

RAS (Remote Administration System)

Digital Video Recorder Software

User Guide



RAS User Guide

Revisions

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About This Document

This document introduces the Remote Administration System (RAS) software designed for the digital video recorder (DVR) and describes the procedures for operating and maintaining the software.

Overview of Contents

This document contains the following chapters and appendixes:

- *Chapter 1, Overview*, describes the Remote Administration System and lists its features.
- *Chapter 2, Installation and Operation*, provides the installation and operation procedures necessary for RAS use.
- *Chapter 3, RAS Admin*, covers the functions and features of the RAS Admin program.
- *Chapter 4, RAS Watch*, describes the functions and features of the RAS Watch program.
- *Chapter 5, RAS Search*, describes the functions and features of the RAS Search program.
- *Appendix A, MiniBank Self Player*, covers the functions and features of the MiniBank Self Player program.

Related Documents

For more information about topics that are relevant to the subject of this manual, see the documents listed below.

Document title	Part number
<i>HRHD4+, HRHD9+, HRHD16+ Series DVR User Guide</i>	<i>900.0258</i>
<i>HRHD410 DVR User Guide</i>	<i>900.0315</i>
<i>HRHD Single Channel DVR User Guide</i>	<i>900.0316</i>

Overview

Remote Administration System (RAS) software consists of the following programs:

- **RAS Admin.** The main administration program
- **RAS Watch.** A remote surveillance program
- **RAS Search.** A remote search program

After a successful installation, each program may be selected from the Windows task bar or the 3-button program Graphical User Interface (GUI).

Features

The RAS program is the integrated software that controls system management, video monitoring, and image playback of multiple remotely connected Digital Video Recorders (DVRs). RAS offers the following features:

- Checking and reporting on the DVR status at a remote site
- Notification of event detection from remote sites
- Remote monitoring of live camera images
- Searching timelapse and event recorded images
- Remotely upgrading the software and programming the system

Before You Begin

Package Contents

Please read this guide carefully before you install the RAS software. Keep this guide for future reference.

Unpack everything. Check that the items you received match those listed on the order form and packing slip. The RAS packing box should include:

- One User Guide
- Installation disks

System Requirements

Playing back digital video puts a high demand on your computer system. To use the RAS video monitoring and playback functions, your personal computer (PC) must meet the minimum system requirements listed below:

- Operating System: Microsoft® Windows® 98, Microsoft Windows ME, Microsoft Windows 2000, or Microsoft Windows XP
- CPU: Intel Pentium II (Celeron) 266 MHz or higher
- RAM: 64 MB or higher
- VGA: AGP, Video RAM 8 MB or higher (1024 x 768, 24 bpp or higher)

Installation and Operation

Installation Procedures

Caution If an older version of RAS has already been installed on your computer, you should uninstall the older version before installing the new one.

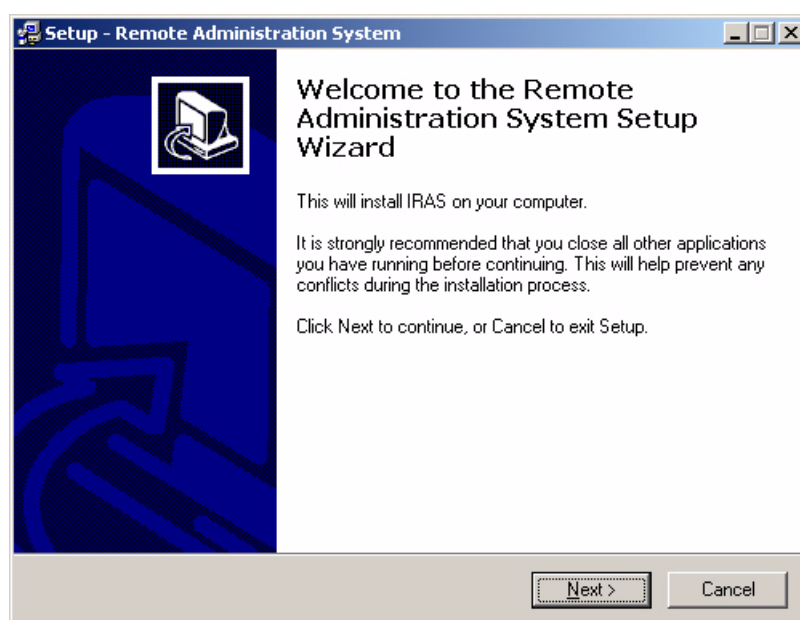
Preliminary Procedures

1. Under the Start menu in Windows, go to **Settings** and then to **Control Panel**.
2. Double click **Power Options** to open the **Management Properties** dialog box.
3. Select **Never** for the **Turn off monitor** and **Turn off hard disks** fields.

Install the Software

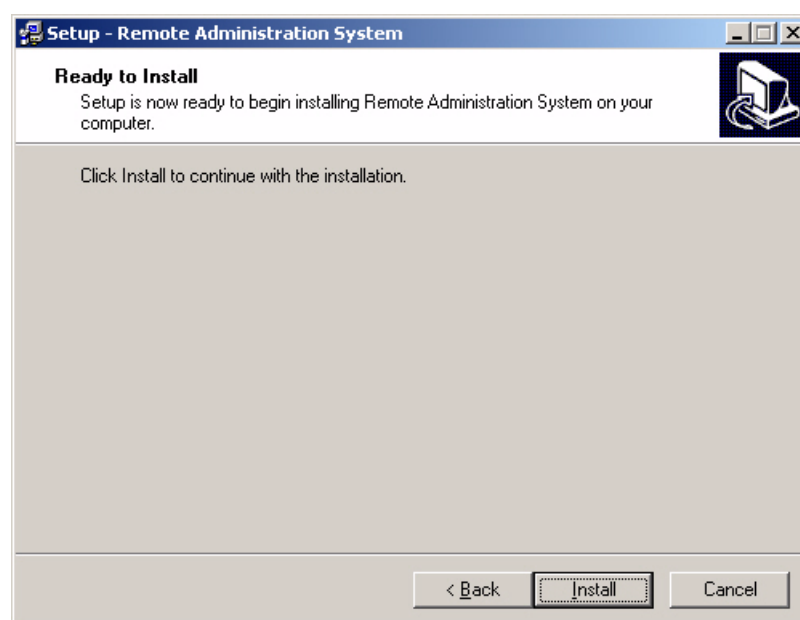
1. Insert the first installation disk.
2. Run the **Setup.exe** file.
3. When *Figure 2-1* appears, click **Next**.

Figure 2-1 Welcome to Installation Wizard Screen



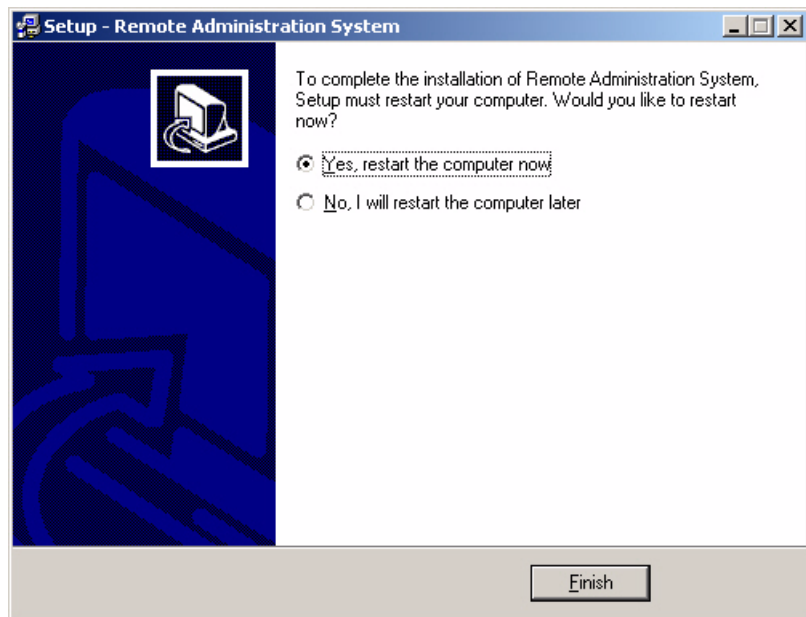
4. Click **Install**.

Figure 2-2 Start Installation Screen



5. Follow the on-screen instructions to insert the next installation disks as required.
6. Make certain **Yes, restart the computer now** is selected, and then click **Finish** to reboot the system. This completes the installation.

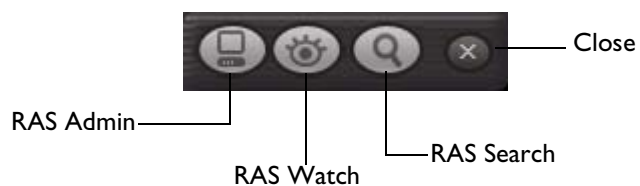
Figure 2-3 Finish Installation Screen



Operating Procedures

1. After installing the RAS software, you will find the **RAS Server** icon  on your PC desktop.
2. Run the RAS program by double clicking the icon. The main administration program—RAS Admin—will appear.
3. To activate one of the other programs using the 3-button GUI, click the right mouse button when the cursor is on top of the main displayed GUI. The 3-button toolbox (*Figure 2-4*) is shown.

Figure 2-4 RAS 3-Button Toolbox



Each icon represents one of the three RAS programs: **RAS Admin**, **RAS Watch**, and **RAS Search**, as shown to the left.

4. To exit and close the RAS program, click the **Close** button.

RAS Admin

Description

RAS Admin, the main administration software of RAS, provides reporting functions including:

- A live system status report and search
- An event log search
- A system log search and
- Remote programming of the DVR.

The Graphical User Interface (GUI) of the RAS Admin is shown in *Figure 3-1* and the description of each control area follows.

