture condensation occurs during the following cases:

When this product is brought directly from a cool location to a warm location.

When this product is moved to a hot and humid location from a cool location.

When this product is moved to a cool and humid location from a warm location.

When this product is used in a room where the temperature fluctuates.

When this product is used near an air-conditioning unit vent

When this product is used in a humid location.

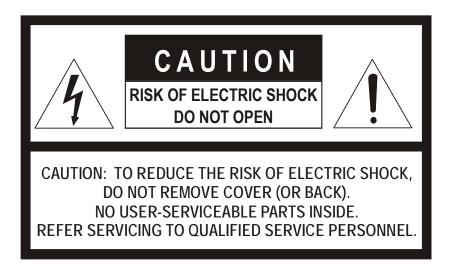
Do not use the IPR unit when moisture condensation may occur.

If the IPR unit is used in such a situation, it may damage discs and internal parts. Remove any DVD discs, connect the power cord of the IPR unit to the wall outlet, turn on the IPR unit, and leave it for two to three hours. After two to three hours, the IPR unit will warm up and evaporate any moisture. Keep the IPR unit connected to the wall and moisture will seldom occur.

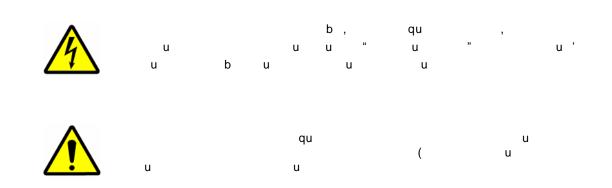
WARNING

TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

CAUTION



EXPLANATION OF GRAPHICAL SYMBOLS



RACK MOUNT INSTRUCTIONS

Elevated Operating Ambient – If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

Reduced Air Flow – Installation of the equipment in a rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.

Mechanical Loading – Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Circuit Overloading – Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Grounding – Grounding of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

UL NOTICE

Underwriters Laboratories Inc. has not tested the performance or reliability of the security or signaling aspects of this product. UL has only tested for fire, shock and casualty hazards as outlined in UL's Standard for Safety UL 60950-1. UL Certification does not cover the performance or reliability of the security or signaling aspects if this product. UL MAKES NO REPRESENTATIONS, WARRANTIES OR CERTIFICATIONS WHATSOEVER REGARDING THE PERFORMANCE OR RELIABILITY OF ANY SECURITY OR SIGNALING RELATED FUNCTIONS OF THIS PRODUCT.

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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 IPR unit 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 IPR units represented by this manual without notice.

The following text and symbols 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.

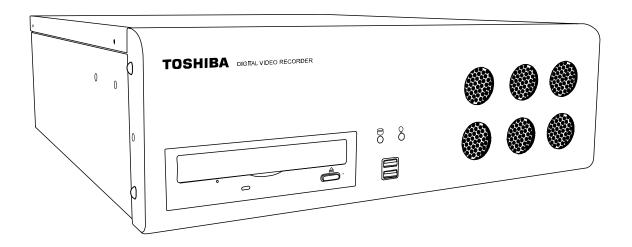
TIP: Text set off in this manner indicates topics and points of interests that can be helpful when using or settings up the IPR unit.

TECHNICIAN NOTES

	WARNING: Only authorized technicians trained by Toshiba should attempt to repair this IPR unit. 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.
\bigtriangleup	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 IPR unit.

INTRODUCTION

PRODUCT DESCRIPTION



A Surveillix IPR is simply a server that performs as a High Definition Digital Recorder. By utilizing the many features of a computer, including processing power, storage capacity, graphics compression, and security features, the IPR unit is more powerful than the analog recorders of the past.

The Surveillix IPR server software comes pre-configured for fast and seamless integration within your existing IT infrastructure. Designed around Microsoft® Windows® XP Embedded, the server software offers unparalleled stability, security, and ease of use. Accordingly, your security investment has never been easier to maintain. Multiple users may 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 powerful software enables users to establish recording schedules, create motion detection zones, use PTZ controls, and configure alarm inputs and outputs for each of the system's cameras. With the latest advancements in the IPR Server Software, 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.

The Surveillix IPR is high performance security product ready to meet today's security demands.

FEATURES

Toshiba's Surveillix IPRs include the following new features:

Optimized and Designed for Microsoft® Windows XP Embedded®

Remote System Operation & Configuration

Supports Multiple Simultaneous Remote Connections

PAN / TILT / ZOOM Controls via IP Protocols

Simultaneous Video Search, Playback and Backup

Video Indexes for Easy Searching

Multiple Levels of Security Access

Up to 16 Network Based Video Inputs

Up to 1 Channel of Audio Recording

High Performance, Durable, Rack mount Case

Output the Video to a NTSC/PAL Display

Digital Signature Support

Continuous, Motion Detection, Alarm, Pre-Alarm, and Scheduled Recording Modes

Records at the encoding resolution of the network camera

CONTROLS AND CONNECTIONS

This chapter includes the following information:

- Input / Output Connector Locations
- Front Panel Controls and LEDs
- Rear Panel Connectors

SYSTEM SPECIFICATIONS

Surveillix[™] state-of-the-art Network Video Recorders are housed in a high performance and versatile 3U Rack-Mount case allowing easy storage of multiple IPRs for enterprise applications. Every Surveillix IPR unit comes equipped with the latest technology:

Intel® Pentium® IV Processor

100/1000 Gigabit Ethernet

512 MB (8 Channel) / 1 GB (16 Channel) of System Memory

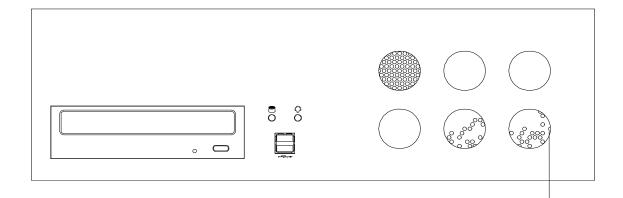
128 MB Video Card

DVD RW Recorder

250 GB Video Storage Drive (minimum)

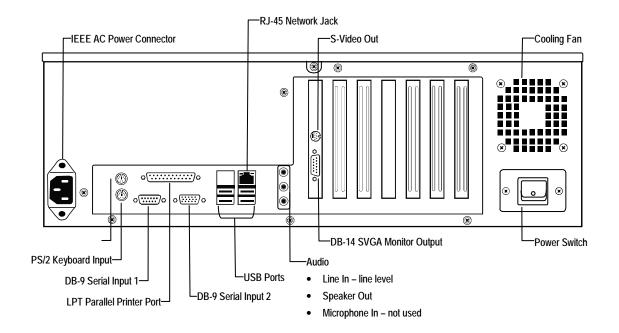
FRONT PANEL CONTROLS AND LEDS

The front panel of the IPR unit contains the devices that will be commonly used for data removal, retrieval, and backup replacement. The most common components and buttons are shown below:



REAR PANEL CONNECTORS

The rear panel of the IPR unit contains the connectors used to attach cameras, sensors, and relays to the IPR. Below are diagrams that outline the location and description of each connector:



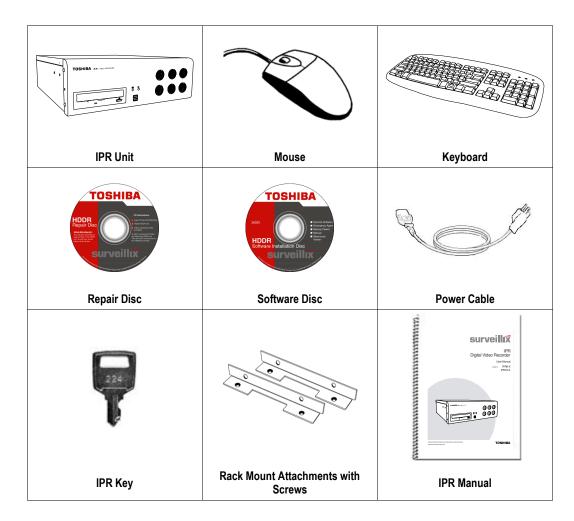
GETTING STARTED

This chapter includes the following information:

- Included Components
- Setting the IPR Hardware
- Optional Components

IDENTIFYING INCLUDED COMPONENTS

Surveillix[™] IPRs come with a mouse, keyboard and selected software and cables. Identify the following components to make sure everything has been properly included with the new IPR unit. If any of the following items are missing, contact the dealer to arrange a replacement.

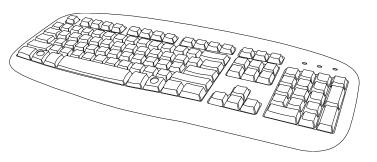


KEYBOARD SETUP

To attach the keyboard to the IPR unit, plug the end of the Keyboard into the keyboard PS/2 Port located on the back of the machine.

The keyboard PS/2 Port can be identified by the purple color.

Refer to the Rear Panel Connectors diagram for more information.



KEYBOARD AND MOUSE SETUP

To attach the mouse to the IPR unit, plug the end of the mouse into the mouse PS/2 Port located on the back of the machine. The mouse PS/2 Port can be identified by the green color.

The mouse uses a cursor called a pointer. Pointers come in many different shapes but are most commonly shaped like an arrow.

The mouse has two buttons: a left button and a right button. Quickly pressing and releasing one of these buttons is called clicking. Sometimes you will need to double-click – or click the same button twice quickly.

