X-Series
Digital Video Recorders

EDR-X04
EDR-X109
EDR-X116
EDR-X216
EDR-X416

***User Manual* for Server and Remote**
Version 2003G
Toll Free: 1 800 947 3566
http://www.elmousa.com/

ELMO DVR User Manual 2003G V2.07

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ELMO DVR Server and ELMO DVR Remote

INTRODUCTION

Welcome

Thank you for purchasing our ELMO X-Series Digital Video Recorder (DVR). ELMO Manufacturing Corp. is a registered trademark of ELMO Company LTD.

This manual will guide you through the usage of ELMO DVR Server and ELMO DVR Remote software. If you have any questions or concerns, please visit our website at http://www.elmousa.com or contact our technical support team.

Limited Warranty

ELMO warrants this product to be in compliance with its own plans and specifications, and to be free from defects in materials and workmanship under normal use and service for all parts, excluding the Hard Drives, for a period (or the equivalent) of three (3) years after the original purchase date. During this period, ELMO will replace parts at no charge; however, labor costs will be charged after one (1) year.

Hard Drive: Parts + Labor = 1 year warranty

Other Parts: Parts + Labor = 1st year only*

Parts: 2nd and 3rd year only

* N.B.: Compact (CP) units are warranted for only one (1) year, parts and labor.

This warranty excludes costs for initial technical adjustments (setup) which are the responsibility of the dealer from whom you purchased the unit. It also excludes damages due to misuse or neglect. Damages resulting from electrostatic discharge (ESD) will not be warranted. This warranty does not cover damages beyond ELMO's control. In no event shall ELMO be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation, operation or failure of this product. We, ELMO and its agents, are not responsible for viruses. Users should install anti-virus software on their DVR at their own risk. For more details on the limitations of this warranty, contact your distributor.

**For technical assistance, please call: 1-800-947-3566

To obtain service, please follow these steps:

1. Arrange for delivery of your equipment to: ELMO, 1478 Old Country Road, Plainview, New York, 11803, USA.
2. All shipments should be shipped prepaid, insured and properly packaged (preferably in the original packaging) and accompanied by a letter outlining the defect.
3. Supply your warranty registration, bill of sale, or other evidence of purchase date.

NOTE: The ELMO DVR must be used with an Uninterruptible Power Supply (rated at a minimum of 500 watts), with range protection. Failure to do so will void all warranties!

General

This product is the product of ELMO's advanced technology and has passed extensive reliability and compatibility tests. Copyright of this manual belongs to ELMO, and may not be reprinted or reproduced without prior written permission. If you need to modify or repair your system, we recommend that you contact a certified ELMO Dealer/Installer. Otherwise, the system warranty will be voided. Should you have any problems or questions with our product, contact your local ELMO Dealer/Installer. This product is certified for domestic and industrial use: CE certified for Europe, and FCC certified for the USA.

Precautions

Please avoid these conditions when selecting a location for your system:

- Excessive heat, such as direct sunlight or heating appliances
- Moisture, dust, and smoke
- Magnetic fields or electrical waves
- Below freezing temperatures
- Obstruction to system ventilation hole

Before installing this system, please ensure that:

- The power is switched off
- There is enough room for the system and its connecting cables
- The system is placed on an even surface
- The system is not placed near any electronic equipment. (For example, a microwave, radio, or any type of wireless equipment such as a telephone or cell phone)

Unpacking

To unpack your DVR, follow these steps:

1. Place the box on a flat, clean surface.
2. Remove the box by pulling and lifting the system up with both hands.
3. Place the system down carefully.
4. Read the User Manual thoroughly before installing your system.
5. Make sure all the parts listed below have been included:

Main ELMO DVR Server and Remote Software	ELMO DVR manual
Electrical cord for AC	Windows 2000™/ WindowsXP
Keys	Telephone cord
Keyboard	ELMO DVR control cable
Mouse	