Figure 3-1 RAS Admin User Interface

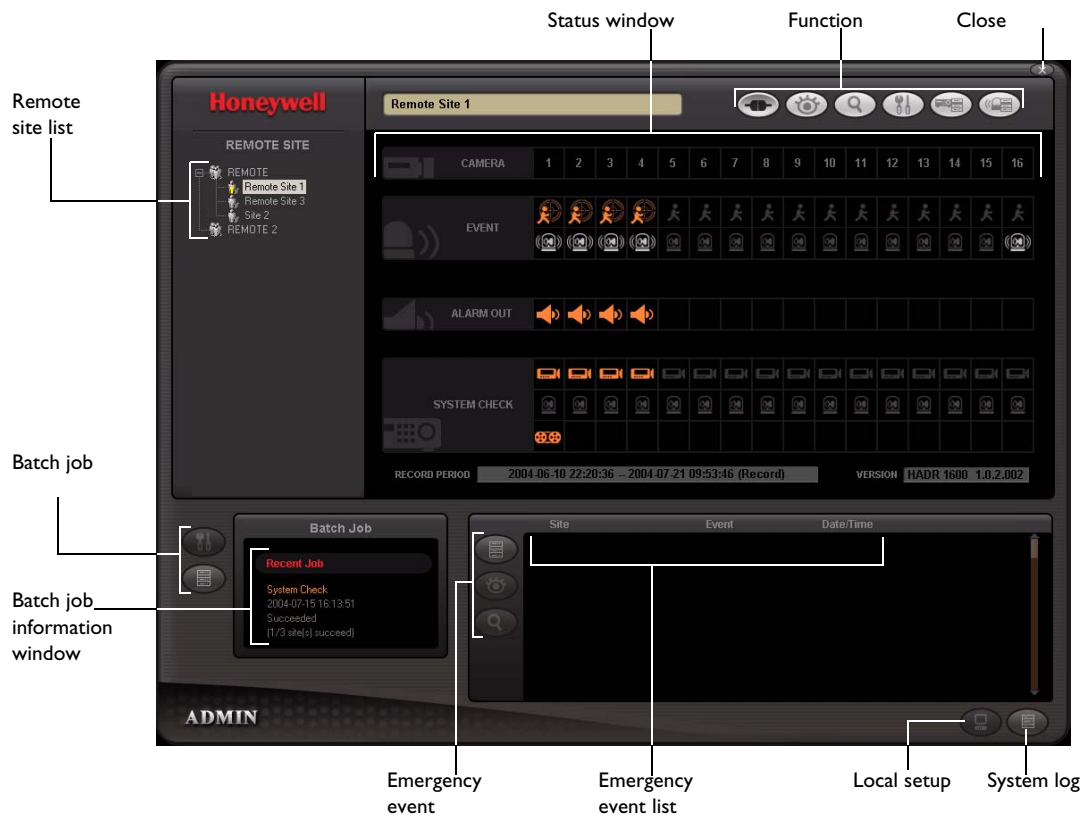


Table 3-1 RAS Admin Controls and Areas

RAS Admin	Function
Remote Site List	Displays a list of remote sites registered in RAS Admin.
	Quit closes the RAS program.
Function buttons	
	Connect initiates a connection to the selected site in the remote site list.
	Watch initiates the RAS Watch program. If a site in the remote site list is selected, the RAS Watch program will open already connected.
	Search initiates the RAS Search program. If a site in the remote site list is selected, the RAS Search program will open already connected.
	Remote Setup allows remote changes to be made to the programming of a connected DVR.
	Remote System Log displays the system log information of a remotely connected DVR.

Table 3-1 RAS Admin Controls and Areas

RAS Admin (cont'd)	Function
	Remote Event Log displays the event log information of a remotely connected DVR.
Status Window	Displays the status of the remote DVR currently connected (event detection, alarm out, system check, record period, and version information).
Batch Job buttons	
	Batch Job Setup opens the batch job setup screen for multiple remote sites.
	Batch Job Log displays the RAS batch job log information.
Batch Job Information Window	Displays the current batch job information.
Emergency Event buttons	
	Emergency Event Log displays the log information of emergency events.
	Watch opens the RAS Watch program for the selected emergency event.
	Search opens the RAS Search program for the selected emergency event.
Emergency Event List	Displays the event(s) that were called back from individual remote site (LAN connection only). The description of event icons and their meanings are included in Table 3-2 .
	Local Setup opens the Setup—Admin dialog box which controls programming of the RAS Admin.
	System Log displays the system log.

Emergency Event List

The Emergency Event list displays event information from a remotely connected DVR on RAS when the recorders event action has notification enabled (see your DVR User Guide for information on setting up event actions). RAS must be set for callback (see [Local Setup Button](#) on page 22) for the DVR to be able to send event information to the RAS server.

Figure 3-2 Emergency Event List

Site	Event	Date/Time
Remote site1		2004-07-07 15:53:30
Remote site1		2004-07-07 15:53:30
Remote site1		2004-07-07 15:53:30
Remote site1		2004-07-07 15:53:30
Remote site1		2004-07-07 15:53:30
Remote site1		2004-07-07 15:53:30
Remote site1		2004-07-07 15:53:30
Remote site1		2004-07-07 15:53:30
Remote site1		2004-07-07 15:53:30

Table 3-2 Emergency Event Icon Descriptions

Icon	Meaning
	Normal Event
	Emergency Event (preset to be notified at the remote DVR)
	Motion Detection
	Video Loss
	Alarm In
	Text In
	Alarm In Bad
	Recorder Bad
	Disk S.M.A.R.T.
	Disk Bad
	Disk Full
	Disk Temperature

Note Event notification for **Text In** may not be supported, depending on the specifications of the remotely connected DVR.

Functions of the RAS Admin

Function Buttons



Connect Button

Select the site you want to connect to from the **Remote Site List**, and then click **Connect** to initiate a connection (if required) and to display the system status of the connected system. If you want to connect to another site, disconnect from the currently connected system by re-clicking **Connect**.



Watch/Search Buttons

Initiates the **RAS Watch** or **RAS Search** programs. Select the site from the **Remote Site List**, and then click the **Watch** or **Search** buttons to activate the **RAS Watch** or **RAS Search** programs. The site you select will be connected directly.

Note Clicking the **Watch** or **Search** buttons when no site is selected in the **Remote Site List** only activates the program without connecting to a site.



DVR Setup Button

Allows remote changes to be made to the programming of a connected DVR.

Note Refer to the manual for each applicable remote DVR for the details of system programming and setup.

To set up the Motion-Detecting Zone on your remotely connected DVR:

1. Press **DVR Setup**.
2. Click **Device** at the top of the setup screen.
3. Click **Motion Detector**.

- 4. Click the **Zone** field for the selected camera.
- 5. *Figure 3-3*, the **Motion-Detecting Zone Setup** dialog box displays. Select the zones on the screen that will detect motion. See *Table 3-3* for information on selecting and changing the Motion-detecting zone.

Figure 3-3 Motion-Detecting Zone Setup Screen

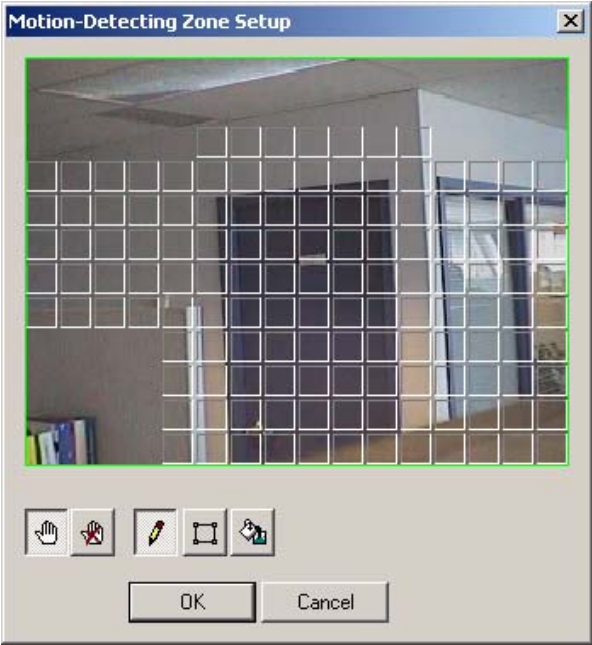


Table 3-3 Motion-Detecting Zone Field Descriptions

Icon	Function
	Activates the target area for the motion-detecting zone.
	Releases the target area from the motion-detecting zone.
	Select the block(s) for the motion-detecting zone by dragging the mouse.
	Select the rectangle-shaped blocks for the motion-detecting zone.
	Select all blocks for the motion-detecting zone.

To select zones for motion detection:

- 1. Select the mode button between activating and releasing the target area to set up the motion-detecting zone.
- 2. Select the area to set or release using one of the three selection tools.

Caution When using a dial-up modem for remote connection, the current connection to the **RAS Watch** will be disconnected if you initiate the motion-detecting zone setup. After setting up the motion detection, connect to the target site again.



Remote System Log Button

Displays the system log information of a remotely connected DVR (see [Figure 3-4](#)). If you set a time period of interest and click **Find**, the system log entries within that time period are displayed in the list. A total of 100 results can be displayed in the list at one time. To scroll through the list, click **Next** ().

Figure 3-4 Remote System Log Screen

Log - Remote Site 1

System Log | Event Log

From: ☒ First 2004-07-15 15:33:08

To: ☒ Last 2004-07-15 15:33:08 **Find**

No.	Event	Date/Time
100	Logout (Watch:Admin)	2004-07-15 16:25:47
099	Login (Watch:Admin)	2004-07-15 16:21:00
098	Setup Begin (Remote:Admin)	2004-07-15 16:20:53
097	Panic End	2004-07-15 16:18:11
096	Panic Start	2004-07-15 16:17:53
095	Logout (Search:Admin)	2004-07-15 14:28:44
094	Login (Search:Admin)	2004-07-15 14:21:51
093	Callback Fail	2004-07-15 14:21:42
092	Setup End (Remote:Admin)	2004-07-15 14:21:29
091	Setup Begin (Remote:Admin)	2004-07-15 14:21:22
090	Login (Admin:Admin)	2004-07-15 14:21:16
089	Logout (Admin:Admin)	2004-07-15 14:21:02
088	Login (Admin:Admin)	2004-07-15 14:20:30
087	Login (Watch:Admin)	2004-07-15 14:20:30
086	System started	2004-07-15 14:20:29
085	Record On	2004-07-15 14:20:29
084	Shutdown	2004-07-15 14:20:17
083	System Time Changed	2004-07-15 15:20:50
082	Setup End (Remote:Admin)	2004-07-15 15:20:48
081	Setup Begin (Remote:Admin)	2004-07-15 15:20:15
080	Logout (Search:Admin)	2004-07-15 15:19:22

Print... **Save...** < < 1 of 8 > >

Close

- **From:** If this box is checked, the search begins from the first remote system log entry. If you want to search a specific starting date/time, remove the check mark and then set the desired date/time.
- **To:** If this box is checked, the search continues until the last remote system log entry. If you want to search a specific ending date/time, remove the check mark and then set the desired date/time.
- **Find:** Displays remote system log entries within the set time period.

Table 3-4 System Log Icon Descriptions

Icon	Function
	First: Moves to the first page of the found log entries.
	Previous: Moves to the previous page.
	Next: Moves to the next page.
	Last: Moves to the last page of the found log entries.

- **Save:** Saves the log information to a text file.
- **Print:** Prints the log information to a connected printer.
- **Close:** Closes the dialog box.