In this manual:

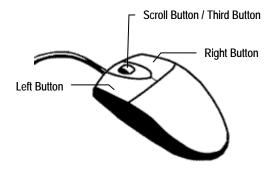
Click means to position the mouse cursor over an item and to single click the left button.

Right click means to position the mouse cursor over an item and to single click the right button.

Double-click means to position the mouse cursor over an item and to click the left button twice.

Select means to position the mouse cursor over a radio button, checkbox, or list item and click on it.

The scroll wheel in between the two buttons is used for added navigation functionality. By moving the wheel with index finger (scrolling), quickly move through multiple pages, lines, or windows. The wheel may also function as a third button allowing the user to quickly click or double-click an icon or a selected item



MONITOR SETUP

The IPR may have one or both of the following connections available for monitors which can be used individually or in tandem.



SVGA Output

To VGA Monitor.

S-Video Output

To TV/VCR.

Attach the monitor or monitors to the rear of the IPR unit using the cable supplied by the monitor manufacturer. Refer to the monitor manual for detailed information on how to setup and use it.

NOTE: The monitor must be capable of having a screen resolution of 1024 x 768 and display colors of at least 32 Bit

POWER SETUP

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.
If the electrical plug you are using does not have a ground plug receptacle contact a licensed electrician to have it replaced with a grounded electrical outlet.
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.

TURNING ON THE IPR

- 1. Turn on the monitor and any external peripherals (ex. Printers, External Storage Devices, etc.) connected to the IPR unit.
- 2. Turn on the Power Switch located in the rear of the IPR unit.
- 3. The IPR will run a series of self-tests. After two or three minutes, a series of messages may be displayed as the various hardware and software subsystems are activated. Under normal circumstances, users should not be asked to respond to these messages. If asked to respond to the messages (adding a Printer, Monitor, etc for the first time) follow the instructions carefully.
- 4. Startup is complete when the Surveillix[™] IPR software is finished loading and displays the main menu screen.

TURNING OFF THE IPR

- 1. Click the Exit Button on the main menu screen of the IPR software.
- 2. Select Power Off from the drop down menu, which appears in the Power Off prompt, and click OK.

The IPR unit may take several minutes to shut down completely.

CAUTION: Always be sure to follow the proper procedures when turning off the power to the IPR unit. NEVER disconnect the power to the IPR unit while it is still running or in the process of shutting down. Doing so can cause data loss, file corruption, system instability and hardware failure.

IPR BASICS

This chapter includes the following information:

- Registration and Upgrade
- Turning the IPR on and off
- Becoming familiar with the Display screen
- Defining Screen Divisions

IPR REGISTRATION

Important Information

Have the following information on hand before registering the IPR upgrade

IPR Software Serial Number: The Product Serial Number is the unique number that Toshiba provided with the software.

System ID: The System ID is a number generated by the IPR Software. This is a unique code generated using the MAC address of the computer running the software. The following steps illustrate how to obtain the unique System ID.

Locating the System ID

- 1. Enter Setup
- 2. Click Camera Setup
- 3. Click the Registration Button
- 4. In the Network Device Authentication Window, the System ID is located in the "Add a new Serial Key" section.

Network Device Authentication			
The Registered Serial K	w.		
Serial No.	Total	Used	Free
availability / total		070	
Add a new Serial Key			
System ID 7D8E0	92C52E53		
new serial number			
I		Add a	serial number
			OK

Obtaining an Unlock Code

The following steps are provided to assist in registering the IPR upgrade

- 1. Open an Internet browser and to http://register.surveillixdvrsupport.com
- 2. Enter the Product Serial Number provided by Toshiba
- 3. Enter the System ID generated by the IPR Software
- 4. Click Submit

Product Serial Number	
System ID	
	Submit

5. Verify the information

6. Click Next if the information provided is correct

Product Name	01 Channel IP Camera Unlock
Product Serial Number	HINCORCHINE.
System ID	4a08753ad7508
DVR Serial Number:	8982928284
Please verify the informat	ion and press NEXT to proceed.
< Back Next >	

- 7. Once the information is validated, the unlock code will be generated
- 8. Print the page and save for later reference

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	KROBIOBEL-IARRENCEED		
Product Product SN	01 Channel IP Camera Unlock		
DVR SN	KONCELENCEM		
NOTE: This unlock code cannot be transferred to a different computer.			
Print this Page			

Unlocking a New Network Device

After obtaining your unlock code from the Toshiba Surveillix Registration Site, follow theses steps to unlock your new upgrades on your Surveillix IPR

- 1. Start the Surveillix IPR
- 2. Enter Setup
- 3. Enter Camera Setup
- 4. Click the Registration button
- 5. Enter the Unlock Code generated by the Surveillix Registration Site into the "new serial number" field
- 6. Click Add a Serial Number
- 7. Once the new serial number has been added to the list, click OK

Network Device Authentication 🛛 🛛 🔀			×	
The Registered Serial Key				
Serial No.	Total	Used	Free	
availability / total	0/0			
avanability'r total				
Add a new Serial Key				
System ID 7D8E0D92C52E5	53			1
new serial number				
		Add a ser	ial number	
				_
			OK	

EXPORTING IPR SETTINGS

Exporting IPR settings can help configure multiple IPRs quickly or reconfigure a unit that has failed. Some things must be kept in mind when using this feature.

You cannot use this function on:

- IPRs that are different models.
- When upgrading from certain software versions. You cannot use this feature when upgrading from v1.x to v2.x
- 1. Exit to Windows by clicking the Exit Button on the Main Display Screen and selecting Restart in Windows Mode. (See the Display Screen section later in this chapter)
- 2. Click Start > Programs > Surveillix > VFormat
- 3. Click the Export Button in the System Settings tool section.

🔎 DVR Utility	
Video Setting	Time zone setting
NTSC Set	Set Date and Time
TW99 Set	System Setting tool
Comb ON (Default) Set Set	Import Export
HSCALE for PAL	I ✓ TV out Setting
CPU : P4 /478 Celeron 💌 Set	TV out 32 CH
Live Scale : S/W Scale ▼ Set	Log View
(only for S/W Overlay)	Log View
CD R/RW Format Util	Need For Schedule Backup
Find Format Utility	Confirm Windows System password
	AGC Mode
	AGC Mode : AUTO 💌 Set
	OK Cancel

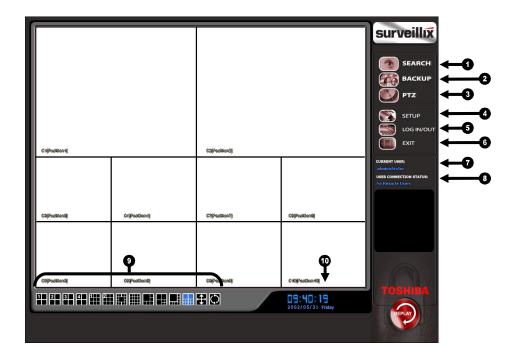
- 4. Select a location to save the settings file and click Save. The DVR Utility will export the IPR settings and automatically close.
- 5. Click the OK Button to close the VFormat Utility.

IMPORTING IPR SETTINGS

- 1. Exit to Windows by clicking the Exit Button on the Main Display Screen and selecting Restart in Windows Mode. (See the Display Screen section later in this chapter)
- 2. Click Start > Programs > Surveillix > VFormat
- 3. Click the Import Button in the System Settings Tool section.
- 4. Select the location of the settings file to import and click Open.
- 5. Click Yes to import the data file.
- 6. Click the OK Button to close the VFormat Utility.

DISPLAY SCREEN

Each time the IPR is started, 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.



1	Search	Opens the Video Search Display.	
2	Backup	Displays the Backup Center Window.	
3	PTZ	Opens the Pan / Tilt / Zoom Controller	
4	Setup	Displays Setup Menu, from which all customizable settings can be edited.	
5	Login	Allows you to login as a different user.	
6	Exit	Displays several options, including Shut Down, Restart, and Restart in Windows Mode.	
7	Current User	Displays the name of the user currently logged onto the IPR.	
8	Remote Client Status	Displays users connected remotely to the IPR unit.	
9	Screen Division Buttons	Allows the view of one or more sets of cameras at a time. They are organized in several different groups such as $1x1$, $4x4$, and $8x8$.	
10	Date/Time	Displays current date and time. This date and time is stamped onto the recorded video and is displayed whenever the video is played back.	

CAMERA VIEW

The Camera status for each camera is displayed next to the Camera number (or name) on the Video Display Area. The following are



1	Camera Number and Name	Displays the camera number and the custom name given to the camera.
2 Recording Status Displays the current recording status of the camera using symbols.		
3	Special Recording	Displays text relating to the type of recording that is occurring.

RECORDING STATUS INDICATOR

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

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

There are two types of IPR 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 MENU

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.

2	
3	
4	
1	

1

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

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

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

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

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

2nd Nine Camera View - Displays cameras 8-16 in the Video Display Area. To return to a different Multi-Camera

2



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

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.

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.