Table 1. Required Items

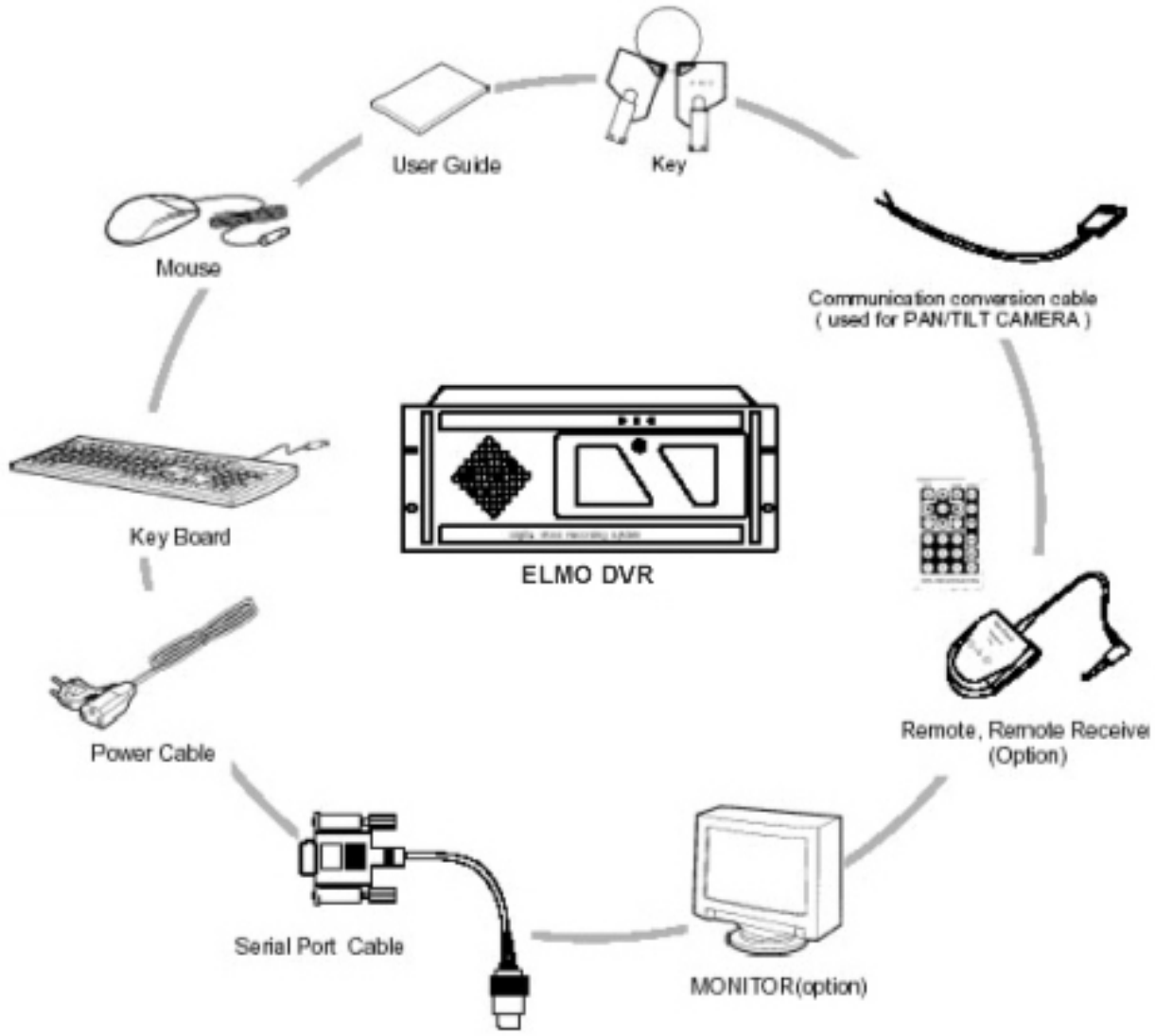


Figure 1. Required Items

ELMO DVR Back View

The following diagram displays the back of your DVR:

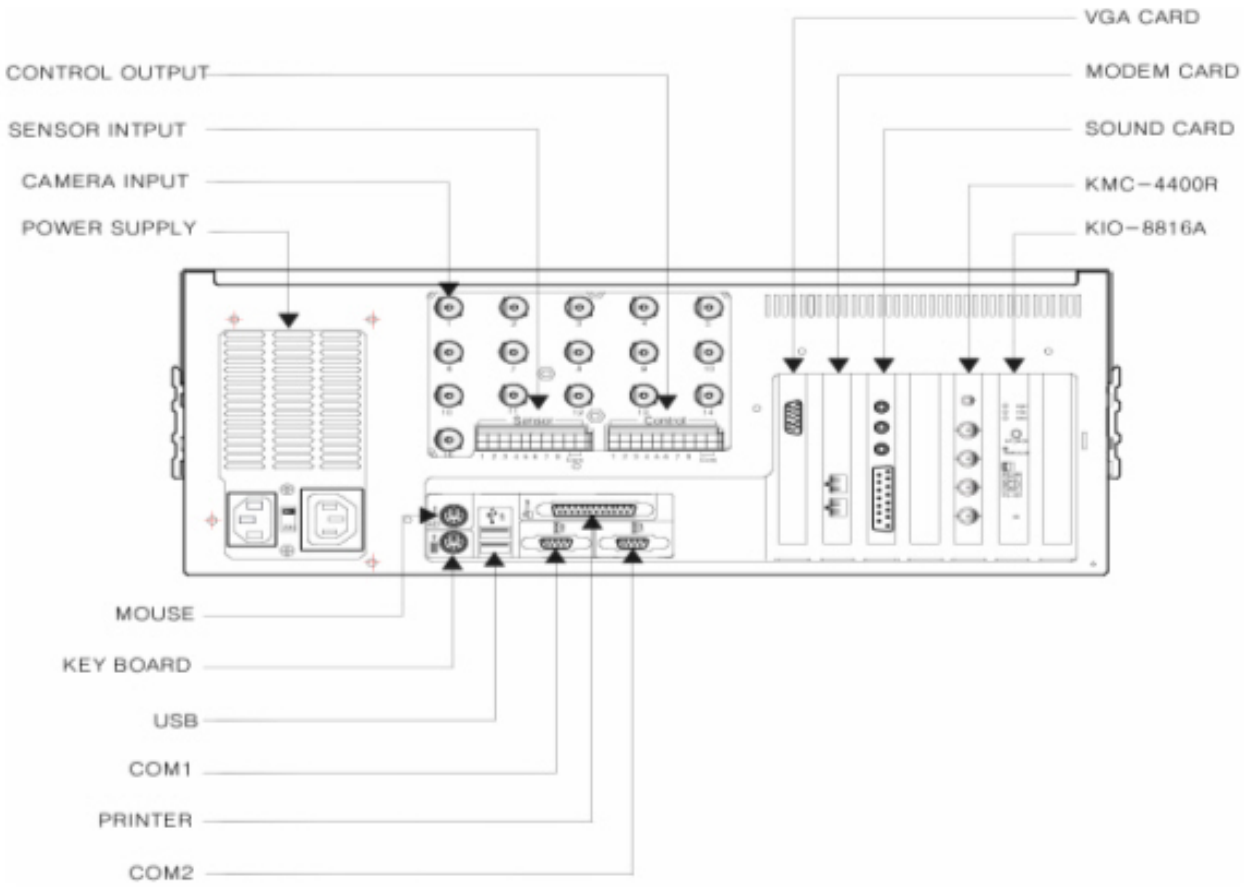


Figure 2. ELMO DVR Rear View

Connecting the Serial Cable

The following functions will not work if the cable is not connected:

- Sensor Function
- Control Function
- Pan/Tilt Function
- External Monitor Output