Remote Event Log Button

Displays the event log information of a remotely connected DVR. If you set a time period of interest and click **Find**, the event log entries within that time period are displayed in the list. A total of 100 results can be displayed in the list at one time. To scroll through the list, click **Next** ().

Figure 3-5 Remote Event Log Screen

The screenshot shows a window titled "Log - Remote Site 1" with two tabs: "System Log" and "Event Log". The "Event Log" tab is active. Below the tabs is a search section with two rows of filters. The first row is labeled "From:" and has a checked "First" checkbox, a date/time selector set to "2004-07-15 15:37:37", and a "Find" button. The second row is labeled "To:" and has a checked "Last" checkbox, a date/time selector set to "2004-07-15 15:37:37", and a "Find" button. Below the search section is a table with three columns: "No.", "Event", and "Date/Time". The table contains 16 entries, each with a number, an icon, a description, and a timestamp. At the bottom of the window are buttons for "Print...", "Save...", navigation arrows, a page indicator "1 of 47", and a "Close" button.

No.	Event	Date/Time
100	CAM 4 Backup	2004-07-15 16:24:29
099	CAM 3 South East	2004-07-15 16:24:29
098	CAM 2 North	2004-07-15 16:24:29
097	CAM 1 East	2004-07-15 16:24:29
096	CAM 1 East	2004-07-15 16:24:03
095	CAM 4 Backup	2004-07-15 16:24:02
094	CAM 3 South East	2004-07-15 16:24:02
093	CAM 1 East	2004-07-15 16:24:01
092	CAM 4 Backup	2004-07-15 16:23:42
091	CAM 3 South East	2004-07-15 16:23:42
090	CAM 2 North	2004-07-15 16:23:42
089	CAM 1 East	2004-07-15 16:23:42
088	CAM 4 Backup	2004-07-15 16:22:20
087	CAM 3 South East	2004-07-15 16:22:20
086	CAM 1 East	2004-07-15 16:22:20
085	CAM 2 North	2004-07-15 16:22:05

- **From:** If this box is checked, the search begins from the first remote event log entry. If you want to search a specific starting date/time, remove the check mark and then set the desired date/time.
- **To:** If this box is checked, the search continues until the last remote event log entry. If you want to search a specific ending date/time, remove the check mark and then set the desired date/time.
- **Find:** Displays remote system log entries within the set time period.

Table 3-5 Remote Event Log Icon Descriptions

Icon	Function
	First: Moves to the first page of the found log entries.
	Previous: Moves to the previous page.
	Next: Moves to the next page.
	Last: Moves to the last page of the found log entries.

- **Save:** Saves the log information to a text file.
- **Print:** Prints the log information to a connected printer.
- **Close:** Closes the dialog box.

Status Window for Remote Site

Event

Displays the events detected by the internal motion detector, external sensor, or text-in transaction. The status display of event detection continues during the preset dwell time of the event-driven recording. The icons of each status are as follows:

Table 3-6 Event Status Icon Descriptions

Event Type	Motion Detection	Sensor
Event Status		
Event Detection	 (bright)	 (bright)
No Event Detection	 (dim)	 (dim)
Event Off	 (dark)	 (dark)

Alarm Out

Displays the status of the alarm-out signals. The icons of each status are as follows:

Table 3-7 Alarm Out Status Icon Descriptions

Icon	Status
 (bright)	Alarm Out
 (dim)	No Alarm Out

System Check

Displays the function status of the cameras, alarms, and recording of the remotely connected DVR. The icons of each status are as follows:

System Component	Camera	Alarm	Recording
Component Status			
Normal			
Irregular			
System Check Off			

Record Period

Displays the record period information. Brackets next to the record period information show the operating mode of a remotely connected DVR (**Record**, **Playback** or **Backup**).

- When the DVR is in Simplex mode (the DVR is set to record but will stop recording when playing back clips), RAS displays **Playback** as the operating mode.
- When the DVR is in Duplex mode (the DVR is set to record and can play back clips without interrupting recording), RAS displays **Record** as the operating mode.
- When the DVR is not set up for recording, RAS displays **Backup** as the operating mode.

Note If the remote DVR is in playback mode (Simplex mode), all status icons turn to the **Off** mode.

Version

Displays hardware and software version information.

Batch Job Setup Button



Set up the batch job of a **System Check** (Figure 3-6), remote **Upgrade** (Figure 3-7), and remote **Setup** (Figure 3-9) for multiple remote sites. Batch jobs are designed to perform a system check, upgrade recorder firmware or setup multiple remotely connected DVRs at one time.

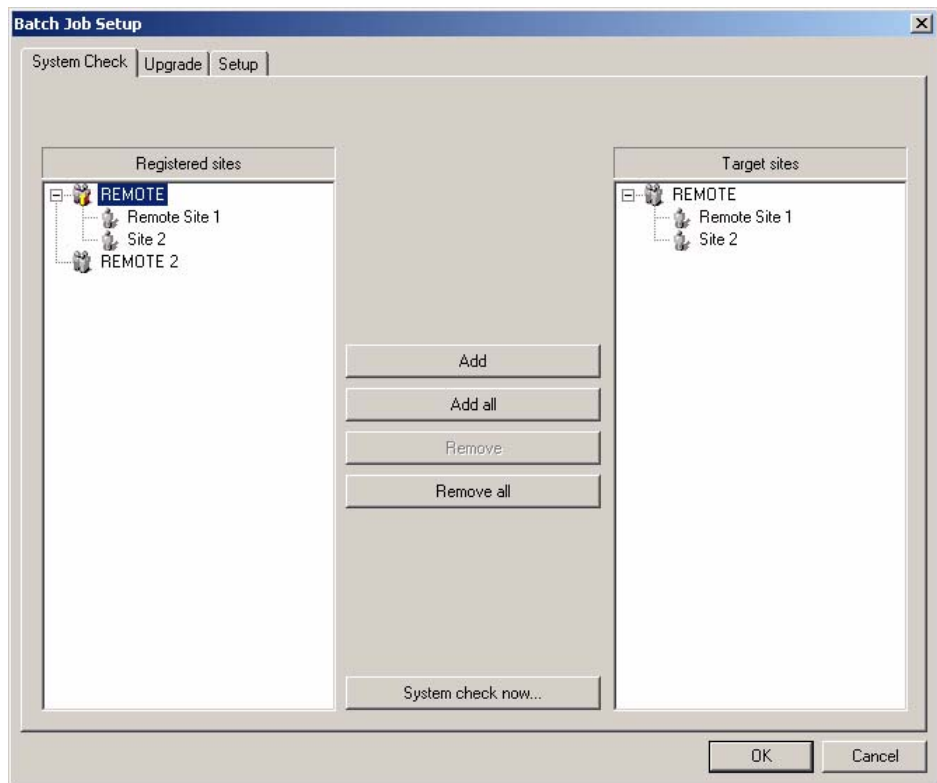
For example, you could use the **System Check** batch job to check the status of all recorders in your system without having to connect to each one individually.

Note Batch jobs cannot be run or setup while you are connected to a site. Disconnect from any connected site to access the batch job options.

System Check

Set up the system check job for remote sites:

1. Select the remote site to check from the **Registered sites** field, and add it to the **Target sites** field by clicking **Add** or **Add all** to select all of the registered sites.
2. Click **System check now...** to initiate the system check job for the target site(s).

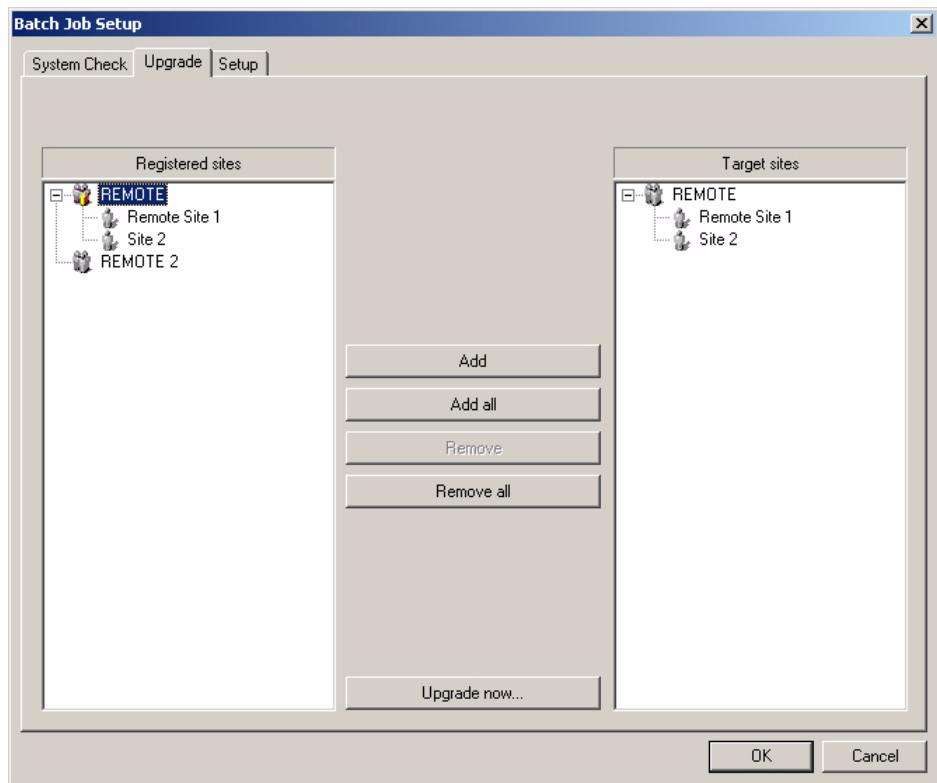
Figure 3-6 Batch Job System Check Screen

- **Add:** Adds the selected site from **Registered sites** to **Target sites**.
- **Add all:** Adds all the sites in **Registered sites** to **Target sites**.
- **Remove:** Removes the selected site from **Target sites**.
- **Remove all:** Removes all the sites from **Target sites**.
- **System check now:** Checks the system(s) on the target remote site(s).

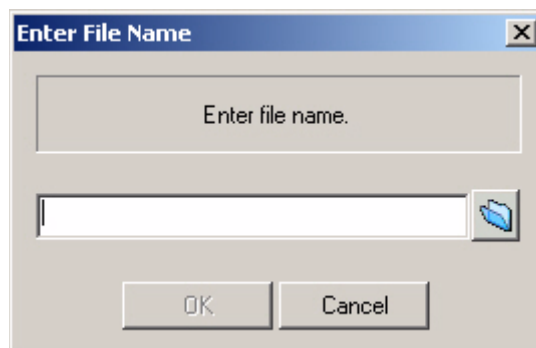
Upgrade

Set up the remote upgrade job for remote sites:

1. Select the remote site to upgrade from the **Registered sites** field, and add it to the **Target sites** field by clicking **Add** or **Add all** to select all of the registered sites.
2. Click **Upgrade now...** to initiate the remote upgrade job for the target site(s).
3. The Enter File Name screen opens (see [Figure 3-8](#)). Click browse () to search for the DVR upgrade image file, or enter the filename and click **OK**.