SETUP OPTIONS

This chapter includes the following information:

- Setup Overview
- Add Network Recording Device
- Channels
- Color
- Schedule
- Speed
- Motion Detect
- Password
- Pan/Tilt
- Audio

SETUP OVERVIEW

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

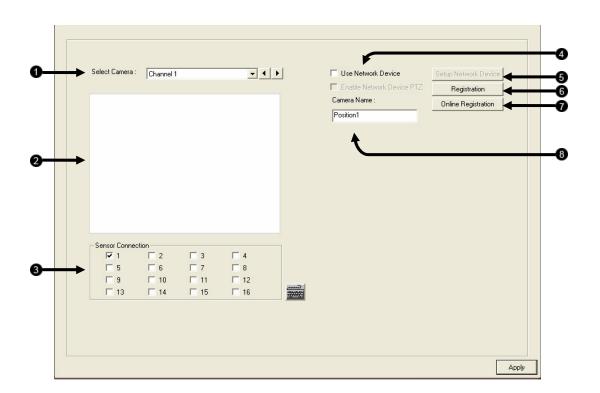
- Recording Schedules By optimizing the recording schedule you can increase the amount of pertinent recorded video that is saved on the IPR and keep it longer. You can optimize the type of recording done by adding motion detection to this as well, again increasing the amount of useful video.
- IPR Access 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 IPR unit.
- 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.
- Adjusting Camera Color By adjusting each camera's color settings you can optimize the clarity and detail that is recorded.

		Enable Network Device PT Camera Name : Position1	Z Registration Online Registration	
тоя	бніва			SCHEDULE SCHEDULE GENERAL STRONG
Sensor Connection	Г 3 Г 4			
	□ 7 □ 8 □ 11 □ 12			
			Appi	
	67691012	1,	40:00 AM /16/2007 Tue	TOSHIB

SETUP SCREEN OVERVIEW

1	Setup Options	Toggle between different setup options
---	---------------	----------------------------------------

CAMERA SETUP



1	Select Camera	Selects the camera to be edited	
2	Camera Display	Displays the live camera feed from the camera selected	
3	Sensor Connection	Specify which sensors are currently in use.	
4	Use Network Device / Enable PTZ	Enables setup and use of Network Camera and PTZ Functionality.	
5	Setup Network Device	Opens the Network Device Setup Menu	
6	Registration	Opens the Registration Menu for entering Unlock Codes to activate the software	
7	Online Registration	Opens the Online Registration Menu for activating pre-registered software.	
8	Camera Name	Specify a name for each camera	

NETWORK DEVICE SETUP

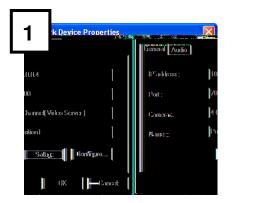
1	Setup Button	Specify the necessary information to setup a network device
2	Configure Button	Opens the Setup Interface for the selected network device after setup is complete

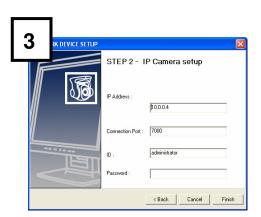
Network Device P	roperties	×
General Audio		
IP address :		
Port :		
Camera :		
Name :	Position1	
	Setup	
	OK Cano	el :
	0 0	

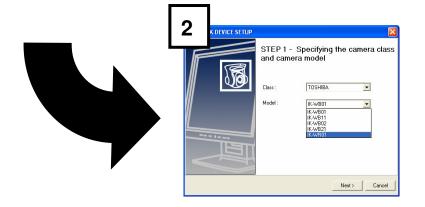
1	Audio Display	Used to link audio recording on the
		local IPR to audio input(s) on
		supported network devices

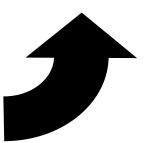
Setting Up a Network Device

- 1. Check the Use Network Camera Box, once selected the Setup Network Device Button will appear. If your Network Device is equipped with PTZ capabilities, the Enable Network Device PTZ may be selected.
- 2. Now that your Use Network Device checkbox is selected, begin setting up the network camera by clicking the Setup Network Device Button
- 3. Once in Network Camera Properties, select setup to configure your Network Device.
- 4. Specifying the camera class and camera model This interface allows selection of the desired Network Device model and manufacturer.
- 5. IP Camera Setup This interface is used to provide connection properties for the selected Network Device.
- 6. Click Finish to further configure the specific camera options



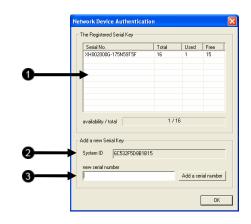




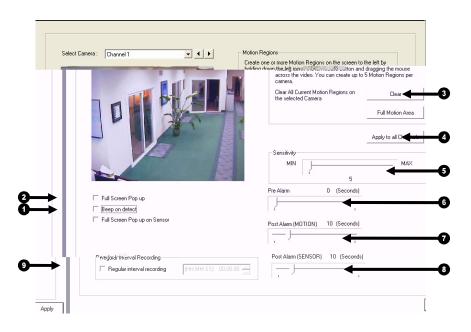


REGISTRATION WINDOW

1	Registered Serial Key Display	Lists a summary of installed licenses and Network Video Channels used
2	System ID	Displays the System ID used to activate network devices
3	Registered Serial Key	Insert the registration number provided at activation



MOTION SETUP

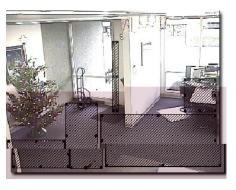


The IPR unit allows the user to adjust several different Motion Settings and create motion detection areas.

1	Beep on Detect	When motion is detected an alarm sounds.				
2	Full Screen Pop-Up	When motion is detected, the camera displays in full screen mode.				
3	Clear	Clears all Motion Regions on the selected camera.				
4	Apply to all Channels	ply to all Channels Applies the current motion regions to all camera channels				
5	Sensitivity	Adjusts the sensitivity within the designated Motion Area.				
6	Pre Alarm Adjusts the amount of seconds recorded before an alarm event.					
7	Post Alarm (Motion) Adjusts the amount of seconds recorded after a Motion alarm event.					
8	Post Alarm (Sensor) Adjusts the amount of seconds recorded after a Sensor alarm event.					
10	Regular Interval Recording	Select to enable recording at the interval specified in the time box.				

Create a Motion Area

- 1. Place the mouse pointer at the upper left hand corner of the area to designate, click and hold down the left mouse button, drag the mouse. Let go of the button when the Motion Area is the size desired.
- 2. Create up to five Motion Regions per camera. Resize and move them by dragging the sides and corners of the Motion Area.



Clear Motion Area

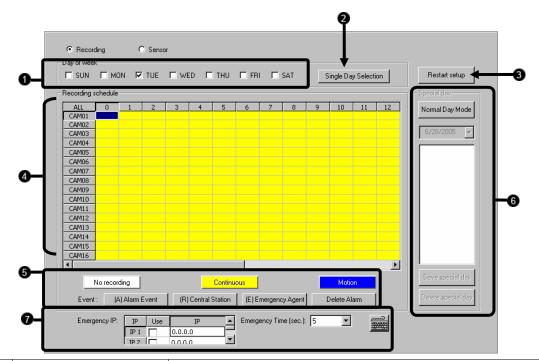
To Clear all Motion Regions on the selected Camera click the Clear Button

Clear

SCHEDULE SETUP

Recording Schedule

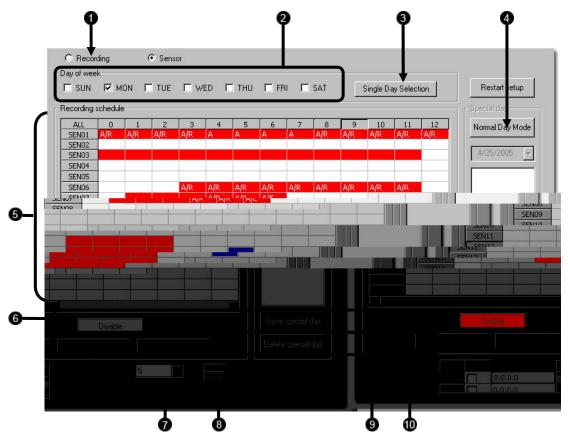
The Recording Schedule Window allows the user to create different recording schedules based on the day, time, and type of recording desired. In addition, this window contains the System Restart options that allow the user to perform basic system maintenance by automatically scheduling the IPR to restart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



1	Day of the Week	Selects the day of the week for the schedule being made.			
2	Day Selection Mode	Choose between Single Day and Multi Day Selection.			
3	System Restart Setup	isplays the restart options. The IPR unit allows you to specify the unit to be automatically estarted one or more days a week.			
4	Recording Schedule Window	Displays and allows the user to edit the current Recording Schedule.			
5	Recording Mode	Selects the Recording Mode. The Recording Modes are No Recording, Continuous Recording and Motion Recording.			
6	Special Day Recording	Create special recording schedules for specific days.			
7	Emergency IP Setup	Configure IP addresses to be notified based upon certain Alarm-related criteria. NOTE: This function relies upon the use of the Emergency Agent Software			

Sensor Schedule

The Sensors will supersede all other types of recording modes (Motion, Continuous, No Recording). 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.



1	Recording	Toggles to the Recording Window (default)			
2	Day of the Week	Selects the day of the week for the schedule being made.			
3	Single Selection Mode	Toggles between Multi and Single day selection			
4	Special Day Recording	Toggle between Special Day Mode and Normal Day Mode.			
5	Recording Schedule Window	Displays and allows the user to edit the current Recording Schedule			
6	Enable/Disable	Enables the selected sensor for the time period specified			
7	Use	Enables/Disables the user defined Emergency IP Address.			
8	Emergency Time	Specifies the amount of time (in seconds) to transmit the video to the Emergency Agent Software.			
9	Emergency IP	Specifies the IP Address of the PC running the Emergency Agent software			
10	Event	Define: motion as an Alarm Event, whether to transfer the Alarm Event to the SCS Multi- Site Software, and/or whether to send video to the Emergency Agent software.			