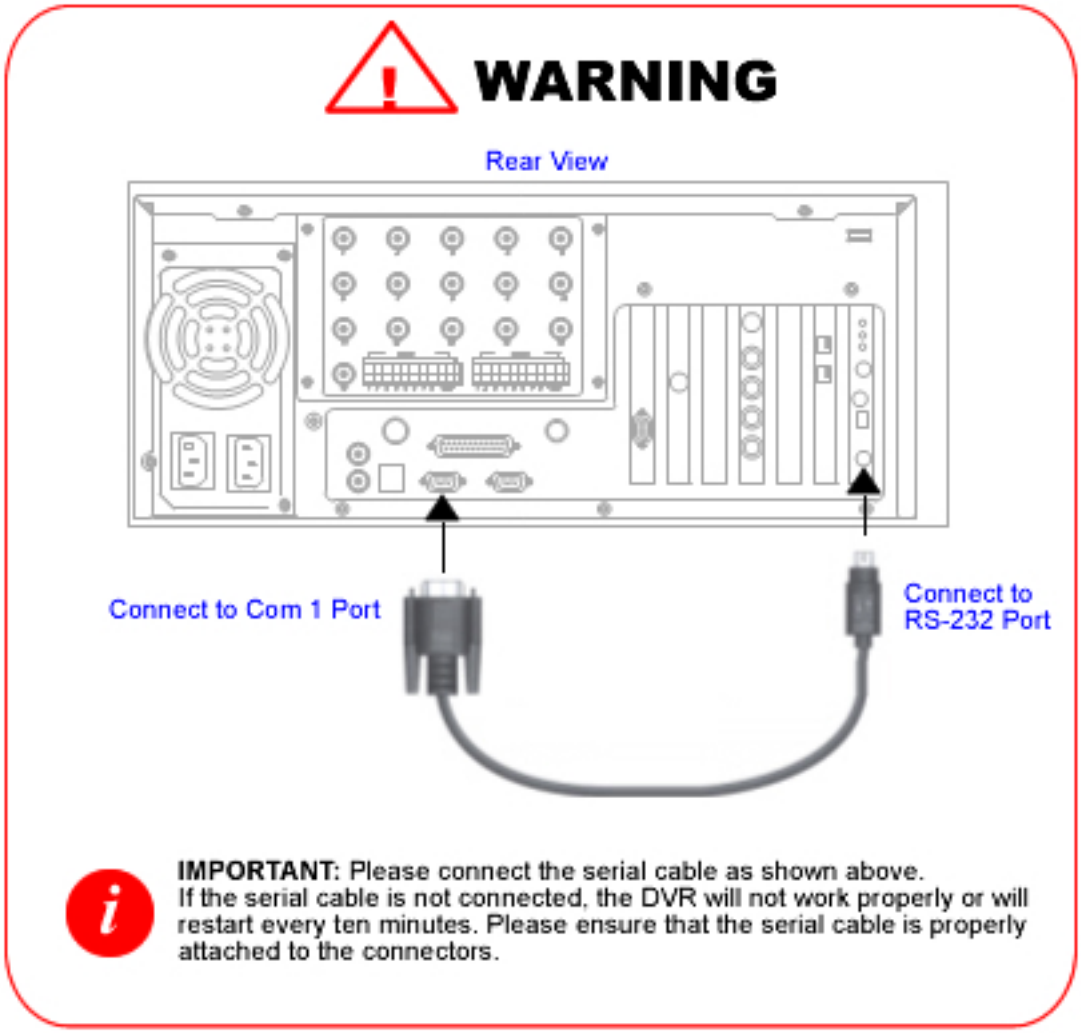


Figure 3. Serial Cable Warning

ELMO DVR SERVER

Starting your ELMO DVR Server

The installation process configures Windows to automatically start your DVR on start up. Alternatively, you can start the server by double-clicking on the ELMO Server icon on your desktop.

With Windows 2000™ and Windows XP™, you can also use our virtual keyboard to enter information. Simply click on the keyboard icon located on the lower right-hand side of your main screen.

Figure 4. Keyboard

User Accounts

When your server was installed, a default administrative user was automatically created. This user has access to all setup options and cameras. For security reasons, it is highly recommended that you change the password of this user and create other users with different levels of access.

If you have changed your default username and password and have forgotten what they are, please contact your local dealer for information on how to reset them.

Logging On to your Server

To log on to your server, follow these steps:

1. Click the Login button on the main screen. A Login window appears.
2. Enter your Username and Password .
3. Click the OK button or press Enter to continue.

For more information on creating or changing user privileges, please see Managing Users

Understanding the Main Screen

Overview

The main screen consists of the screen division buttons, camera indicators, and sensor and control buttons. In addition, you can use the main screen to log in or out, search recorded videos, and perform setup configurations. Finally, you can turn your server off on the main screen.