Figure 3-7 Batch Job Upgrade Screen

- **Add:** Adds the selected site from **Registered sites** to **Target sites**.
- **Add all:** Adds all the sites in **Registered sites** to **Target sites**.
- **Remove:** Removes the selected site from **Target sites**.
- **Remove all:** Removes all the sites from **Target sites**.
- **Upgrade now:** Upgrades the software on the target remote site(s).

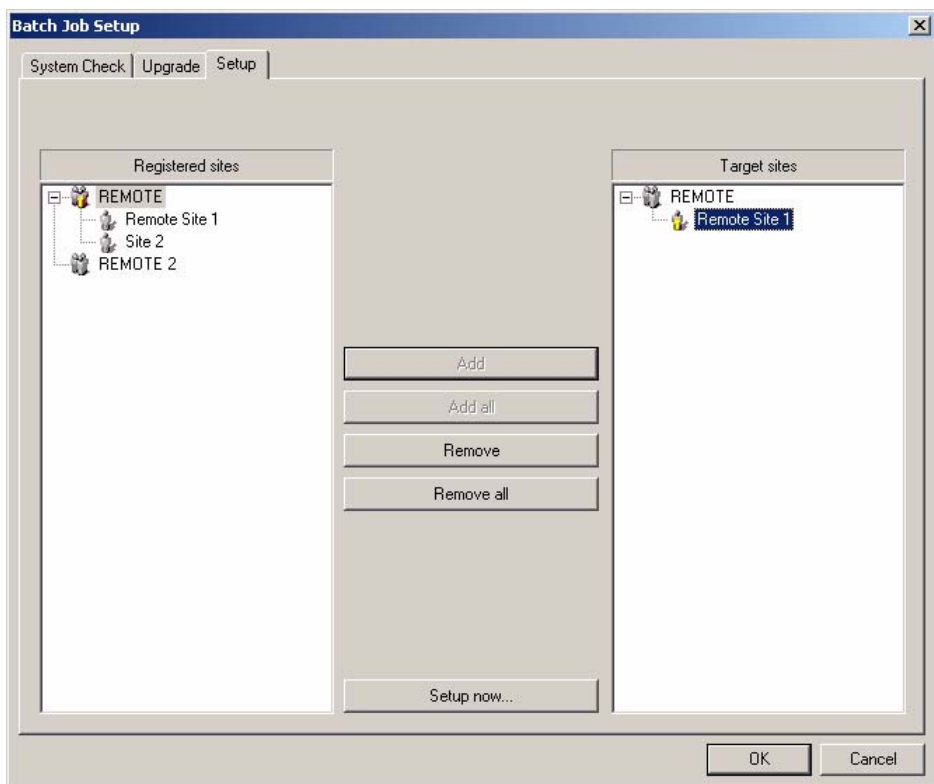
Figure 3-8 Enter Filename Screen

Setup

When using the Setup Batch Job, some jobs will be skipped as they cannot be done as a batch (setting up IP addresses for example). Set up the remote setup job for remote sites:

1. Select the remote site to set up from the **Registered sites** field, and add it to the **Target sites** field by clicking **Add** or **Add all** to select all of the registered sites.
2. Click **Setup now...** to initiate the remote setup job for the target site(s).
3. The Enter File Name screen opens (see [Figure 3-8](#)). Click browse () to search for the setup file saved during remote setup, or enter the filename and click **OK**.

Figure 3-9 Batch Job Setup Screen



- **Add:** Adds the selected site from **Registered sites** to **Target sites**.
- **Add all:** Adds all the sites in **Registered sites** to **Target sites**.
- **Remove:** Removes the selected site from **Target sites**.
- **Remove all:** Removes all the sites from **Target sites**.
- **Setup now:** Sets up the target remote site(s).

Local Setup Button



The **Local Setup** button initiates programming for system operation (*Figure 3-10*) and remote site configuration (*Figure 3-11*).

System

Set up the date/time format for RAS, the modem connection information for remote access, the system password, display, and network options.

Figure 3-10 Admin System Setup Screen

Setup - Admin

System Remote Site

Date/Time Format

Date/Time : 2004-07-15 16:06:02

Date format : YYYY-MM-DD

Time format : 24 Hours

Dial-up Network

☐ Use modem

Select modem :

Security Options

Verify password : ☐ Before setup ☐ Before startup ☐ Before shutdown

Change...

Display Option

Display acceleration : Normal None Full

Network Option

Callback IP port number : 8201 (8000 ~ 12000)

OK Cancel

- **Date/Time Format:** Set the date/time format.
- **Dial-up Network:** Select **Use modem** if you want to use the internal modem or an external modem for remote access.
- **Security Options:** Set up password confirmation to be required **Before setup**, **Before startup**, or **Before shutdown** of RAS. Click **Change** to change the password. The password can be composed of up to 8 characters (case sensitive).

- **Display Option:** Set up the display acceleration.
 - **None:** Not using the display acceleration.
 - **Normal:** Using the display acceleration (DirectX).
 - **Full:** Using the display acceleration (DirectX Video Memory).

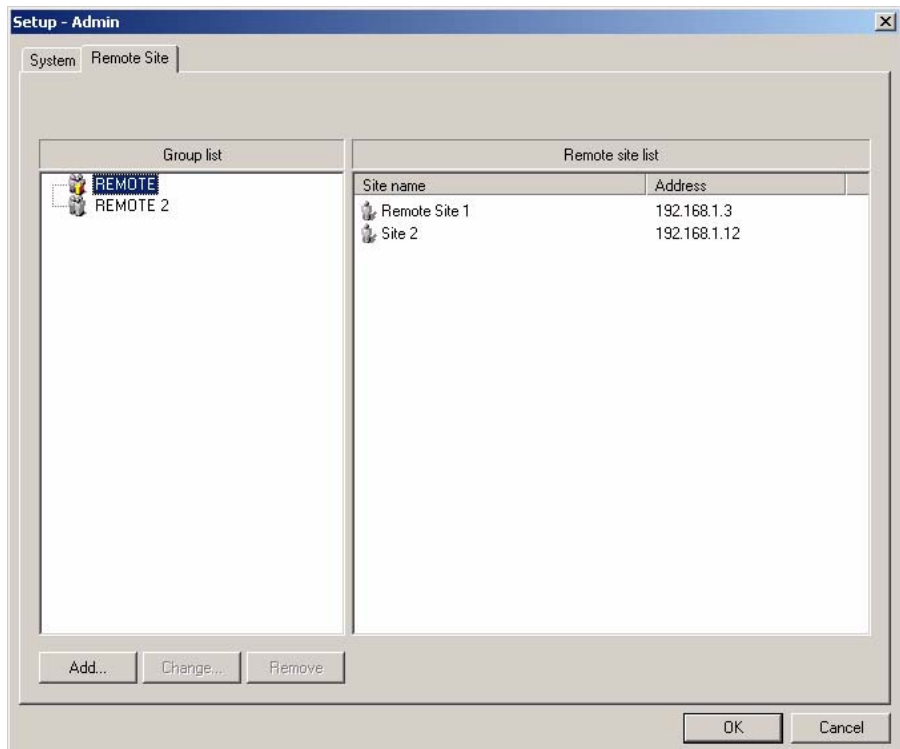
Note The image may not display properly. This could be a result of the specifications of your PC. In this case, lower the level of the display option.

- **Network Option:** Set up the IP port number (from **8000** to **12000**) that is used for network connection when receiving a callback message from a remote site. The IP port number you enter should match the value set during the LAN setup on the remotely connected DVR.

Remote Site

Configure the connection list for remote access.

Figure 3-11 Admin Remote Site Setup



1. Click **Add** and enter the information of the remote site to be registered (see [Figure 3-12](#)).
2. Enter a **Site name** and the **IP address** of the remote site (or a modem phone number for dial-up connections), acquired from your network administrator. If you have entered a user ID and a remote site password for remote access, the site will connect automatically without you being prompted for a password.

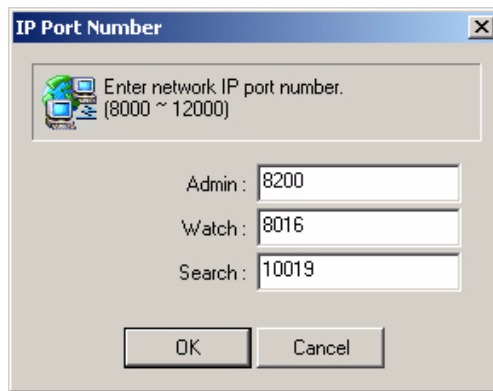
Note Up to 32 characters may be entered for the site name and telephone number, and eight characters entered for the password.

Figure 3-12 Add a Site Screen

The screenshot shows the 'Add Site' dialog box. It contains three main sections: 'Reference Group' with a dropdown menu showing 'REMOTE' and an 'Add...' button; 'Remote Site Setup' with 'Site name' (Remote Site 3), 'IP address' (192.168.1.25), a 'Port...' button, and a 'Use modem' checkbox; and 'Login Setup' with 'User ID' (USER 1), 'Password' (masked with x), 'Confirm password' (masked with x), and a 'No password' checkbox. At the bottom are 'OK' and 'Cancel' buttons.

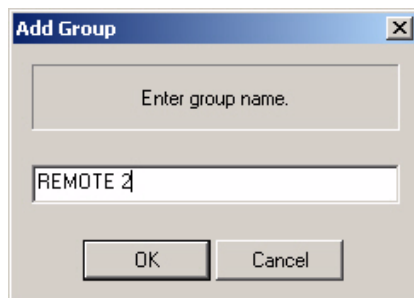
3. The box beside **User ID** can be disabled, depending on the RAS software version.
4. Click **Port...** and set up the IP port number of each program (see [Figure 3-13](#)). The IP port number you enter should match the value set during the LAN setup on the remotely connected DVR. If the remote DVR version does not allow you to set the IP port numbers, use the following values:

8200 for **Admin**, **8016** for **Watch**, and **10019** for **Search**.