Create a Recording Schedule

- 3. Select a day to begin creating the schedule for -or- Select the Day Selection Mode Button, enabling Multi Day Selection, to create the same schedule for multiple days.
- 4. 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

- 5. Select the Schedule Menu option and select the Sensor Radio Button. Select a single day or click the Day Selection Mode Button to include multiple days in the schedule.
- 6. Highlight the Time-Blocks within the Recording Schedule Window for the sensor(s) to enable and schedule. Once the time blocks are highlighted click the Enable Button. 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 the Alarm Events to Central Station software.

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 are over, any motion that occurs should be treated as an Alarm.

- 1. Select the Schedule Menu Select either Recording or Sensor
- 2. 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

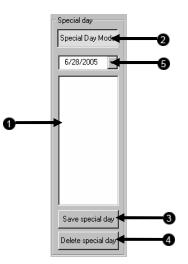
Emergency Agent Schedule

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 in the IP Address
- 3. Select the 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 field.
- 5. 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.



1	Special Day Schedule	Displays the current saved Special Days.	
2	Special Day Mode	ters / Exits the Special Day Mode. Once in Special Day Mode you can create, edit and lete Special Days.	
3	Save Special Day	Saves the selected Special Day Schedule.	
4	Delete Special Day	Deletes the selected Special Day Schedule.	
5	Date Menu	Displays the current day of scheduling and allows selection of Special Day date.	

Creating/Editing a 'Special Day' Schedule

- 1. Click the Normal Day Mode Button 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 to schedule. Once the desired Time-Blocks are highlighted, click a Recording Mode Button.
- 4. When finished creating the schedule click the Save Special Day Button. The special day should now appear as a date in the Special Day Schedule.

Deleting a 'Special Day' Schedule

- 1. Select a Special Day from the Special Day Schedules
- 2. Click the Delete Special Day Button.

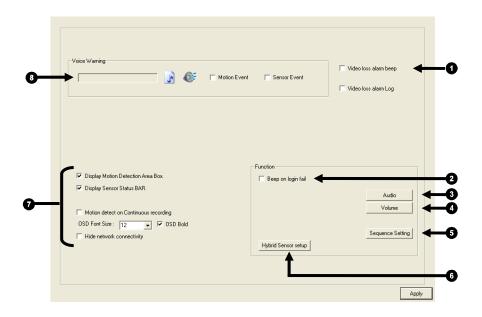
SYSTEM RESTART SETUP

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

	4	
9	ystem restart setup	×
_	System Restart Time	
_ 0-	Monday	Friday
0		🗖 Enable Time: 00 💌 00 💌
6	C Restart © Off	O Restart 💿 Off
	Tuesday	Saturday
	🗖 Enable Time: 00 💌 00 💌	🗖 Enable Time: 00 💌 00 💌
	O Restart 💿 Off	C Restart 💿 Off
	- Wednesday	- Sunday
	🗖 Enable Time : 00 💌 00 💌	Enable Time: 00 💌 00 💌
	C Restart 💿 Off	C Restart C Off
	- Thursday-	
	Enable Time: 00 🔽 00 💌	
	○ Restart	
		OK Cancel

1	Day of the Week	Displays the day for the settings being adjusted.		
2	Enable	Enables the IPR to shut down the computer at the time specified. This option alone does NOT restart the IPR, it just turns it off.		
3	Restart / OFF	Enables the IPR to restart itself once it has been shut down.		
4	Time	Specifies the time to Shut Down or Restart the IPR unit.		

GENERAL SETUP



1	Video Loss Alarm	Allows you to customize the settings in the event of video loss			
2	Beep on Login Fail	Enables the IPR Software to beep continuously in response to a failed login attempt. Only an authorized login will stop the beeping.			
3	Audio	Enable audio capture on available channels			
4	Volume	Adjusts the Speaker Volume or Mute all speakers			
5	Sequence Setting	Allows the picture to the Video Out to automatically cycle through channels at a set speed. Ex: .Cycle through channels 1-6 at 4 second intervals.			
6	Hybrid Sensor Setup	Access Hybrid Sensor Setup to configure settings for Hybrid Sensors.			
7	Display	Allows the user to enable the Motion Detection Area Box, the Sensor Status Bar and the Control Status Bar on the Main Display Screen and adjust the On Screen Display font size for cameras.			
8	Voice Warning	Select a custom sound to play when a Motion or Sensor Event occur.			

Voice Warning

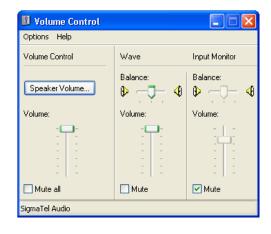
The IPR unit allows users to play a sound file whe

Volume

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

Volume Options:

- Slider Controls Used to adjust the literal volume for the respective devices listed.
- Mute Checkbox Check the mute box to mute volume on any of the device columns or check the Mute All checkbox to mute all volume on the IPR.



Audio

The Surveillix IPR is capable of recording 1 channel of audio AUDIO FEATURES:

- 8000 Hz playback in Live Mode
- Up to 48000 Hz playback in search mode
- Mono Sampling

DATA SIZE (Per channel)

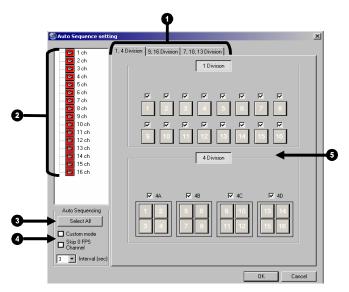
- 1 Second: 1625 bytes
- 1 Minute: 97,500 bytes
- 10 Minute: 975,000 bytes
- 1 Hour: 5,850,000 bytes
- 1 Day: 140,400,000 bytes (Approx 140MB)

Click the Audio Capture Channels box to enable recording and adjust the Gain to the desired level.

Aud	lio setup	×
٢	Capture]
	🗖 СН1	
_ G	iain]
	127 - -	
_ L	ive— Audio Live]
	CH1	
	-	
	ОК	1

Auto Sequencing Setting

Auto Sequencing is used either in the main 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 and at specified intervals, sequences through each selected channel.



1	Division Tabs	These three tabs present the various division options for Auto Sequencing. Ex: 4 division creates a quad-display.
2	Channel Selection	Click each channel to include in Auto Sequencing.
3	Select All	Clicking this button causes all channels to be included in Auto Sequencing.
4	Auto Sequencing settings	This area allows users to define settings for Auto Sequencing. Custom Mode allows users to define non-standard divisions. Skip 0 FPS Channel causes cameras with no video signal to be skipped. The Interval Menu allows users to select the interval (in seconds) between switching Cameras.
5	Division selections	Each Division Section allows the user to define which cameras will be included in the sequence. Check individual Cameras to include in the Auto Sequence.

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.

Quality :	NORMAL	Transport Rate : 100	•
Resolution :	360*240		
Network Setup		PPP Setup(Emerge	ncy)
TimeOut Value :	61	Use PPP	
Emergency Port : (1024 - 5000)	2001	Password :	
Center Port :	2000	Confirm :	
(1024 - 5000)		Phone Number :	
Image Port :	2002		
(1024 - 5000) Search Port :	2003	Modem Select :	
(1024 - 5000)	12003	N/A	7
Web Function			
🔲 Web Viewer(i	DVR)		
iDVR Port : 30	01		
-Keyboard Control-			

1	Disable Remote Control	Enables or disables access to the IPR from remote connections.				
2	Quality	Adjusts the resolution quality when transferring video to a remote client.				
3	Resolution	Adjusts the resolution of the images being sent to remote clients. By setting the resolution low, the images will be sent faster, however, the image quality will be reduced considerably.				
4	Network Setup	Specifies the Ports to use when transferring data.				
5	Web Function	Enables the use of the Web Viewer interface.				
6	View IP Address	Allows the user to view the IP configuration of the IPR.				
7	Transport Rate	Transport Rate is essentially a bandwidth throttle. This throttle is based on percentage of free network.				
8	PPP Setup (Emergency)	Defines the modem and PPP information to dial to a remote client when the Emergency Agent is activated.				
9	Keyboard Control	Enables the use of RS-232 Keyboards with the IPR.				

INFORMATION

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

»	Site Information Site Code : Board Serial # : System Serial # : Decoder : Video Format :	100-000	A: Drive Removable C: Drive Total Space : 238464 MB Free Space : 226565 MB D: Drive CD Drive P: Drive Q: Drive	DVR Version 3.0.0	0
	Notes :		Telephone Number		←0 ←0

1	Drive Information	Displays the Total Space and Free Space of the Drives installed in the IPR.
2	Site Version	Displays the IPR Software version.
3	Contact Number	Displays a user specified Contact Phone Number.
4	Tech Support	Displays the Tech Support Phone Number.
5	Site Information	Displays misc. information about the IPR.
6	Site Code	A user-specified unique identification name that is used by other IPR software to connect to the IPR. (Remote, Emergency Agent, SCS)
7	Notes	Enter comments relative to the description of this IPR.

ADMINISTRATIVE SETUP

The Log Viewer displays detailed information about the IPR, including Shut Down and Restart information, User Logins and Recording problems and failures. This can be a valuable tool to Administrators.