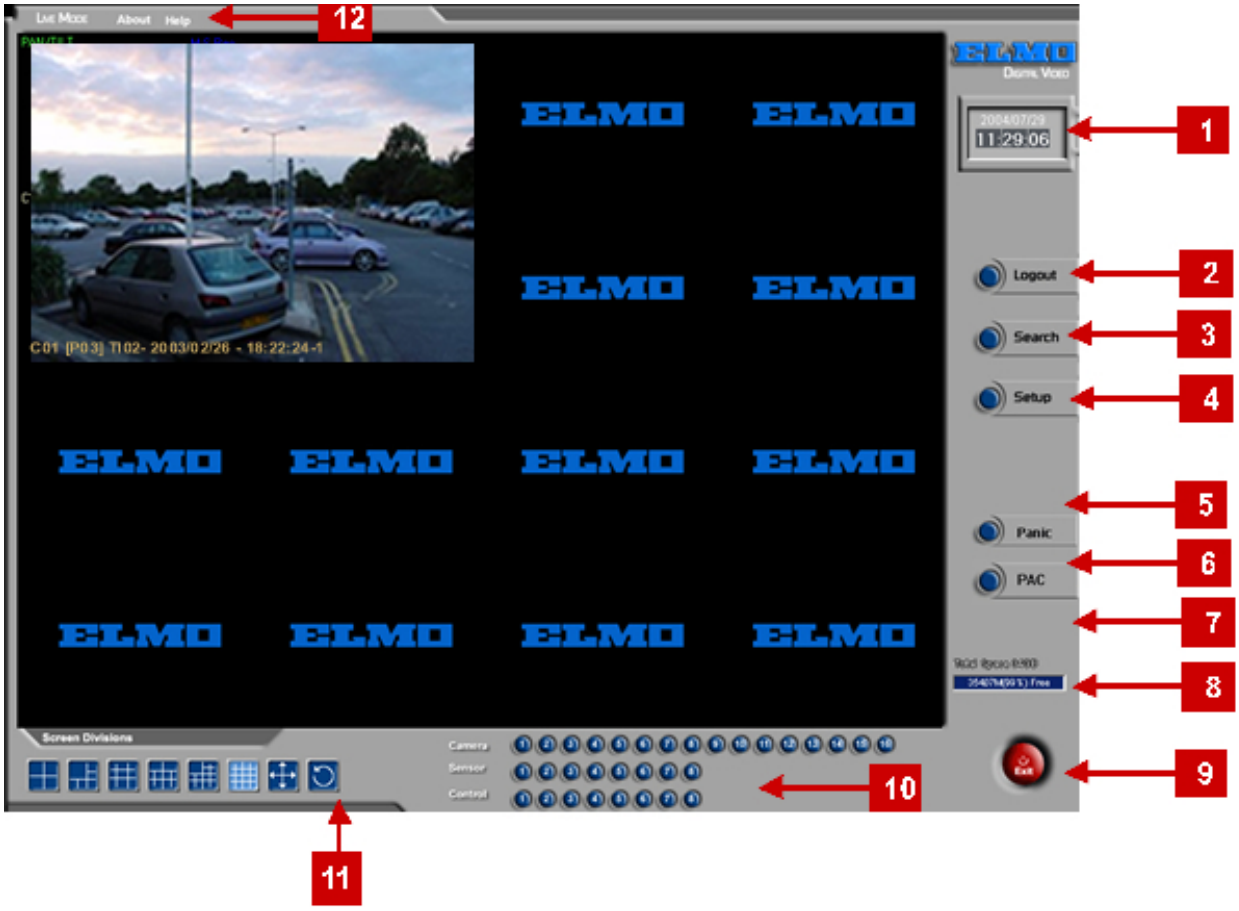


Figure 5. ELMO DVR Server Main Screen

1	Time and Date Displays the system's current time and date.
2	Login/Logout Displays a login prompt that allows you to gain access to view cameras, search, and change settings.
3	Search Displays a search screen which includes playback, search, and/or save file for backup by its date, time, and camera.
4	Setup Displays a setup window which includes settings such as hardware, motion, password, screen division, communication, system setup, server information, and POS Integration.
5	Panic Will perform Encrypted Backup of the previous five minutes to your local drive.
6	PAC PAC DM™ Software for searching POS and card access transactions and generating reports.

7	PAC Parser Setup templates and settings for POS and Card Access integration
8	Hard Drive/Memory Meter Displays the remaining hard drive space in the video storage partition(s) of the hard drive, and the available RAM of the system.
9	Power Shuts down your DVR.
10	Camera Sensor Indicates camera, sensor, and control activity.
11	Screen Divisions On a standard system setup there are 6 camera divisions available:4, 6, 9, 10, 13, and 16. Full screen mode (No interface shown). Rotate four cameras in a four division screen.
12	Help Launches the ELMO DVR Help Window.

Table 2. ELMO DVR Server Main Screen Features

CONFIGURING YOUR SERVER

Camera Setup

Overview

On the Camera Setup tab, you can specify the names of cameras, the sensor to be triggered for each camera, and the cameras that are to record if motion is detected. If the camera is a Pan/Tilt/Zoom (PTZ), you can also specify the type of camera.

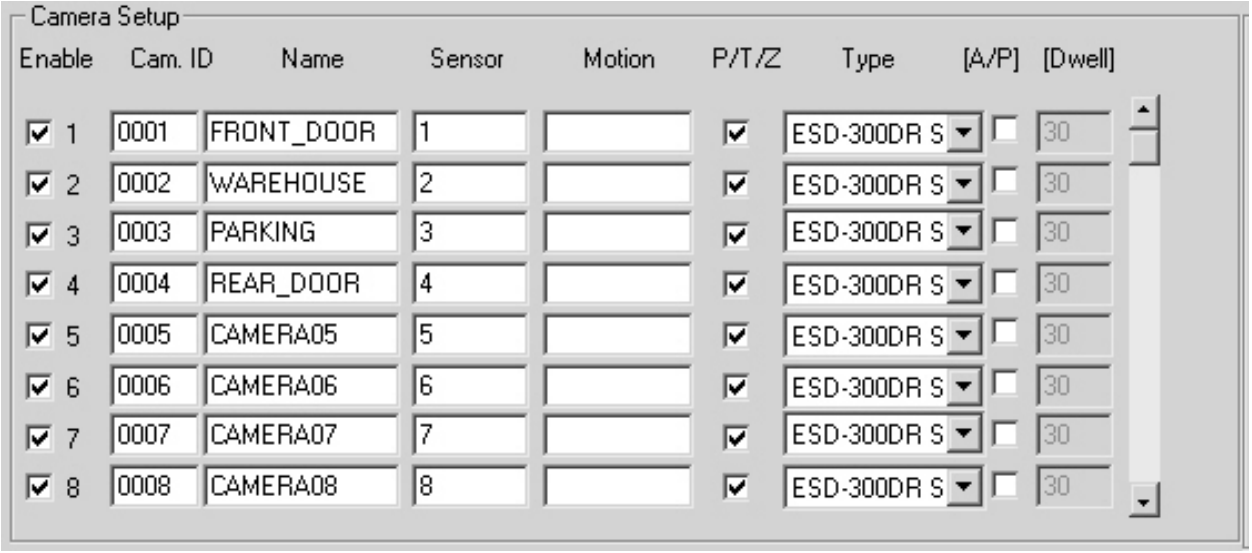


Figure 6. Camera Setup

Creating/Modifying Camera Settings

To create or modify your camera settings, follow these steps:

1. Select Enable on the camera that you wish to be enabled.

   This feature is NOT available on ELMO DVR Remote.

2. Enter a descriptive Name for each camera. The name has to have the following format: Camera ID-Name.
3. Enter the Sensor number(s) that will trigger the camera to record if it is set in Sensor Record mode and the sensor is activated.
4. Enter the camera number(s) that will record when motion occurs.
5. Select P/T/Z if the camera supports the PAN/TILT/ZOOM feature.

   This feature is NOT available on ELMO DVR Remote.

6. Select the Type of camera if the camera supports the P/T/Z feature.

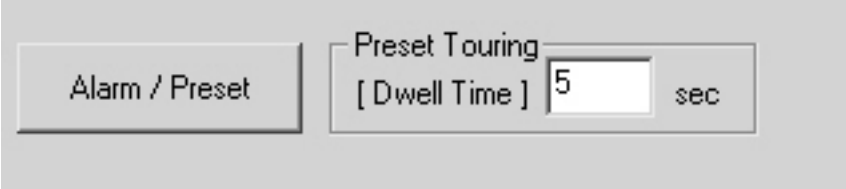
Related Topics: Sensor Setup | Control Setup | External Monitor | Motion Detection

Setting up dwell time for preset touring

When Preset Touring is setup for a PTZ camera, the time that the camera will remain at each preset is defined by entering the Dwell Time value on Hardware Setup page.