Figure 3-13 IP Port Number Screen


The dialog box titled "IP Port Number" contains a message: "Enter network IP port number. (8000 ~ 12000)". Below the message are three input fields: "Admin" with the value "8200", "Watch" with the value "8016", and "Search" with the value "10019". At the bottom are "OK" and "Cancel" buttons.

5. For the effective management of multiple remote sites, we suggest you assign the site to a **Reference Group**.
 - a. Click **Add** to make a new reference group (see [Figure 3-14](#)). The **Add Group** dialog box appears.
 - b. Enter a group name to register.
 - c. Click **OK**.

Figure 3-14 Add a Group Screen


The dialog box titled "Add Group" contains a message: "Enter group name.". Below the message is a text input field containing the text "REMOTE 2". At the bottom are "OK" and "Cancel" buttons.

To change a group or site, select the group or the site to change and click **Change**. And then change the site information.

To remove a group or site, select the group or the site to remove and then click **Remove**.

Log Buttons

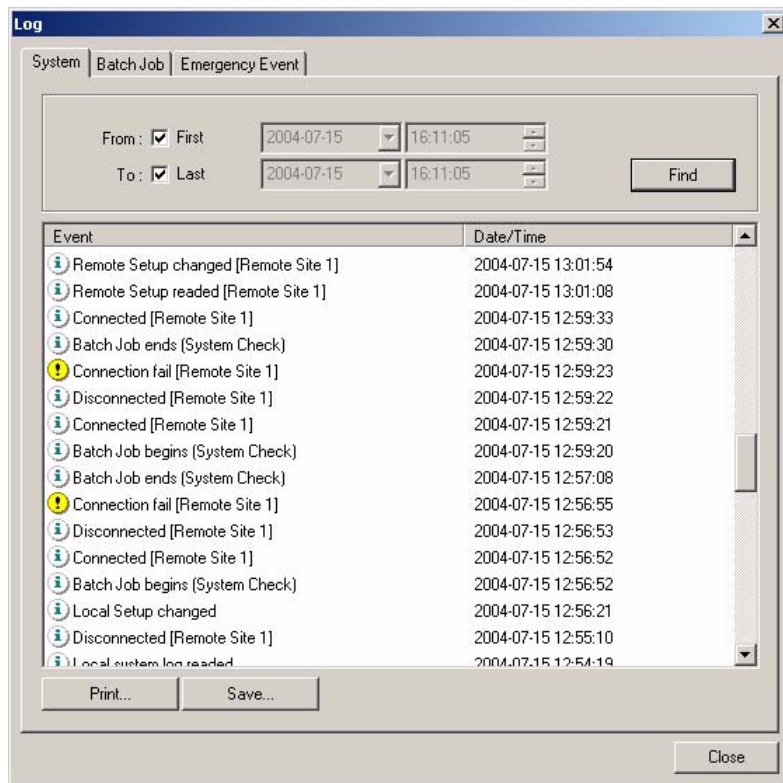
Displays the **System Log** (see [Figure 3-15](#)), **Batch Job Log** (see [Figure 3-16](#)), and **Emergency Event Log** (see [Figure 3-17](#)) information according to the search conditions.



System Log

Displays the RAS system log information (*Figure 3-15*). If you set a time period of interest and click **Find**, the system log entries within that time period display in the list.

Figure 3-15 System Log Screen



- **From:** If this box is checked, the search begins from the first system log entry. If you want to search a specific starting date/time, remove the check mark and then set the desired date/time.
- **To:** If this box is checked, the search continues until the last system log entry. If you want to search a specific ending date/time, remove the check mark and then set the desired date/time.
- **Find:** Displays system log entries within the set time period.
- **Save:** Saves the log information to a text file.
- **Print:** Prints the log information to a connected printer.
- **Close:** Closes the dialog box.



Batch Job Log

Displays the RAS batch job log information (*Figure 3-16*). If you set a time period of interest and click **Find**, the batch job log entries within that time period display in the list.

Figure 3-16 Batch Job Log Screen

Site	Date/Time	Job	Status
Remote Site 3	2004-07-15 16:13:51	Check	Fail
Site 2	2004-07-15 16:13:50	Check	Fail
Remote Site 1	2004-07-15 16:13:48	Check	Succeed
Site 2	2004-07-15 16:13:36	Check	Fail
Remote Site 1	2004-07-15 16:13:34	Check	Succeed
Site 2	2004-07-15 12:59:23	Check	Fail
Remote Site 1	2004-07-15 12:59:21	Check	Succeed
Site 2	2004-07-15 12:56:55	Check	Fail
Remote Site 1	2004-07-15 12:56:52	Check	Succeed

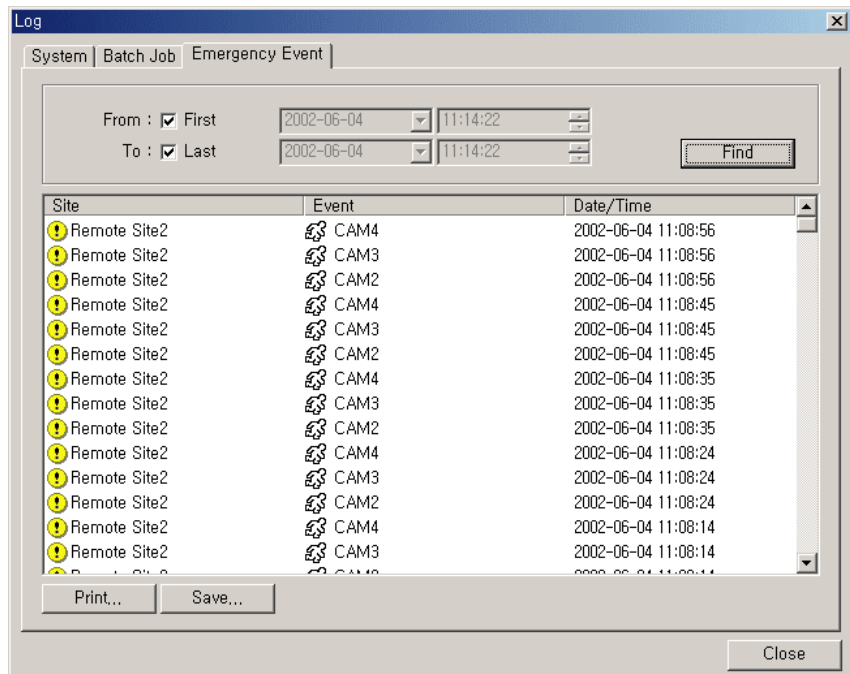
- **From:** If this box is checked, the search begins from the first batch job log entry. If you want to search a specific starting date/time, remove the check mark and then set the desired date/time.
- **To:** If this box is checked, the search continues until the last batch job log entry. If you want to search a specific ending date/time, remove the check mark and then set the desired date/time.
- **Find:** Displays batch job log entries within the set time period.
- **Save:** Saves the log information to a text file.
- **Print:** Prints the log information to a connected printer.
- **Close:** Closes the dialog box.



Emergency Event Log

Displays the log information of emergency events called back from remote sites (Figure 3-17). If you set a time period of interest and click **Find**, the emergency event log entries within that time period display in the list.

Figure 3-17 Emergency Event Log Screen



- **From:** If this box is checked, the search begins from the first emergency event log entry. If you want to search a specific starting date/time, remove the check mark and then set the desired date/time.
- **To:** If this box is checked, the search continues until the last emergency event log entry. If you want to search a specific ending date/time, remove the check mark and then set the desired date/time.
- **Find:** Displays emergency event log entries within the set time period.
- **Save:** Saves the log information to a text file.
- **Print:** Prints the log information to a connected printer.
- **Close:** Closes the dialog box.

RAS Watch

Description

The RAS Watch is powerful and reliable remote surveillance software, that provides a remote monitoring function for video images in real time from either a single site or multiple sites. In addition, when events are detected at a remote site the RAS Watch displays the event information and allows you to access the remote site directly to search the images associated with the event.

The GUI of the RAS Watch is shown in *Figure 4-1* and the description of each control area follows.

Note When used at a remote site, some DVR models will only transmit images while recording video.

Figure 4-1 RAS Watch User Interface



Table 4-1 RAS Watch Controls and Areas

RAS Watch	Function
	Quit closes the RAS Watch program.
	Selects the remote site to connect to.
	Connect initiates a connection to the selected site in the remote site list.
	Screen Modes allows selection of single full screen view, quad, 3x3 or 4x4 display modes.
	Camera buttons select the cameras to be viewed (1–16), depending on the DVR model.
	Full Screen displays the playback in full screen mode.
	Auto Sequence connects to the registered sites automatically.
Alarm Out control	Controls alarm out devices of the remotely connected site.

RAS Watch (cont'd)	Function
PTZ control	Controls pan, tilt, and zoom of a PTZ camera at the remote site.
Image Adjust control	Allows adjustment of viewed images (contrast, brightness, saturation, and hue).
	Auto Connection connects to the remote site automatically when any event is detected.
Event List	Displays the event logs of a remotely connected DVR.
	Setup runs a setup program for RAS Watch.
Monitor screen	Displays images from selected cameras in the selected screen mode. Note The monitor screen displays video while the remote DVR is in the playback mode (Simplex mode), and No Video when the remote DVR has no video input.

Note Image adjustment, PTZ control, and alarm out control may not be supported, depending on the specification of the remotely connected DVR.

Functions of the RAS Watch

Remote Sites/Connection Buttons



Selecting remote sites

1. Click the **Remote Sites** button to display the list of **Favorites** and **Remote sites** available (*Figure 4-2*).
2. Select the site to connect to.

3. Connect to the site by clicking the **Connection** () plug-in button.

Figure 4-2 Remote Sites List

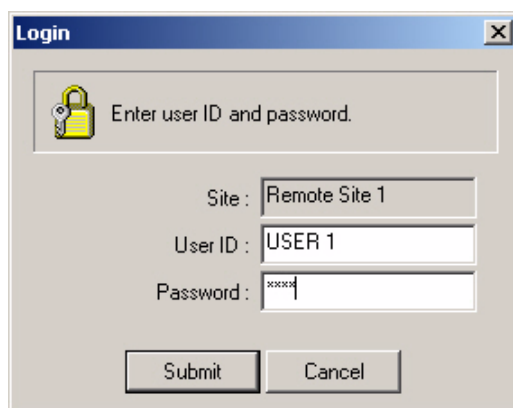


Connecting to the site

1. Click the **Connection** button to initiate the network connection to the selected remote site. If the password has not been registered in the RAS Admin, the **Login** dialog box appears (*Figure 4-3*).
2. Enter the password of the remote DVR.

Note In a case when connecting to the remote DVR should require no password (for example, guest login), select the **No password** option when registering a remote site in the RAS Admin.