				Da	ata Man	iagei	ement	Remov	e USB Device	Disk	Managem	ent	User Managem	ent
Sur 5 12 19 26	6 13 20	June 2 Tue Wed 7 8 14 15 21 22 28 29		Fii 3 10 17 24	Sat 4 11 18 25		Log Selec Syste C Even C Alarm C Drive	m Log t Log Log	Storage C Log Manag		– Export – Choose Start D End D	ate :	eriod to export 5/28/2005 5/28/2005 Log Expo	- - - -
	•	Toda	ay	-										
No	Date &				Content	S			.og Value			User		
1		6.28 08:5		Start					/er(2.4.4 [Build :	9]) - Lib(3	1.502[_[4]	Default		
2 3		6.28 08:5 6.28 08:5			site Ari ent Wor		Normal term) Drive			Default Default		
4		6.28 08:5 6.28 08:5			inate ol				Dive			Default		
5		6.28 08:5		Start		1 510	6	1	/er(2.4.4 [Build :	911 . Libra	502) M1			
6		6.28 08:5				ter N	Normal term		citz.4.4 [Duild.	ojj - Libija	.302[[4]	Default		
7		6.28 08:5			ent Wor) Drive			Default		

1	Calendar	Displays the days with Log information in a bold format
2	Log Selection	Displays the Hardware Log file information which includes Scan Disks, and system recording successes and failures.
3	Log View	Displays information pertaining to Logins, reboots and non system events.
4	Export	Allows the log files to be exported in one to seven day increments.
5	Data Management	Allows the user to change the IPR's preferred method of Data Storage
6	Remove USB Device	Click to safely remove a connected USB device
7	Disk Management	Opens the Windows Disk Management console.
8	User Management	Opens the User Management window, allowing the user to define user permissions, passwords and restrictions.

Storage Check

The Storage Check allows users to configure E-mail alarms, assign users to E-mail alarms and configure storage checks on the Surveillix IPR.

9 9 9 9	Ø
Emri Alar	×
General Users Storage Check Record	ing Data Check Alarm Event
Enable E-mail Alarm	
Send User	
From Name	_
From Address	
Primary SMTP Setting	Use Secondary SMTP
Host Address	Host Address
User name	User name
1015 1	
Useringin n _{Cos} a	

1	General	Configure E-mail alarms for the Surveillix IPR.
2	Users	Configures which users will receive E-mails on alarm events
3	Storage Check	Configures when storage checks will be performed and their frequency.
4	Recording Data Check	Configures when recording checks will be performed and their frequency.
5	Alarm Event	Configures when general alarms will be sent.

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 IPR. This window is often used to troubleshoot the IPR, or verify the amount of Hard Drive storage installed. For more information about Disk Management, consult a Windows XP manual.

😴 Disk Management										
Action View		13 1) 😼							
Volume	Layout	Туре	File Syste	m	State	JS	Capacity	Free	e Space	% Fr
BACKUP (C:)	Partition	Basic	FAT32		Heal	thy (S	4.39 GB	1.9	7 GB	44 %
DVR (D:)	Partition	Basic	NTFS		Heal	thy	8.77 GB	8.72	2 GB	99 %
DVR (E:)	Partition	Basic	NTFS		Heal	thy	8.76 GB	7.14	‡ GB	81 %
DVR (F:)	Partition	Basic	NTFS		Heal	thy	8.76 GB	8.70) GB	99 %
DVR (G:)	Partition	Basic	NTFS		Heal	thy	8.76 GB	8.70) GB	99 %
DVR (H:)	Partition	Basic	NTFS		Heal	thy	8.76 GB	8.70) GB	99 %
DVR (I:)	Partition	Basic	NTFS		Heal	thy	8.76 GB	8.70) GB	99 %
DVR (J:)	Partition	Basic	NTFS		Heal	thy	8.77 GB	8.71	l GB	99 %
DVR (K:)	Partition	Basic	NTFS		Heal	thy	8.77 GB	8.7	l GB	99 %
•										•
@Disk 0										
Basic	BACKU DVR (C		DVR (F:	DVR		DVR (H		DVR (J:	DVR	
74.53 GB Online	(4.40 GB) 8.77 GB Healthy Healthy	8.76 GB f Healthy	8.76 GB f Healthy	8.76 Healt		8.76 GB Healthy	8.76 GB I Healthy	8.77 GB I Healthy	8.77 Healt	
- Crimic	[Healthy] [Healthy	Thealury	Thealury	Ineaic	пу	Thealury	Thealury	Inealury	Ineaic	iγ
CDRom 0 CDRom (L:)										
Online										
Primary Partition	n 📕 Extended Partition	Logical D	rive							

Data Management

The Toshiba IPR Software allows users to specify which hard drives are being used to store information. Users can also monitor connected hard drives by total size, free space and percentage free.

Utilizing Data Management

Drive	Туре	Total Size	Free Space	% Free	
	Local Disk	232 GB	222 GB	20%	
DepartmentDa DepartmentDa		0.00 B 0.00 B	0.00 B 0.00 B	10% 10%	
Copartitiento a	Loudi Disk	0.00 0	0.00 0	10%	

- 1. Enter Setup.
- 2. Click the Administrative Button.
- 3. Click the Management Button.
- 4. Enter the Administrator Password and click the OK Button.
- 5. At the HDD Management screen, select the desired video storage drive by checking the DRIVE SELECTION BOX.
- 6. To set the amount of free space to be used for the NVR recording on the selected drive, click the percentage value under "%Free" (default value is 10%). From the drop down list, select the desired percentage. Example: If a drive has 10GB of free-space available and 50% is selected from the drop down list, then the NVR software will use 5GB for video storage.
- 7. To enable the Delete Recording Data feature select the Delete Recording Data Tab and check the enable checkbox. Set the check period and the data expiration period. Example: Set the Check period to 12 to check the video every 12 hours and set the recording data expiration period to 14 days to delete all video older then 2 weeks from the system.

Delete Recorded Data

The Data Management window allows the user to periodically delete recorded data.

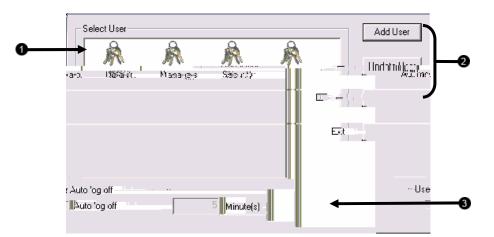
NOTE: While this option is available for configuring, it is not necessary; the IPR Software will automatically overwrite the oldest data in order to record new data.

HDD Management		
HDD Property Delete Recorded Date		
Enable		
Data older than	day(s).	
🖸 Delete Data		
O Hide Data		

1	Enable	Check this box to enable deletion of recorded data.
2	Recording Data older than:	The number of days selected in this field is used to determine the 'expiration date' of data on the IPR.

User Management

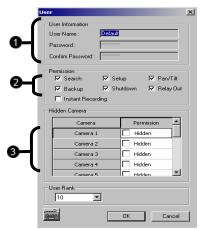
The User Management Console allows the administrator to create, edit, and delete user accounts. Each user account can be assigned different privileges to limit the usage of the IPR system. Users can be given administrator privileges by enabling all rights, however only the true administrator account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



1	Select User	Click to select the appropriate user.
2	Add/Update/Delete User	Allows adding a new user, updating a current user or deleting a current user. NOTE: The Delete User Button immediately deletes the user – use cautiously
3	User Auto Log Off	Enable Auto Log Off after specified amount of minutes of inactivity. This feature affects all users.

Add a New User

- 1. Click Add User to open the User Management Window.
- 2. Enter a user name and password.
- 3. Enable appropriate Permissions.
- 4. Select cameras to hide from the user.



1	User Information	Enter the User Information, and Password.
2	Permission	Specify the features a given user may access on the IPR.
3	Hidden Camera	Hide certain cameras from a user. The user will not be able to view the cameras in Live Mode.

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 IPR 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 and PTZ Control. The IPR Software can only have 1 user accessing Setup or the PTZ controls at any given time. A user with a higher rank will kick another user out and then open Setup or the PTZ controls.

- 1. Enter Setup.
- 2. Click the Administrative Button.
- 3. Click the User Management Button.
- 4. Enter the Administrator password and click OK.
- 5. Select a user from the Select User field and click the Update User Button.
- 6. Set the user's rank using the User Rank drop down menu and press the OK Button to save changes.

Changing the Administrator Password

- 1. Inside Administrative Setup, click the User Management Button. When the login screen appears click the Change Password Button.
- 2. Enter the new password in the prompt that appears and click OK.

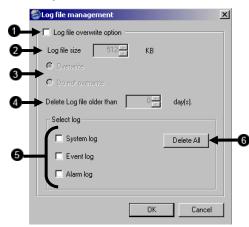
NOTE: The default Administrator login information is:

Username: Administrator

Password: <none>

Log Management / Log Export

The Log Management window provides the user with options such as log overwriting and log deletion. Log Export allows the user to export (save) a log to disk - to assist in troubleshooting the IPR.



1	Log File Overwrite	Check this box to enable the overwriting of logs according to specifications.
2	Log file size	Specify the maximum size of a log.
3	Overwrite / Don't Overwrite	Choose whether or not to overwrite when full.
4	Delete Log Files Older Than:	The IPR will store log files for only the specified number of days.
5	Select Log	Check the type of log(s) to delete
6	Delete All	After checking the log(s) to delete, click this button to proceed with the deletion.