To setup the dwell time for preset touring, follow these steps:

1. Click Setup on the main screen.
2. Click the Hardware Setup tab.
3. Locate the Preset Touring section at the bottom of the Hardware Setup tab. See picture below:



4. Enter a desired Dwell Time.
5. Click Save to save settings.

Sensor Setup

Overview

Sensor setup is only applicable if sensors are available and are being used.

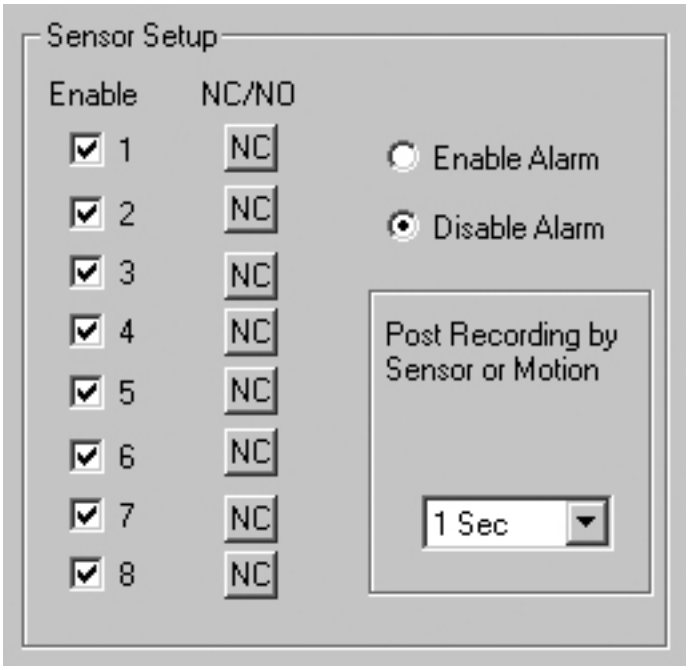


Figure 7. Sensor Setup

Setting up Sensors

To set up sensors, follow these steps:

1. Click Enable on the sensor you wish to activate.
2. Click NC/NO to select the type of sensor connection (NC - Normally Closed, NO - Normally Open).
3. Specify Post Recording amount if applicable.

NOTE: This feature is NOT available on ELMO DVR Remote.

Related Topics: Camera Setup | Control Setup | External Monitor

Control Setup

Overview

Control settings are applicable only if controls are available and are being used.

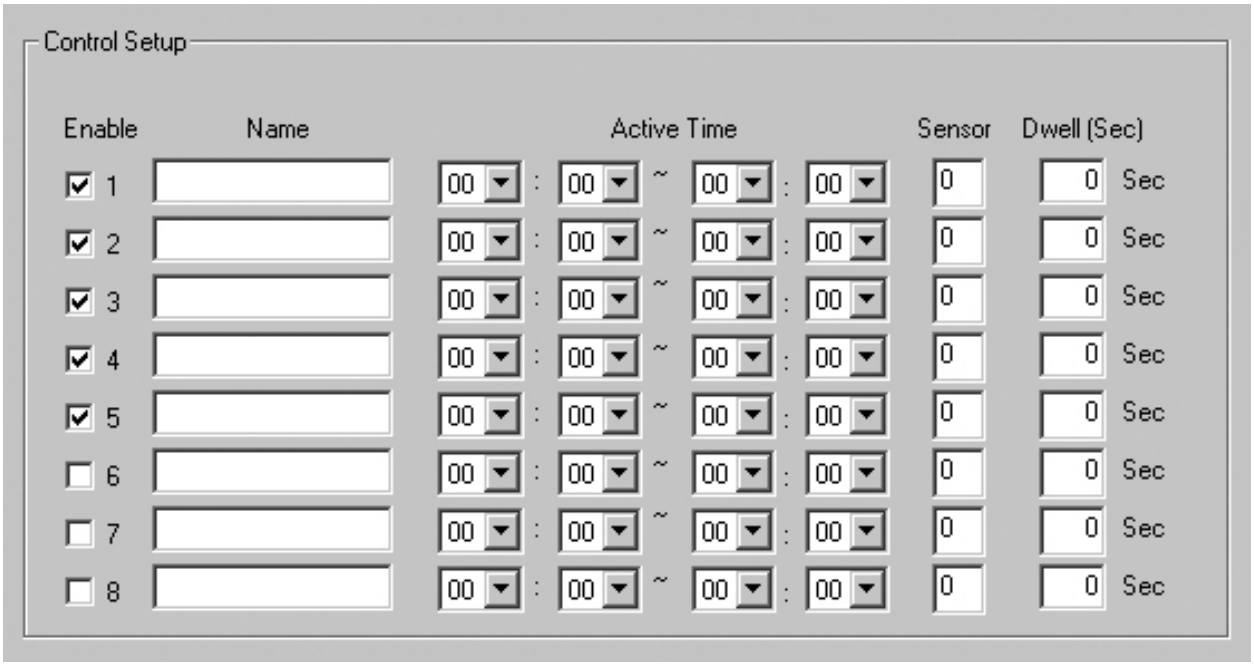


Figure 8. Control Setup

Active Time

Active time refers to the designated time when the control is active (default is continuous 00:00-00:00). If the sensor is triggered outside the specified time, it will be ignored.

Dwell Time

Dwell Time refers to the amount of time the control will remain active when it has been triggered.

Creating or Modifying Control Settings

To create or modify control settings, follow these steps:

1. Click Enable on the desired control.
2. Enter the Name of the selected control.
3. Set the Active Time for the control if required.
4. Enter the Sensor which activates the selected control. If more than one sensor will activate the control, use commas to separate the sensor numbers.
5. Enter the Dwell time for the control.

Related Topics: Camera Setup | Sensor Setup | External Monitor

External Monitor Setup

Overview

The External Monitor Setup tab allows you to view specified cameras on an external monitor. Cameras are displayed in sequence with a delay equal to the dwell time.