Figure 4-3 Login Screen



Screen Mode Buttons



To select the screen mode, click one of the four **Screen Mode** buttons.

Single-screen mode

To view a specific image in the single-screen mode when you are currently in a multiscreen mode, double-click that image with the left mouse button.

Return to the previous screen mode

To return to the previous screen mode from the single-screen mode, double-click the left mouse button in the monitoring window.

Full Screen Button



When this button is depressed (selected), you can view video in full screen mode.

Note Full screen button is not currently supported.

Camera Buttons



Press one of 16 camera buttons to select the camera to view from the remote site.

PTZ Control

Pan/Tilt/Zoom

Select the PTZ camera at the remote site, and control pan, tilt, and zoom with the appropriate controls (see [Figure 4-4](#)).

Figure 4-4 PTZ Controls

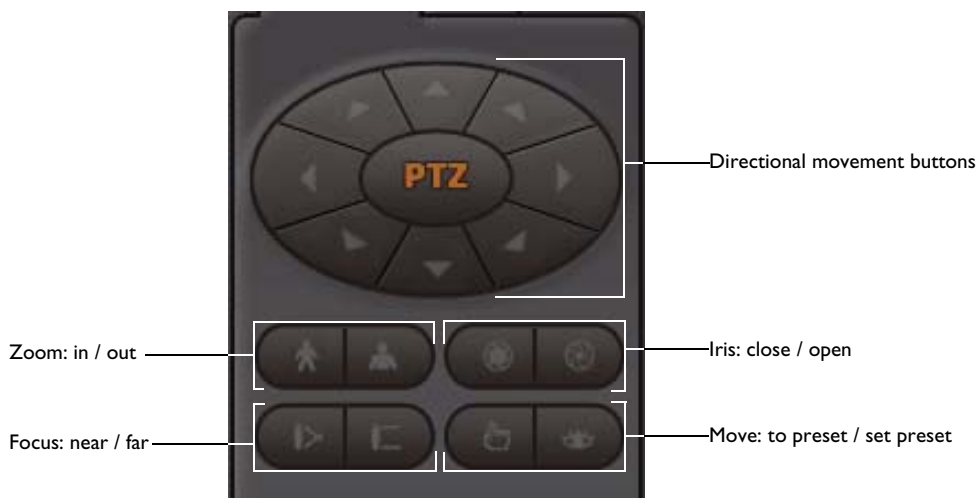


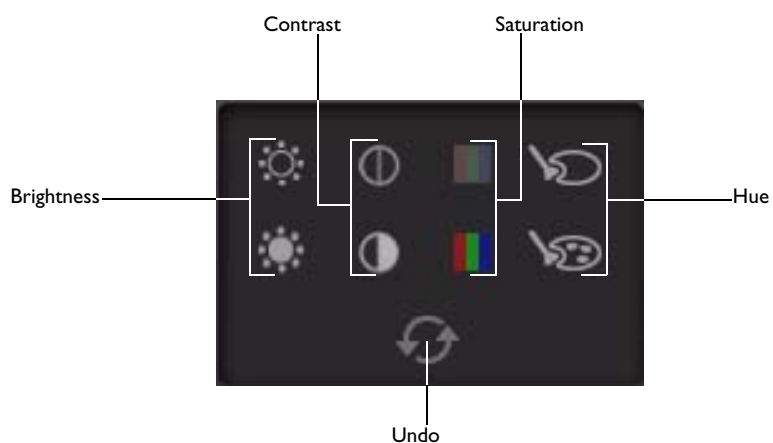
Image Adjust Button

Brightness / Contrast / Saturation / Hue

Adjust the brightness, contrast, saturation, and hue by clicking the target icons (see [Figure 4-5](#)). Clicking the **Undo** icon cancels the image processing operation and reloads the original image.

Note It is important that images are properly adjusted. These adjustments cannot make up for improperly adjusted images after the images have been recorded.

Figure 4-5 Image Enhancement Controls



Alarm Out Control

Control the alarm out device of the remotely connected DVR by clicking the **ON** or **OFF** buttons (see [Figure 4-6](#)).

Figure 4-6 Alarm Out Control Panel



Note Image adjust, PTZ control, and alarm out control may not be supported, depending on the specifications of the remotely connected DVR.

Note Only the administrator can control a PTZ camera, adjust the image, and control the alarm out device from a remote site.

Auto Sequencing Button



When this button is depressed (selected), RAS connects to the registered sites sequentially, allowing for the connection of more than one remote site.

Note The **Auto Connection** and **Setup** buttons cannot be selected while the auto sequencing option is activated.

Auto Connection Button



When this button is depressed (selected), any event detected at the remote site will result in the auto connection to a remote monitoring location (must be running the RAS software).

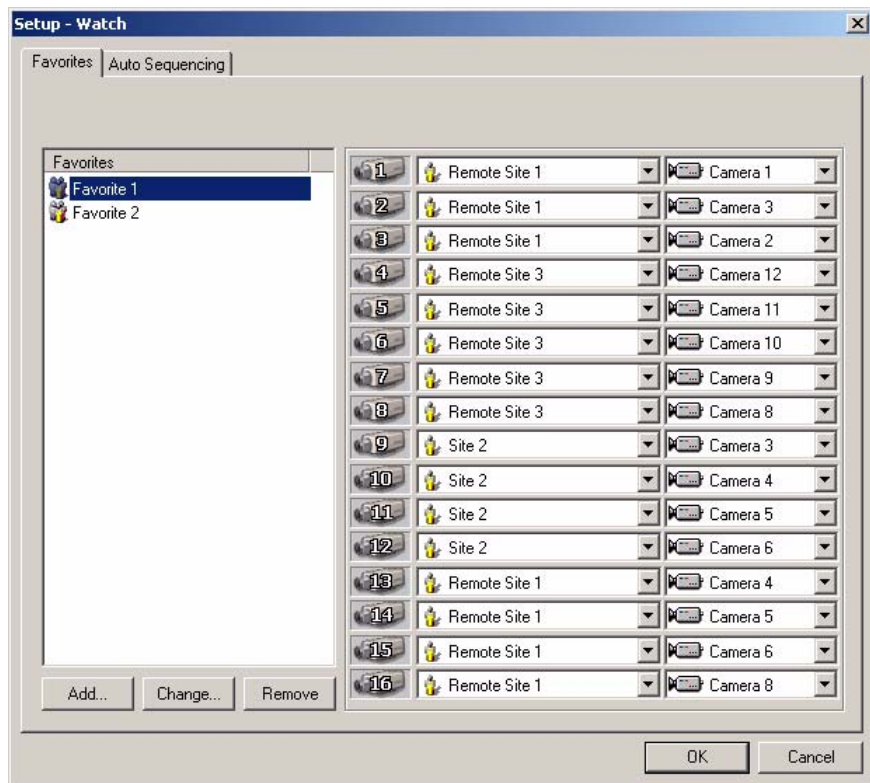
Note The **Auto Sequencing** and **Setup** buttons cannot be selected while the auto connection option is activated.

Setup Button



Runs a setup program for the RAS Watch. The **Setup** button is disabled when RAS connects to the remote site. Disconnect all the current connections and then click **Setup** to display the **Setup—Watch** dialog box. Here you may set up the **Favorites** (Figure 4-7) and **Auto Sequencing** (Figure 4-8) information.

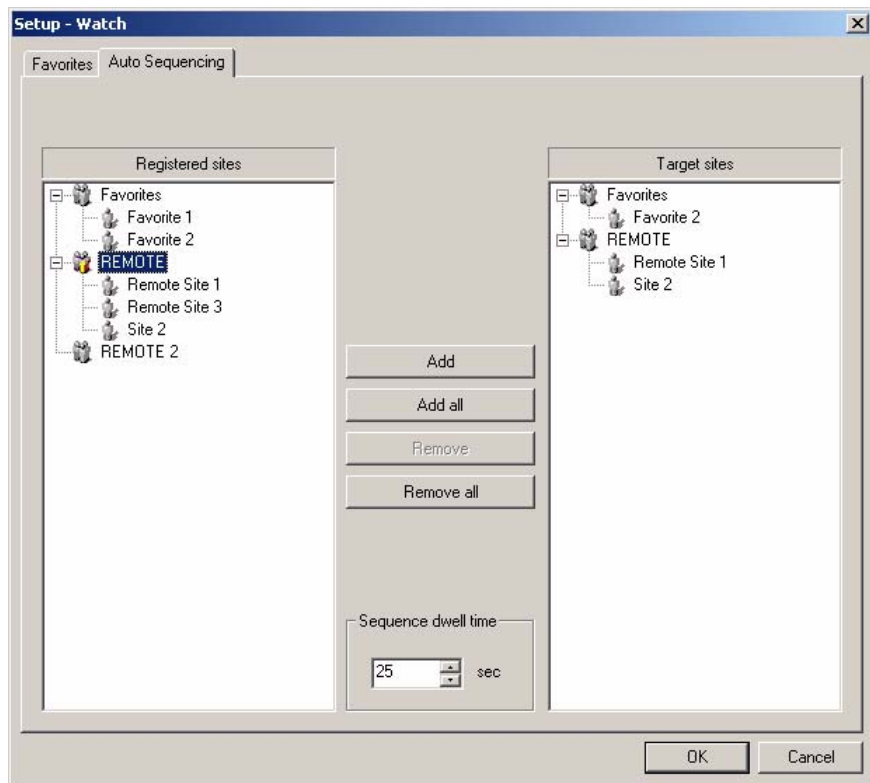
Figure 4-7 Setup Favorites Screen



Favorites is the user-defined connection list that combines more than one remote site. This allows you to monitor multiple sites at the same time with a single connection to the targeted **Favorite**. Add a new **Favorite**, and then assign the location and name to each. Up to 16 cameras can be monitored when each camera is assigned to a different location.

- **Add:** Adds a new **Favorite**.
- **Change:** Changes the name of the selected **Favorite**.
- **Remove:** Removes the selected **Favorite**.

Note The Favorites list is not valid with modem connections.

Figure 4-8 Setup Auto Sequencing Screen

The **Auto Sequencing** feature allows you to set up a sequence of video inputs that the RAS Watch program will cycle through according to the **Sequence dwell time**. This functions similarly to the sequence feature on your DVR except that instead of seeing video from cameras on just one recorder, the auto sequence can include all remotely connected recorders in one sequence. This feature will allow you to monitor all incoming video without having to connect and disconnect from each site individually.

- **Add:** Adds the selected site from **Registered sites** to **Target sites**.
- **Add all:** Adds all the sites in **Registered sites** to **Target sites**.
- **Remove:** Removes the selected site from **Target sites**.
- **Remove all:** Removes all the sites from **Target sites**.
- **Sequence dwell time:** Specifies the sequence dwell time for each connection.