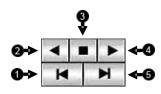
SEARCH

This chapter includes the following information:

- Search Overview
- Play Controls
- Index Search
- Preview Search
- Object Search
- Graphic Search

10	Camera Select	Enable (or disable) selected cameras to perform searches.	
11	POS	Enables search of POS data	
12	Open	Opens video from a saved location on disk.	
13	Print	Outputs a selected image to an attached printer.	
14	Save	Save a selected image as a .JPG file or to save a video clip in an .AVI format.	
15	Graphic	Activates the Graphic Search Option	
16	Index	Activates the Index Search Option	
17	Preview	Activates the Preview Search Option	
18	Object	Activates the Object Search Option.	
19	Screen Division Buttons	View one or more sets of cameras at a time	

Play Controls



1	Back Frame	Moves video back one frame.
2	Rewind	Rewinds video.
3	Stop	Stops video playback
4	Play	Plays video.
5	Forward Frame	Moves video forward one frame.

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 Bright 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

- 1. Using the mouse pointer, point to the area of interest on the image and click the right mouse button.
- 2. Keep clicking the right mouse button 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 SAVED LOCATION

- 1. Previously saved video clips or backup files can be searched for content. Find file by date and time or by name.
- 2. Click the Open Button to search for the saved file
- 3. Select a file from the list of saved clips and backup files or search by start hour.
- 4. 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 the Time Sync Button. The video will now playback in real time.

CLEAN IMAGE

The IPR unit 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 IPR unit allows the user to remove this by clicking the Clean Image Button.

DAYLIGHT SAVINGS TIME

The IPR automatically adjusts for Daylight Savings 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 IPR actually records both hours and allows the user to select which hour to play if the need arises.

To access the 'lost hour':

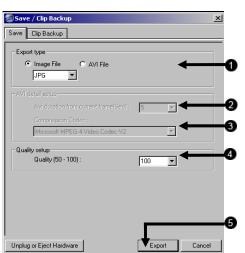
		Oct	ober 2	2006		
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
-29	30	31				
	•		Today	,	,	**
₽ D	aylight	savi	ng	06 : 1	15	+
	OK			C	ancel	

- 1. From the Search screen, select the Calendar Button.
- 2. Select the date when Daylight Savings time 'lost' an hour. An option appears which says Daylight Saving.
- 3. To play back the 'lost hour', select the Daylight Savings option.
- 4. Click OK to confirm the date and begin playing the video using standard search features.

SAVE TO JPG OR AVI

The IPR unit can export single images in the Image file formats 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	Export Type	Export a single image or .AVI video clip. (The user may choose the format for the image, different formats provide different file-sizes, quality and compatibility)	
2	AVI Duration	Enter duration (in seconds) for recording the .AVI file. Although 100 is the longest displayed, a manual time may be entered.	
3	Compression Codec	Choose the codec with which to encode the .AVI file. Each codec provides different levels of quality, compatibility and file-size.	
4	Image Quality	It may be necessary to reduce the overall size of an .AVI file; for example, to email to someoneAVI file sizes can be reduced by reducing the image quality. However, reducing the image quality causes the .AVI video to appear more pixilated. When size is not an issue, setting quality to 100 is highly recommended.	
5	Export	Begins the saving process. (Cancel Button exits without exporting.)	

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	Drive	Selects the drives data will be saved on.
2	Backup Start/End	Sets the time that the Clip Backup will start and end.
3	Include Viewer	Saves a copy of the Backup Viewer software with the exported video.
4	Add Memo	Displays a Clip Information Menu for entering information to be stored and displayed with the backup.
5	Channel	Selects the camera channels that will be backed up.

PRINTING AN IMAGE

1. Using the Search screen locate a frame to print. Double-click,qN:-qjyam':K',-Nybm':K',-NyimcD:N-KKjguro&@cADIMRVyqmE<rk/jkghily@mjiNyittikyDenkyk/hylkych

PERFORMING A BASIC SEARCH

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

- 1. Select a date using the calendar button in the Date Box.
- 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.

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 criterion such as Sensor, Motion and Instant Record events

🔿 All event 🔶

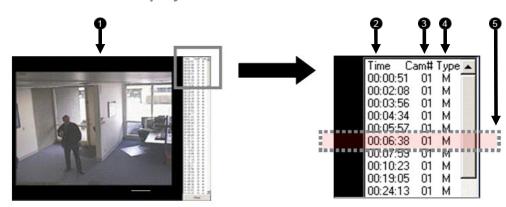
Cancel

ΟK

			1
1	All Camera	This option selects all cameras.	Index Search Option
2	Multiple camera search	Select one or more cameras to search.	Select Camera All Camera
3	Select Time	The default search time is 24 Hours. If this option is selected, a Start Time and End Time must be entered.	Cam2 Cam3 Cam4
4	Start Time	Specifies the Start Time for the Index Search.	Start Time 8:05:51 AM
5	End Time	Specifies the End Time for the Index search.	End Time 8:05:50 AM
6	Sort Option	Searches by the selected event: Sensor, Motion Detection or Instant Record.	Select sort option
7	All Event	Searches on all events (sensor, motion, instant recording) for the selected camera(s).	C Instant Record

Performing an Index Search

- 1. Select the Index Search Button. The Index Search Option Box will open.
- 2. Select a single camera or check the All Cameras option.
- 3. Select an event to search (sensor, motion, instant record) or select the All Event option.
- 4. 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. If no results are found, "NO IMAGE FOUND" will appear in the column.
- 5. Once the results are displayed, double-click on any one to search through them.
- 6. Once the desired image is found, apply it to the Main Search by selecting the Close Button at the bottom of the results column.



Index Search Results Display

1	Image Display Area	Displays search result images
2	Time	Time of the search result.
3	Camera Number	Camera number of the search result.
4	Туре	Displays event type: M – Motion
		S – Sensor
		IR – Instant Record
5	Search Results	Displays the results of the search. Each line represents a segment of video.

PREVIEW SEARCH

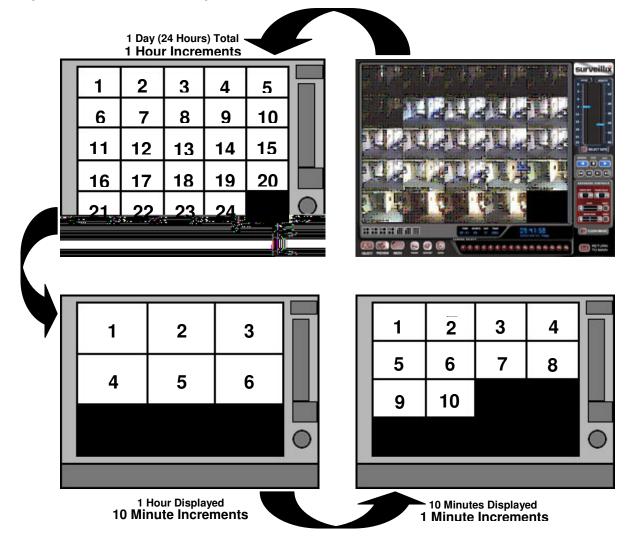
Preview Search can be used in a number of circumstances to quickly find an exact moment where an event, such as a theft, occurred. The Preview Search gives a 24 Hour visual overview of a single camera by separating a 24 hour period (1 day) into 24 images, one image for each hour of the day. The search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

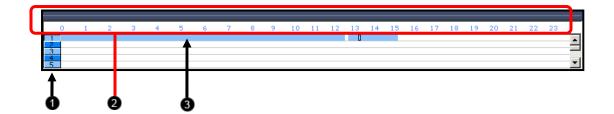


Performing a Preview Search

- 1. Select a single camera by either turning off all cameras but one or double-clicking a displayed image.
- 2. Select the Preview Search Button. 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, deselect the Preview Search Button.

GRAPHIC SEARCH

The Graphic Search option displays video in graph format.



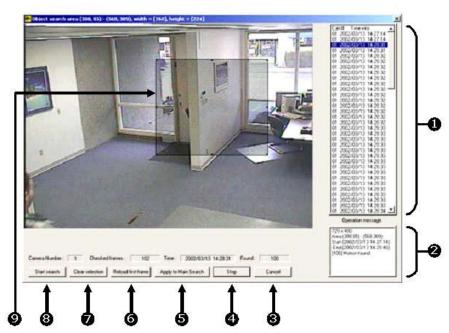
1	Camera	Displays the cameras in a linear format; scroll down using the scroll bar on the right
2	Hours	The hours 0-23 are listed (24 hours).
3	Recording Block	Displays blocks of time with recorded video in blue. No recording will be displayed in white

Performing a Graphic Search

- 1. Select the Graphic Search Button
- 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 recorded data

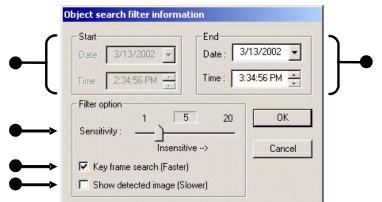
OBJECT SEARCH

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.