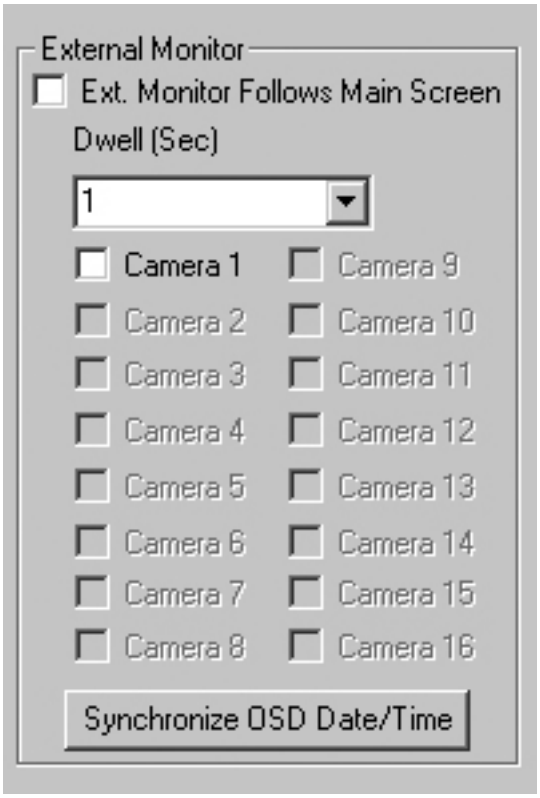


Figure 9. External Monitor

Dwell

Dwell refers to the interval (in seconds) between the display of each camera.

Setting up an External Monitor

To set up an external monitor, follow these steps:

1. Specify the Dwell time for the sequence.
2. Select the cameras you need in the sequence.
3. Click Save to save the setup settings.

Related Topics:Camera Setup | Sensor Setup | Control Setup

Motion Detection

Overview

On the Motion Detection tab, you can define up to five target zones for motion detection on each camera. Additionally, you can

set video options which affect all camera video displays and recording options.

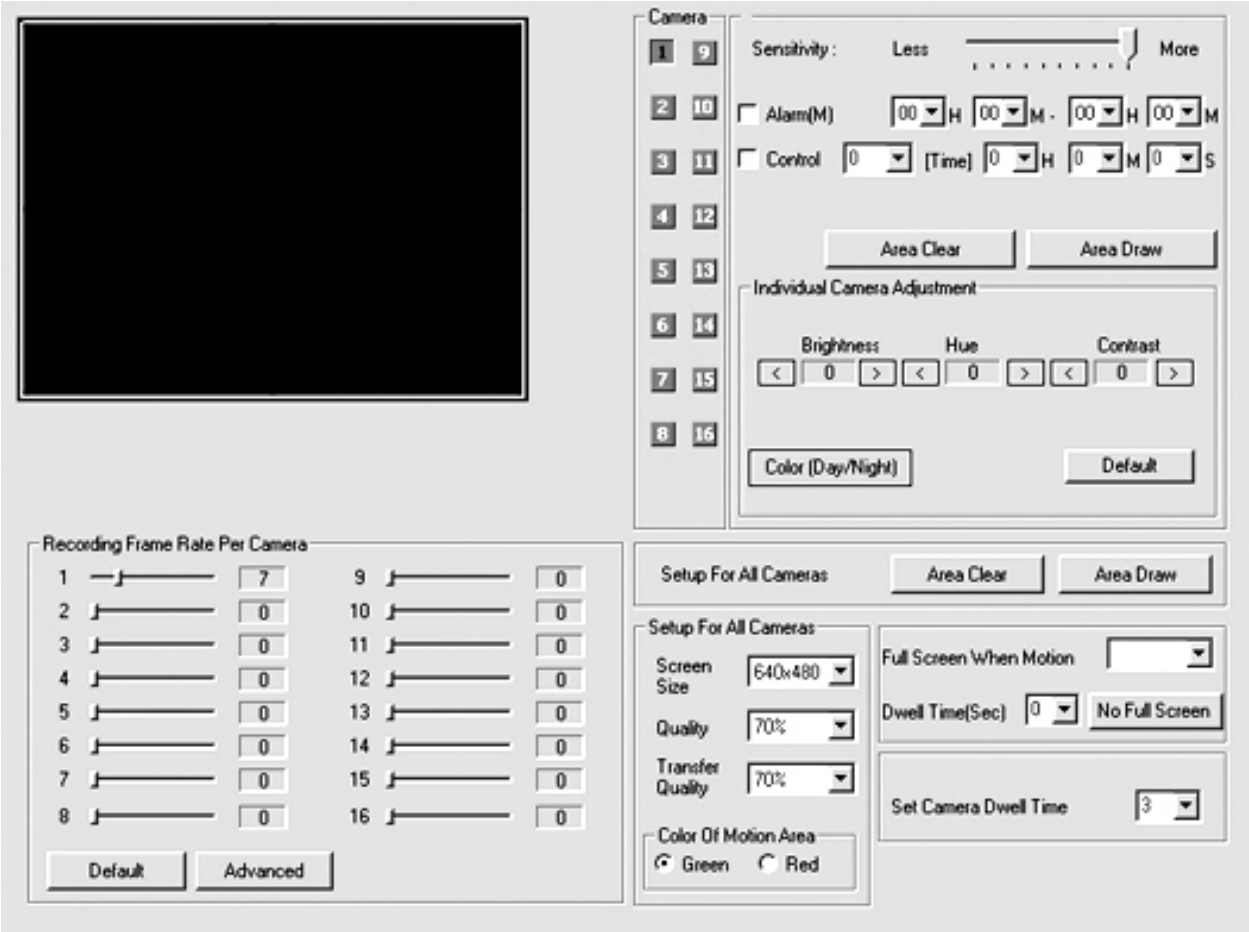


Figure 10. Motion Detection

Individual Camera Settings

- Sensitivity: Adjusts the sensitivity in the detection zone(s) by using the scroll arrow.
- Alarm: Triggers an audible indicator when motion is detected within specified zone(s)
  Control: If motion is triggered, the associated control will be triggered.
- Time: Dwell Time for the control feature.
- Area clear:Clears all detection zones for a selected camera.
- Area draw: Draws a detection zone covering the whole area for a selected camera.
- Brightness / Hue / Contrast: Adjusts the brightness, hue and contrast of the selected camera.
- Color or Day/Night:Sets the selected camera to record in color or black and white.

This feature is NOT available on Remote.

- Default:Returns to the default settings.

Recording frame rate per camera

- Each camera's recording rate (in frames per second - fps) is adjustable.
- Default : Sets all cameras to their default frame rate settings.
- If you increase the frame rate of a certain camera, the speed of the other cameras will be decreased to compensate.