Note Auto sequencing is not valid with modem connections.

RAS Search

Description

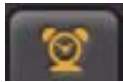
The RAS Search is remote search software, that searches for recorded images on a remotely connected DVR and plays back the found images. In addition to the search and playback functions, RAS Search also provides additional functions such as zooming in/out and saving and printing images. Features of the RAS Search program include:

- Timelapse and event searching
- Recording a status table
- Zooming in and out of an image
- Other various image enhancement
- Saving the current image
- Printing the current image

The search function is divided into two modes of operation: timelapse mode and event mode. A timelapse search is a process in which the system searches for recorded data according to specific time parameters and then plays back the found images. An event search is a process in which the system searches for event log entries using specific conditions and then plays back the images associated with those event log entries. These two modes are different in screen configuration and search method. The RAS Search default setting is the timelapse search mode. The last search mode used is automatically selected the next time the RAS search function is executed.

To search for and play back recorded images, select a remote site to access first. Click **Remote Sites** to display the list registered in RAS Admin, and then click **Connect** () to connect to the selected site. Release (select a second time) **Connect** to disconnect from the current connection.

Timelapse Search

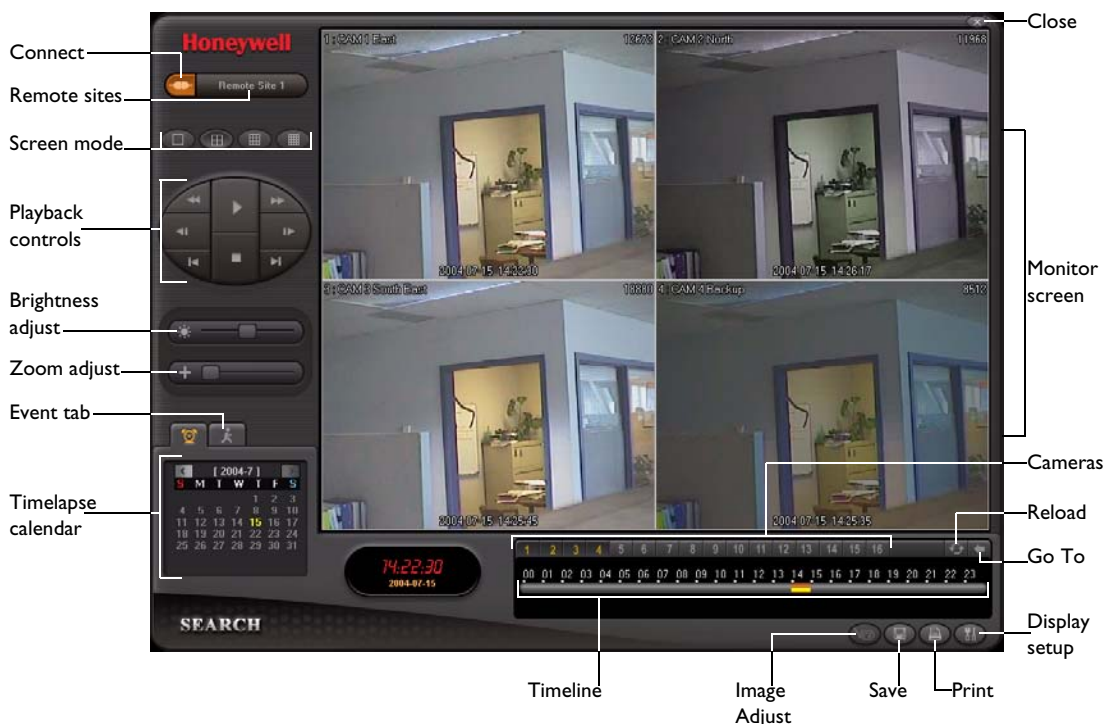


In Time-lapse mode, the system searches for recorded images by time and plays back the found images. Selecting a date from the calendar initiates a timelapse search. The dates for available recordings are displayed in bright white characters. When first entering the timelapse search, the newest recorded date will be selected (highlighted in yellow) in the calendar.

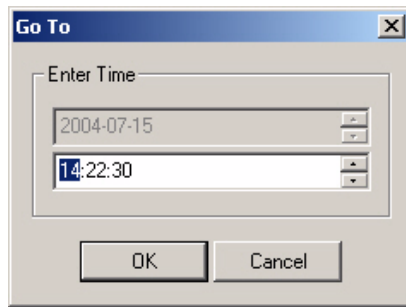
Click **Reload** () to reload the date information. Recorded information available from the selected date is shown on the recording status table. The recorded clips are displayed by time (in hour segments). A yellow line indicates the selected time (in hour segments) that will be played back.

Go to a specific hour by clicking on the desired hour segment. Video images will be played back starting with the first image captured within the selected one-hour segment.

Figure 5-1 Timelapse Search User Interface



To view an image at a specific time, click **Go To** (). This action displays the **Go To** dialog box (Figure 5-2). The input time range is within the currently selected date. If you want to view images for a different date, select the date in the calendar before you click **Go To**.

Figure 5-2 Go To Time Screen

Event Search



Click the **Event** () icon located next to the **Time-lapse** () icon above the calendar to enter Event mode. Click the Time-lapse icon to return to Time-lapse mode. In Event mode, you can search for the event(s) associated with the specific condition as defined by you. First, click **Query** () below the event icon, and then set up the search condition in the **Event Search** dialog box. When loading the event search for the first time, the **Event Search** dialog box appears automatically. Search modes by Event and Camera are provided.

Using **Search By Event** method (*Figure 5-3*), you can search for the detection results of the targeted event(s) by selecting the targeted event(s) as the search condition.

Figure 5-3 Search By Event Screen

Event Search

Search By: **Event**

From: ☒ First 2004-07-15 13:37:01

To: ☒ Last 2004-07-15 13:37:01

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Alarm-In:	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Motion:	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Video Loss:	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒

Find **Cancel**

- **Search By:** Selects **Event** as a search option.
- **From:** If this box is checked, the search begins from the first recorded data. If you want to search a specific starting date/time, remove the check mark and then set the desired date/time.
- **To:** If this box is checked, the search continues until the last recorded data. If you want to search a specific ending date/time, remove the check mark and then set the desired date/time.
- **Alarm-In, Motion, Video Loss:** Select target channel(s) of each event-triggered device (search by **Event** only).

Using the **Search By Camera** method (*Figure 5-4*), you can search for the event results of the targeted camera(s) associated with optional event(s), and also search for more specific results by selecting the event(s) type.

Figure 5-4 Search By Camera Screen

Event Search

Search By: **Camera**

From: ☒ First 2004-07-15 13:37:01

To: ☒ Last 2004-07-15 13:37:01

Camera

☒ 1 ☒ 2 ☒ 3 ☒ 4

☒ 5 ☒ 6 ☒ 7 ☒ 8

☒ 9 ☒ 10 ☒ 11 ☒ 12

☒ 13 ☒ 14 ☒ 15 ☒ 16

Event

☒ Alarm-In

☒ Motion

☒ Video Loss

Find **Cancel**

- **Search By:** Selects **Camera** as a search option.
- **From:** If this box is checked, the search begins from the first recorded data. If you want to search a specific starting date/time, remove the check mark and then set the desired date/time.
- **To:** If this box is checked, the search continues until the last recorded data. If you want to search a specific ending date/time, remove the check mark and then set the desired date/time.
- **Camera/Event:** Select target camera channel(s) associated with each event, and select event option(s).

Note The information of search methods in the **Event Search** dialog box can vary with the specifications of the remotely connected DVR.

Set up the search criteria for the event search in the **Event Search** dialog box (see [Figure 5-3](#) and [Figure 5-4](#)). Select the search method first, and then click the **Find** button after setting the search period and the other search conditions. The results display in the event list located in the main window of RAS Search ([Figure 5-5](#)).

Figure 5-5 Event Search User Interface



If you select the targeted event in the list, the recorded data associated with that event displays in the main monitor window. The images may be played back using the play back buttons. A total of 100 results can be displayed in the event list at a time. Click **Query Next** () to display the next set of results.

Other Functions

Playback Functions

Button	Function
	Fast Backward Play
	Stop
	Play
	Fast Forward Play
	Go to the First Image
	Go to the Previous Image
	Go to the Next Image
	Go to the Last Image

Note When RAS Search is playing back video, all other buttons and features, except the **Stop** button, are disabled until playback is stopped.

Note Fast forward speed depends on the network bandwidth and the number of images per second. If RAS is connected to the remote site with a dialup connection (PSTN), the **Go to Previous Image** button will be disabled, due to the length of time required to obtain the previous image.

Screen Modes



The RAS Search program provides a multiscreen playback function. The available multiscreen formats are single full screen view, quad, 3x3, and 4x4.

Note Playback must be stopped in order to change screen modes. Press **Stop** to stop playback.

Image Enhancement



Allows enhancements to be made to images being played back. Adjustments include blurring, sharpening, equalizing, interpolation and the option to **Revert** to the original image settings.

Note Playback must be stopped for image enhancement to function. Stop playback, select the appropriate camera and adjust the images as desired, then restart playback.



Zoom In/Out

Enlarges a specific part of the image up to five times the original zoom using a control slider. You can electronically pan and tilt within the enlarged image by dragging the image with a mouse.

Note Playback must be stopped in order to use the zoom feature. Press **Stop** to stop playback.

Note Zoom In/Out works only in the single full screen mode.



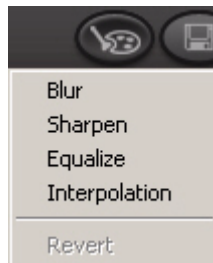
Brightness

Changes the brightness of the current image using a control slider.

Note Playback must be stopped in order to use the brightness feature. Press **Stop** to stop playback.

Note Brightness works only in the single full screen mode.

Figure 5-6 Image Enhancement Options



Note Playback must be stopped in order to use the image enhancement options. Press **Stop** to stop playback.

Blur/Sharpen

Blurs or sharpens the given image.

Equalize

Equalizes the given image.

Interpolation

Reduces the alias effect that occurs when using the zoom function.

Note Interpolation works only for the enlarged image.

Revert

Reloads the original image.

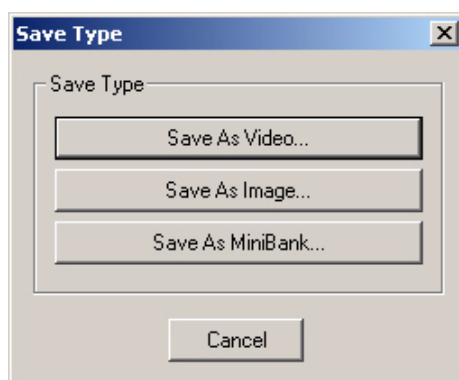
Save



Click **Save** to save the currently displayed recorded data to your PC. There are three ways you can save the data.