1	Search Results	Search results are displayed in this column and listed by date and time. When the search is complete, results can be viewed by double-clicking on one of the results or by using the \uparrow and \checkmark arrow keys on the keyboard.	
2	Search Information	Displays brief information on the overall search.	
3	Cancel	Exits the Object Search.	
4	Stop	Stops the current search.	
5	Apply to Main Search	Exits the Object Search but takes the selected result (currently displayed image) and displays it inside the Main Search. From that point, play controls can be used.	
6	Reload First Frame	Reloads the initial key frame image (the image used to start the search).	
7	Clear Selection	Clears the current motion region box from the key frame image.	
8	Start Search	Begins the search.	
9	Motion Region Box	The user-defined area of the key frame image. Create the motion region box by clicking inside the image and dragging the mouse. The motion region box can be resized by pulling on the small square boxes located on the outer perimeter of the box.	

Object Search Filter Information



1	Start	Displays the time and date of the initial key frame.
2	Sensitivity	Used to control sensitivity of the motion to be detected. Poor lighting conditions can often be interpreted as motion; the sensitivity setting can compensate for this.
3	Key Frame Search	Searches by key frame.
4	Show Detected Image	Displays the results as they are found. Using this option slows the search process slightly and therefore may not be ideal when searching large periods of time.
5	End	Used to designate an end time. (Default is 1 hour.)

Performing an Object Search

- 1. Perform a Basic Search
- 2. Select a single camera, either by turning off all cameras but one or by double-clicking a displayed image.
- 3. Select the Object Search Button.
- 4. Create a motion region box on the image by clicking inside the image and holding down the left mouse button while dragging the pointer. When the desired shape is created, let go of the mouse button. Only one motion region box can be created. To delete the motion region box, click the Clear Selection Button.
- 5. Click the Start Search Button. The Object Filter Search information should open.
- 6. Select an end time. One hour is the default setting.
- 7. Adjust the sensitivity if necessary.
- 8. Click OK to begin the search. When results are found, they will be displayed in the column to the right. If no results are found, the search will end and "No Images Found" will display in the column. Click Stop to stop a search.
- 9. When the search has ended, double-click on one of the results. Use the up and down arrows to scroll through the results quickly.
- 10. When the desired image is found, select Apply to Main Search to use the play controls.

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 IPR software allow for powerful control over the network devices. 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.

SETTING UP A PTZ NETWORK DEVICE

Setting up a PTZ enabled Network Device is simple. The NVR Software comes equipped with PTZ control features which need simply be enabled to control the PTZ functions of the Network Device.

Enable the PTZ Settings

- 1. Select the Setup Button from the Main Display Menu
- 2. Select Camera Setup from the Setup Menu
- 3. Select the camera channel from the drop down menu to enable PTZ functionality
- 4. Select the Enable Network Device PTZ Box

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 network device supports this.

Creating a Preset

- 1. From the Main Display Screen select the PTZ Button to open the graphical controller.
- 2. Select the appropriate network device on the Main Display Screen.
- 3. Move the selected network device to the desired position using the Pan/Tilt/Zoom/Focus controls.
- 4. Assign a number by clicking a Preset (1-10) in the advanced menu on the graphical controller Buttons and click the Set Button to save.

Viewing a Preset

- 1. From the Main Display Screen select the PTZ network device by clicking on it.
- 2. Using the keyboard, click the number keys corresponding with the Preset Positions. The network device will move to the saved preset position.

ACCESSING PTZ MENUS

1	Camera Menu	Menu opens the PTZ Camera Menu.
2	Select	This option selects an item on the Onscreen Menu.
3	Close	Close closes the Onscreen Menu
4	Up / Down	The Up and Down buttons on the PTZ controller move through the PTZ Menu options.
5	Left / Right	The Left and Right buttons on the PTZ controller move through the PTZ Menu options and/or highlight options.

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 IPR 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

CONTROLLING A PTZ NETWORK DEVICE

The Surveillix IPRs provide control for a PAN/TILT 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 main screen.

The second method is to use the mouse to control the camera directly from the live video display.

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Using the Graphical PTZ Controller

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

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MOVE

SET

DELETE

Using the On-Screen Compass

- 1. Click the PTZ Button on the main screen.
- 2. Control the PTZ by dragging the mouse on the screen in the desired direction. 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.



BACKING UP VIDEO DATA

This chapter includes the following information:

- Overview
- Saving Video to a DVD-R
- Saving Video from a single camera
- Scheduling Regular Video Backup

BACKUP OVERVIEW

The IPR 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 IPR unit comes standard equipped with a DVD±RW drive, USB port, and Network Adapter.

The IPR is capable of performing a backup to multiple 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 IPR backs up video data using a proprietary compression format that can only be read by the IPR Backup Program. This ensures the integrity of the data.

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

NERO® EXPRESS

The IPR unit uses Windows® XP® Embedded running Nero® Express 6.0 to write data to the DVD-R Drive. This solution allows the IPR software to read and write data to the DVD-R Drive without the requirement of formatting the disk first.



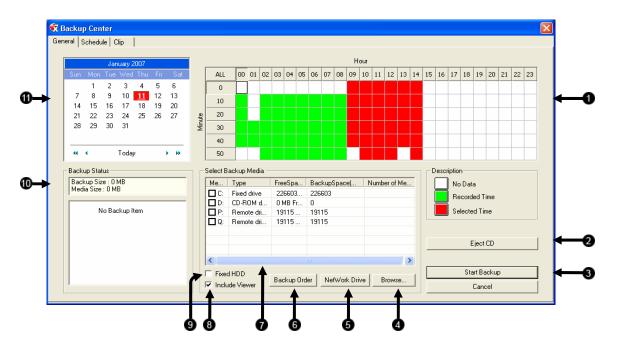
CAUTION: Although many features are available within Nero, it is highly recommended that you do NOT use any features other than those necessary for the standard backup of video data as outlined in this section, loss of information or software instability may result.

BACKUP CENTER 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-R drive, Network Storage Locations, and External Hard Drives.

General Backup Screen

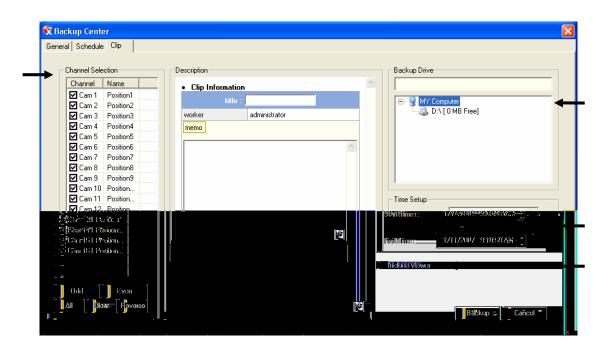
The General Backup Screen is used for performing bulk backup of video recorded by all cameras for a selected period or periods of time to a specified storage location.



1	Hour / Minutes	Displays recording data 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.
2	Eject CD	Ejects the CD from the System.
3	Start Backup	Initiates the backup process.
4	Browse	Opens a menu for adding backup drives or folders not displayed in the Select Backup Media Menu.
5	Network Drive	Allows browsing to and selecting of a remote network location for backing up video to.
6	Backup Order	Allows setting of the order in which drives are used for backing up data to.
7	Select Backup Media	Allows selection of drives and folders to back up video to.
8	Include Viewer	When checked, copies the Backup Viewer application onto the CD or DVD being used for backup and sets the disc to auto run the viewer.
9	Fixed HDD	When checked, displays all hard drives on the system.
10	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.
11	Calendar	Select a date to back up video from; blue highlights indicate dates with recorded video in them.

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



1	Description	Enter information to be stored and displayed with the backup.	
2	Backup Drives	Selects the drive to backup video to.	
3	Time Setup	Sets the start time and stop time of the video being backed up	
4	Include Viewer	When checked, copies the Backup Viewer application onto the DVD used for backup and sets the disk to auto run the viewer	
5	Channel Selection	Sets individual cameras for backup. With buttons for selecting odd, even, all, or reversing the current camera selection.	

PERFORMING A GENERAL BACKUP

- 1. Click the Backup Button on the Main Display Screen.
- 2. Select the date or dates to back up video from using the calendar. Dates highlighted in blue contain recorded data.
- 3. Select the blocks of time to back up using the Hour/Minute Menu. Blocks of time with recorded video are highlighted in green. Blocks of time selected for backup are highlighted in red.
- 4. Select the drive or drives to save the backup video to using the Select Backup Media Menu, Network Drive Button, or Browse Button. When selecting the DVD-R Drive you must specify the number of DVDs to use for backup.
- 5. Set the backup order using the Backup Order Button.
- 6. Select the Include Viewer Checkbox to include the Backup Viewer Application.
- 7. Click the Start Backup Button to begin the backup process. A progress bar will be displayed in the lower right corner of the main screen.

PERFORMING A CLIP BACKUP

- 1. Click the Backup Button on the Main Display Screen.
- 2. Click the Clip Backup Tab at the top of the Backup Center Screen.
- 3. Set the Backup Time and End Time of the video to backup in the Time Setup Box.
- 4. Select the Cameras to back up in the Channel Selection Box.
- 5. Select the Backup Drive to save the backup video to.
- 6. Check the Include Viewer Checkbox to include the Backup Viewer Application.
- 7. Enter pertinent clip information into the Clip Information section in the Description Box.
- 8. Click the Start Backup Button to begin the backup process. A progress bar will be displayed in the lower right corner of the main screen.