Setup for all cameras

- Area Clear: Clears all detection zones for all cameras.
- Area Draw: Draws a detection zone covering the entire area for all cameras.
- Screen size: Sets screen size from 320 x 240 or 640 x 480.
- Quality: Sets image quality from 20% to 100%.
- Transfer quality: Sets the quality of the image transferred to the remote to between 20% and 100%.
- Color of motion area: Selects the color of the motion detection area in the display mode between green or red.
- Full screen when motion: Goes from multi screen to full screen when motion is detected on the specified camera(s).
- Set Dwell Time: Once selected, cameras will rotate through screens according to the dwell time specified on the main display page.

Setting up Motion Detection

To set up motion detection on a selected camera, follow these steps:

1. Select the desired camera.
2. On the video window, move the mouse to the start point.
3. Hold down the left mouse button and drag the mouse to draw a rectangular region (target zone). You can define up to five target zones.
4. Set the individual camera settings.
5. Click the Save button to your save settings.

Related Topics:Intelliguard

Managing Users

Password Security

After installation, your DVR automatically creates an administrative account. It is recommended that you change the password for this account or create new users with different levels of security.

Creating/Modifying Users

To create or modify a user, follow these steps:

1. Login as an administrative user.
2. Click Setup on the main screen.
3. Click the Password Setup tab.
4. Click the Add User button.
5. Enter the User Name and Password.
6. Confirm the Password.
7. Select the features you want the user to be able to access.
8. Click the Save button to save the newly created user.

Deleting an Existing User

To delete an existing user, follow these steps:

1. Select the desired user from the list of users.
2. Click the Delete button.

Schedule Setup

Overview

The Schedule tab allows you to schedule the recording time on their camera system according to the type of recording (continuous, motion, sensor, or pre-alarm).

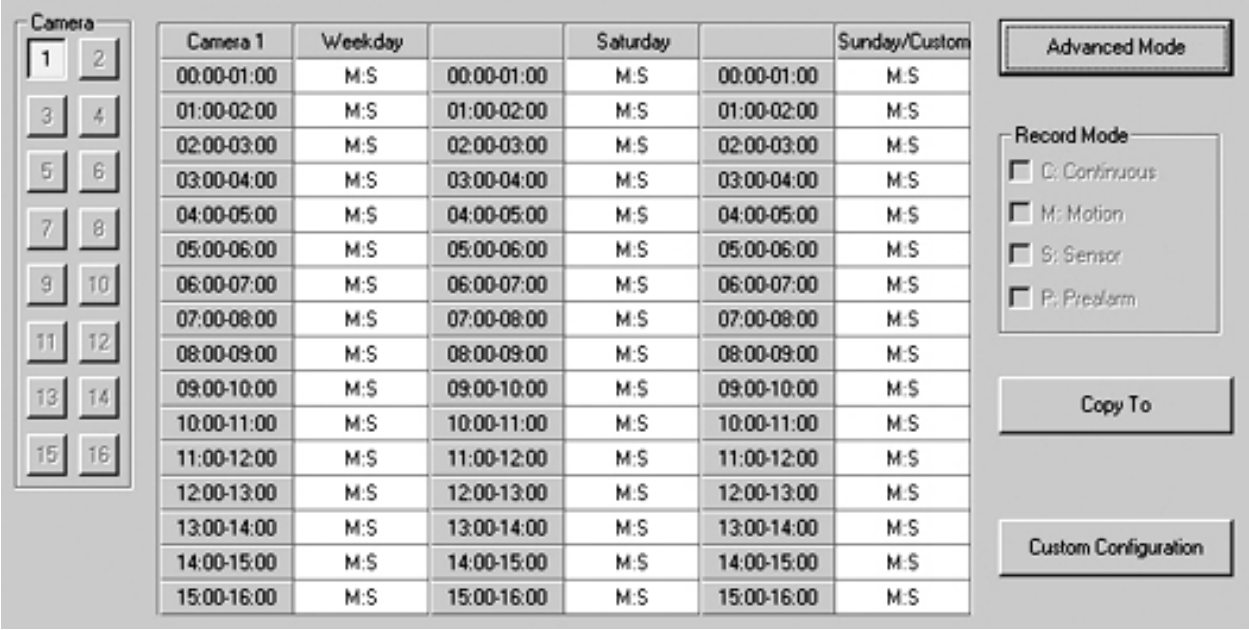


Figure 11. Schedule Setup

Copy To: Allows you to copy recording settings to one or all of the other cameras.

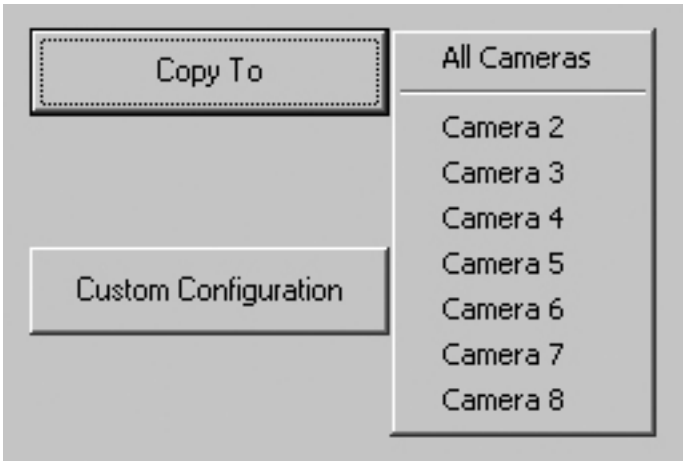


Figure 12. Copy To

Custom Configuration: Allows you to select a specific date you would like to program your recording to. For example, you may not want continuous recording on a holiday. On this screen, you can also select the option of having the holiday setting "rotate" or repeat itself on a weekly, monthly or yearly basis. The default setting is Motion Sensor.