Note Playback must be stopped in order to save video. Press **Stop** to stop playback.

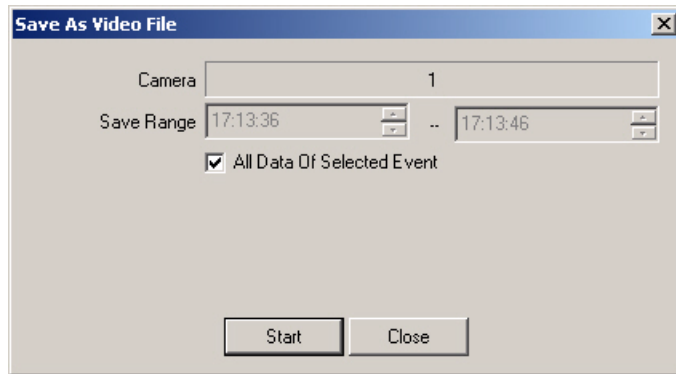
Figure 5-7 Choose Save Type Screen



Save As Video

Saves any video clip of recorded data in an AVI (Audio Video Interleaved) file format (see [Figure 5-8](#)).

Figure 5-8 Save as Video File Screen



1. Set the time range you want to save in the **Save Range** fields.
2. If you want to save all recorded data by the event you select in event list, place a check mark in the **All Data Of Selected Event** box (this check box is visible when searching in **Event mode** only).
3. Click **Start**.
4. Set the file name and the video compression codec.

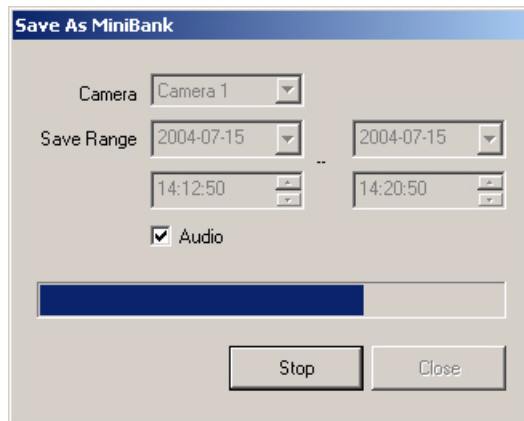
Save As Image

Saves the current image in a **bitmap** or **JPEG** file format.

Save As MiniBank

Saves any video clip of recorded data in an **.exe** file format (see [Figure 5-9](#)).

Figure 5-9 Save as MiniBank Screen



1. Select the camera number for which you want to save video in the **Camera** field.
2. Set the time range you want to save in the **Save Range** fields.
3. Placing a check mark in the **Audio** box saves audio data with the video.
4. Click **Start**.
5. Select a **Save in** option.
6. Enter a **File name**.
7. Select **Save as type (.exe)** for the video you are saving.
8. Click **Save** to save the file.

Note We recommend that you do not save files larger than 2 GB.

Note In the **Event Search** mode, you cannot use this function. Also, this function may not be supported, depending on the specifications of the remotely connected DVR.

Print



Prints the current image.

Note Playback must be stopped in order to print an image. Press **Stop** to stop playback.

Display Setup

Note Display options can vary with the specifications of the remotely connected DVR.

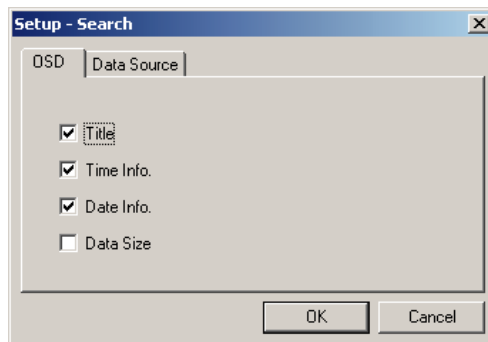
OSD



Sets up the on-screen display (OSD) options. These options include displaying the camera title, the clip time and date information and the data size. The data size is a fluctuating number that represents the size of the video file. Data size affects the video transfer rate as well as the image quality.

Note Playback must be stopped in order to adjust the on-screen display. Press **Stop** to stop playback.

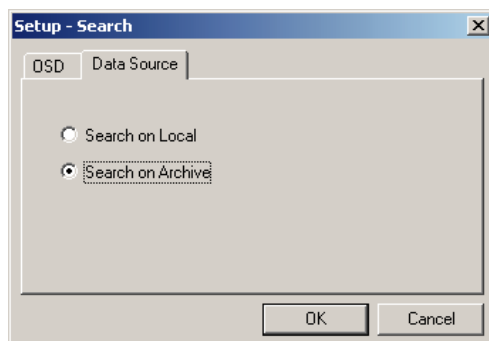
Figure 5-10 On-Screen Display Setup Screen



Data Source

Sets up the data source to be searched.

Figure 5-11 Data Source Setup Screen



- **Search on Local:** If this option is selected, RAS searches recorded data on primary storage installed on the remotely connected DVR.
- **Search on Archive:** If this option is selected, RAS searches archived data on backup storage installed on the remotely connected DVR.

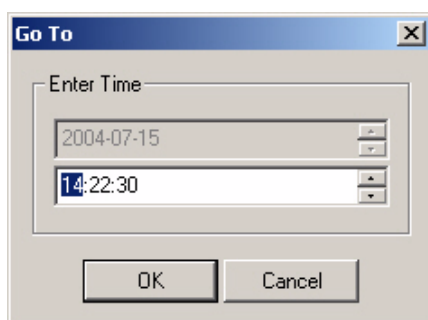
Go To Date/Time



Goes to the specified dates and times directly using the **Go To** dialog box.

Note Playback must be stopped and you must be in time-lapse mode in order to go directly to a specific date and time. Press **Stop** to stop playback and press the **Time-Lapse** icon to enter time-lapse mode.

Figure 5-12 Go To Time Screen



MiniBank Self Player

You do not need to install any special software on you PC to review the video saved as a MiniBank file. The backup file contains the Player program required for viewing. Double-clicking the target backup file starts the Player program.

Note It is suggested that the computer used for playing back a MiniBank file has at least a 800MHz Pentium III. If your CPU is slower than this, MiniBank files recorded at maximum speed with very high image quality will play back slowly.

Figure A-I MiniBank Self Player User Interface

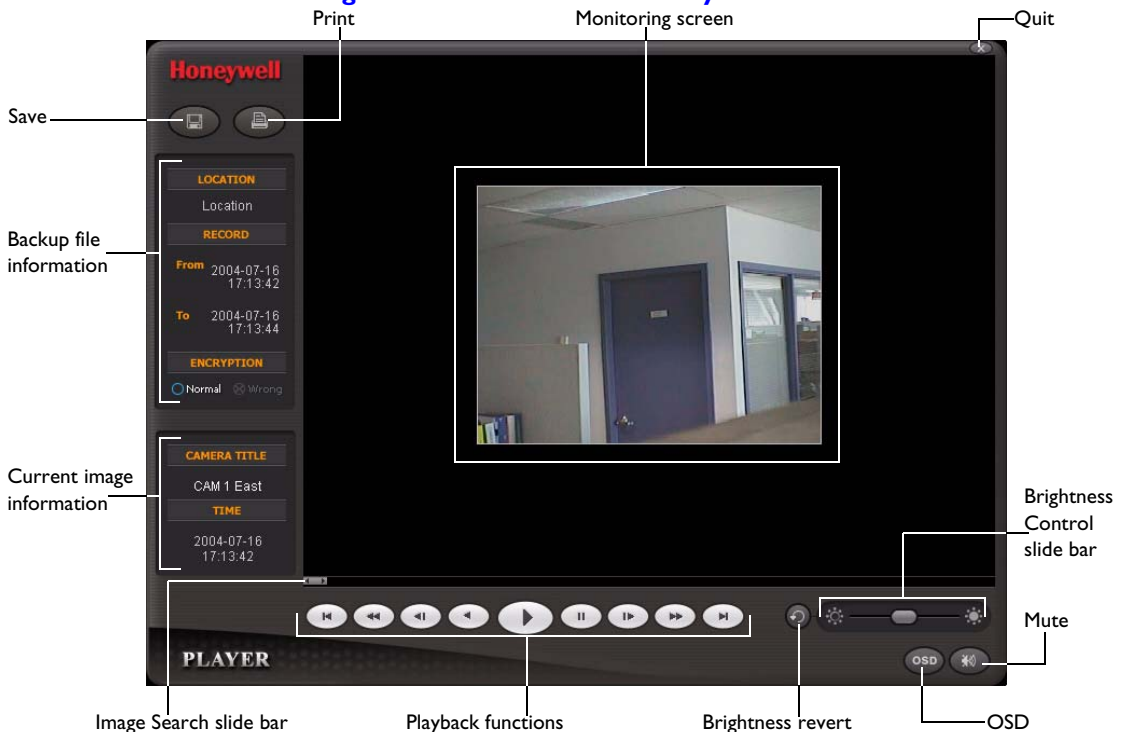


Table A-1 MiniBank Self Player Controls and Areas

RAS Watch	Function
	Quit closes the Player program.
	Save will save the current image in a bitmap file format to the local hard disk drive or floppy disk.
	Print will print the current image on the printer connected to your computer.
	The Brightness Control Slide Bar adjusts the brightness of the backup images by clicking the mouse and dragging it along the slider bar. Minute brightness change can be made by using the arrow buttons located at each end of the bar.
	Brightness Revert reloads to the original image.
Backup File Information Window	Displays information concerning the backup file. Location displays the site description of the DVR where the backup was made. Record displays the time span of the video backup file. Encryption displays whether the backup file has been tampered with. Normal means the file has not been tampered with, Wrong means the system has detected tampering, and no mark means the user has cancelled the encryption check.
Current Image Information Window	Displays information about the current image. Camera Title displays the camera name of the current image, and Time displays the date and time the image was recorded.
Playback Functions	Include fast backward, backward play, forward play, pause, fast forward, go to the first image, go to the previous image, go to the next image, and go to the last image buttons.
	OSD (On-Screen Display) switches the OSD option. The OSD information includes camera location and date/time.
Image Search Slide Bar	Displays the current playback position. The user can move to another image by clicking the mouse and dragging it along the slide bar.
	Mute mutes the recorded audio.
Monitor screen	Displays the backed up images. Clicking the right mouse button on the images switches the screen size between 320x240 and 640x480.

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