PERFORMING A SCHEDULED BACKUP

- 1. Click the Backup Button on the Main Display Screen.
- 2. Click the Schedule Tab at the top of the Backup Center Screen.
- 3. Set the Backup Time to perform the backup.
- 4. Set the Repeat Backup Time to specify the number of hours between backup procedures (between 1 and 24 hours).
- 5. 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"
- 6. Check the Overwrite on Disk Full checkbox to overwrite previous scheduled backups when the disk becomes full.
- 7. Click the Save Backup Setting Button to save the current backup setting and return to the Main Display Screen.

Specifying Scheduled Backup Drives

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

- 1. Exit and restart in Windows mode.
- 2. Double click the My Computer icon on the IPRs desktop. A file menu will be displayed.
- 3. Right click on the drive to specify as a backup drive for Scheduled Backup and select the Rename option. 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 besides 'Backup'.
- 4. Restart the application and return to the Schedule Tab in the Backup Center Window.

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LAN / ISDN / PSTN CONNECTIONS

This chapter includes the following information:

- Overview
- Configuring TCP/IP Settings
- Connecting to a LAN

LAN OVERVIEW

The IPR unit can easily be 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.

Examples of LAN connections include Ethernet, Token Ring, cable modems, DSL, FDDI, IP over ATM, IrDA (Infrared), wireless, and ATM-emulated LANs. Emulated LANs are based on virtual adapter drivers such as the LAN Emulation Protocol.

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 IPR 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 IPR unit to a network can be extremely complex (depending on the network), this Surveillix IPR manual will cover only the basics. It is suggested that the administrator consult a 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 IPR unit can create and edit all Network settings available on Windows XP Embedded. The IPR unit comes equipped with a 100/1000 Gigabit NIC. This card uses a standard RJ-45 connector.

The IPR unit comes preconfigured with an IP Address of [172.25.2.1] and a subnet mask of [255.255.0.0]. These IP settings will work for many users. If these IP settings are sufficient then re-configuring TCP/IP will not be necessary.

Configuring TCP/IP Settings

- 1. Exit and restart in Windows mode.
- 2. Right-click on the My Network Places icon located on the desktop and select Properties. The Network Connections window opens.
- 3. Right-click Local Area Connections and select Properties. The Local Area Connection Properties window opens.
- 4. Select the Internet Protocol (TCP/IP) by clicking on it once. Once it is highlighted, select the Properties Button. The Internet Protocol (TCP/IP) Properties window opens.
- 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 IPR unit 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 close the Internet Protocol (TCP/IP) Properties window by clicking the OK Button.
- 8. Close the Local Area Connection Properties window by clicking the OK Button.
- 9. It may be required to restart Windows for the changes to take effect. Restart windows by selecting START on the desktop and selecting Restart.

Connecting the IPR to a LAN

Using a standard RJ-45 cable, plug one end into a Hub (or Network Jack ultimately connected to a hub) and the other end into the IPR unit.

WEB VIEWER

This chapter includes the following information:

- Overview
- Configuring the Web Viewer

WEB VIEWER OVERVIEW

The IPR unit allows you to access video using Microsoft® Internet Explorer® Browser 6

Highlights:

View Live Video from most computers

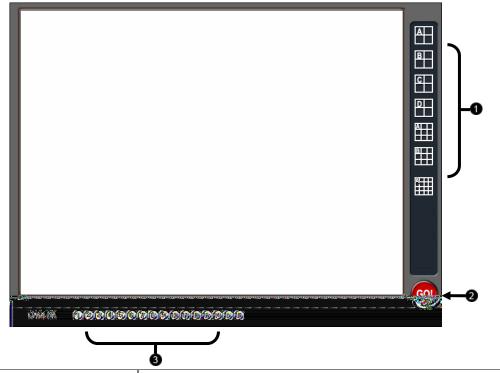
Username and Password protected

Easy to use graphical interface

Basics:

75 users can access the Web IPR simultaneously. The Web IPR 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 IPR 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.



1	Screen Division Buttons	Allow you to view one or more sets of cameras at a time. They are organized in several different groups such as $1x1$, $4x4$, and $8x8$.
2	GO!	Activates the commands
3	Camera Buttons	Enable or disable selected cameras for use when searching.

Configuring the Server for Remote Connection

- 1. Enter Setup on the IPR unit.
- 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 IPR 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 IPR server is now ready to receive incoming connections.

Connecting to the IPR Using Web Viewer

- 1. Open Microsoft® Internet Explorer® 6
- 2. Enter the IP address of the IPR 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 IPR to the trusted sites list inside Internet Explorer[®] settings. Contact the System administrator for additional help with adjusting Internet Explorer[®] settings.

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

Closing the Web Viewer

1. 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 IPR unit. 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 IPR unit. 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 IPR

To enable the Emergency Agent on the IPR 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 checkboxes.
- 3. Click the Network Setup Button and make sure that Disable Remote Control is not checked.
- 4. 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.
- 5. Click the Schedule Setup Button. Enter the IP Address of the computer running the Emergency agent software.
- 6. Click the box next to the IP Address to enable it.
- 7. Select the Sensor Radio Button.
- 8. Create a schedule for the appropriate sensor
- 9. Click Apply.

Emergency IP:	IP	Use	IP	
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REMOTE SOFTWARE OVERVIEW

The IPR unit 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.

Highlights:

Search archived video

View live video

Export images and video clips

Control relay outputs

Setup administration

Basics:

The IPR can have up to 5 simultaneous remote connections. Each user can perform functions on the IPR unit 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 IPR 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 IPR itself. The appearance of it matches the IPR 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 Client Minimum Requirements

Intel® Pentium® III 750 or equivalent 32MB System Memory DirectX 9 or higher Compatible video card (ATI Preferable) Internet or LAN Connection (56K, DSL, Cable Modem, T1, ISDN, etc.) TCP/IP installed Microsoft® Windows® 2000 or XP Operating System 1024 x 768 display resolution 16 Bit color depth or better

Remote Client Recommended Requirements

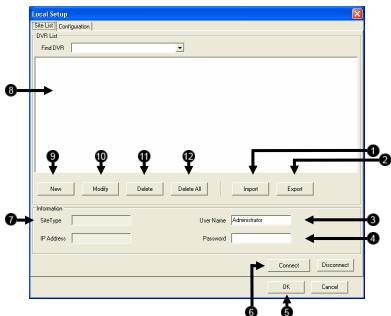
Intel® Pentium® IV 2.4+ or equivalent 512MB System Memory DirectX 9 or higher Compatible video card (ATI Preferable) Internet or LAN Connection (DSL, Cable Modem, T1, ISDN, etc.) TCP/IP installed Microsoft® Windows® 2000 or XP Operating System 1024 x 768 display resolution 32 Bit color depth or better

Remote Software Setup

Installing Remote Software

- 1. On the client computer, insert the Surveillix Software DVD into the DVD-ROM. The DVD 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

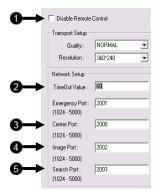


1	Import	Import previously saved configurations
2	Export	Export selected configurations
3	User Name	Enter the login username.
4	Password	Enter the login password.
5	OK Button	Click to exit window without connecting
6	Connect	Connects the Surveillix Remote Client to the Server.
7	Information	Displays the Site Type and IP Address of selected DVR
8	Site	Displays a list of pre-configured sites.
9	New	Creates a new site to connect to.
10	Modify	Used to modify settings of a site selected from the list.
11	Delete	Deletes the selected site
12	Delete All	Deletes all listed sites.

- 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 unit 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 IPR

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



1	Disable Remote	Enables/Disables acceptance of remote connections by the IPR server.
2	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.
3	Center Port	Used by the IPR to transfer the connection data.
4	Image Port	Used by the IPR to transfer the image data.
5	Search Port	Used by the IPR to transfer the search data

Configuring the Server for Remote Connection

- 1. Enter Setup on the IPR unit.
- 2. Click the Network Setup Button to open the Network Menu.
- 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 IPR 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 IPR server is now ready to receive incoming connections.

Access Remote Connection

- 1. Open the Remote Software
- 2. Click on the icon of the server as defined previously
- 3. Enter the user name and password of an authorized remote user as defined in Network > Client Setup > User Account on the E-Series system.

NOTE: User Name and Password are both case sensitive

4. Click the Connect Button

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 IPR unit 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 DVD into the DVD-ROM. (Do not install on the IPR unit.)
- 2. Select the Digital Verifier option to begin installation. When the Welcome screen appears, click Next.
- 3. 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 > Surveilliexe > Digital Verifier > Digital Signature Verifier.
- 2. Click the Browse Button to load the .JPG image.
- 3. Enter the Site Code of the IPR unit that the image was originally extracted from. (The Site Code is specified in the Site Information Setup Menu)
- 4. Click the Verify Button to continue or Close to close the window without verifying.



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



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



BACKUP VIEWER OVERVIEW

The Backup Viewer allows you to play back the exported video in its proprietary format. Video saved in this format is extremely difficult to tamper with and therefore is the ideal solution when law enforcement and the legal department are involved. This video cannot be read by any other viewer.

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

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



Installing Backup Viewer

- 1. Insert the Software Installation DVD into the DVD-ROM. (Do not install on the IPR unit.)
- 2. 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.
- 4. 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

- 5. 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 uncheck 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 the Open Button. The Total Backup Search Window will open.
- 3. For DVD-ROM data, select the appropriate DVD-ROM drive letter from the Backup Media Box.

For hard drive data, select either an attached hard drive from the Backup Media Box or select the Open Folder lcon to browse to a specific directory.

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

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

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Choose Start Hour	
OK Cancel	