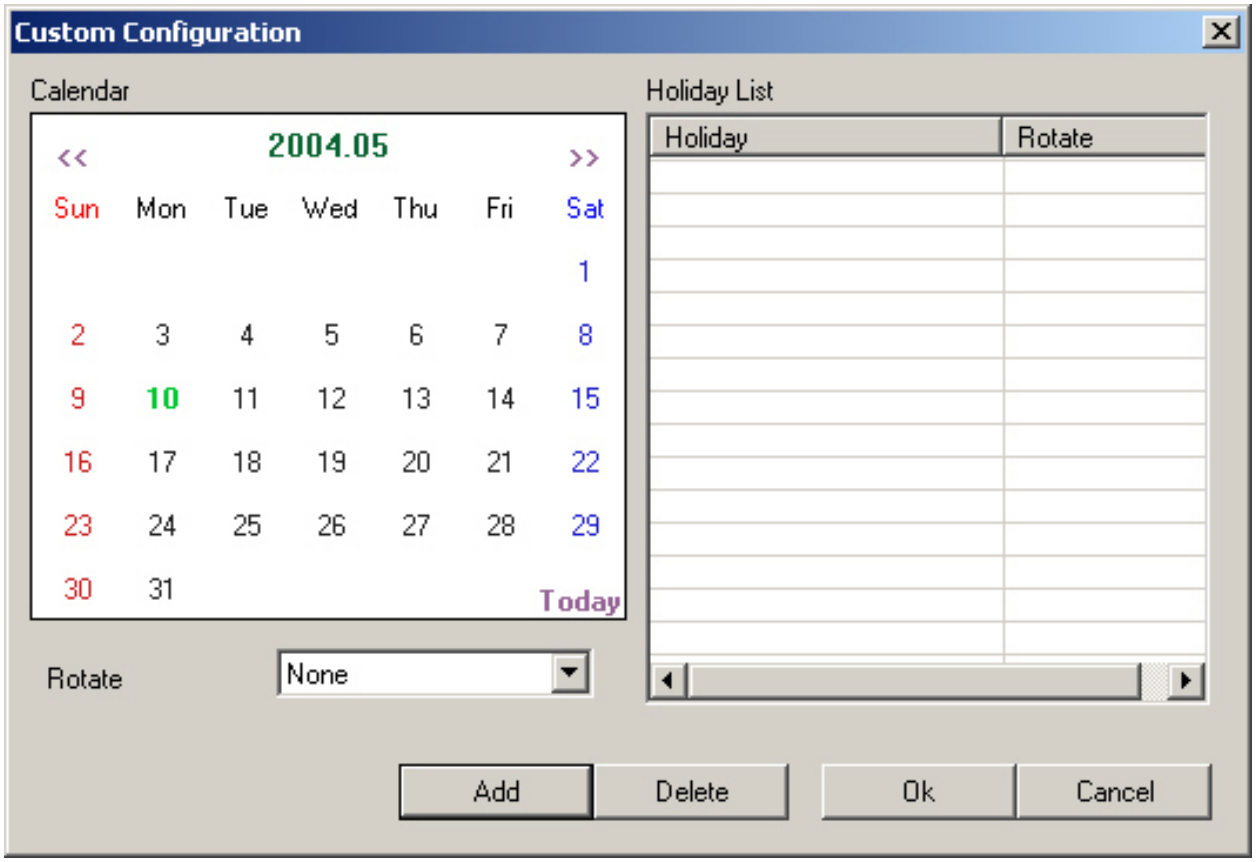


Figure 13. Custom Configuration

Setting up Scheduling

To set up scheduling, follow these steps:

1. Select a camera to start scheduling the time for recording.
2. Set the Calendar parameters. To set the recording times in Simple mode: weekend, Saturdays, and Sundays/Custom (the time/hour settings will remain the same)

    a. Camera: Click on the desired camera to enter recording settings

    b. Weekday: Set the recording mode for the weekday (C-continuous, S-sensor, M-motion, P- pre-alarm)

    c. Saturday: Set the recording mode for Saturday (C-continuous, S-sensor, M-motion, P- Pre-alarm)

    d. Sunday/Holiday: Set the recording mode for Sunday and for holiday(s)

3. Set the Record Mode:

    a. Continuous: Check for continuous recording. If this function is selected, all other recording settings will be cancelled.

    b. Sensor: Check to have sensor-activated recording.

    c. Motion: Check to have motion-activated recording.

    d. Pre-Alarm: Check to have camera record five seconds before and after motion is detected.

4. Click Save to save settings.

Screen Division

Overview

On the Screen Division tab, you can configure the number of cameras that are displayed on the main screen and select which cameras are to be shown on the large screen.

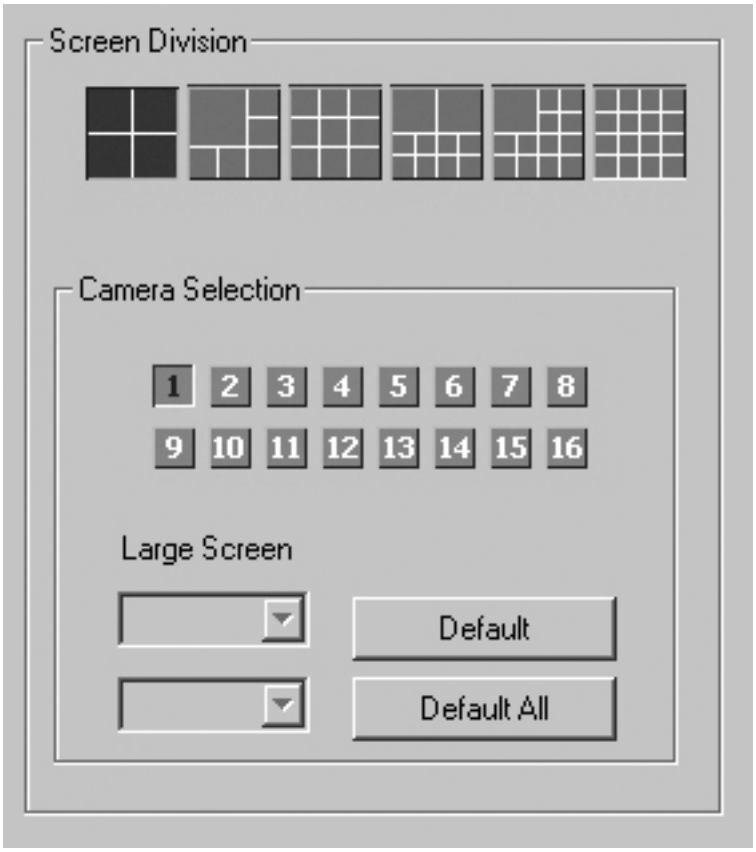


Figure 14. Screen Division

Default: Change to default settings for the selected division.

Default all: Change to default settings for all divisions available.

Setting your Screen Division

To set your Screen Division, follow these steps:

1. Select your desired division (4, 6, 9, 10, 13, or 16).
2. Select the cameras to be placed on the screen division.
3. Select the camera to be displayed on the Large Screen . You can select the larger screens for magnification among the 6, 10, and 13 divisions.

Communication

Overview

The Communication tab allow you to use your DVR to send alerts whenever a sensor is triggered.

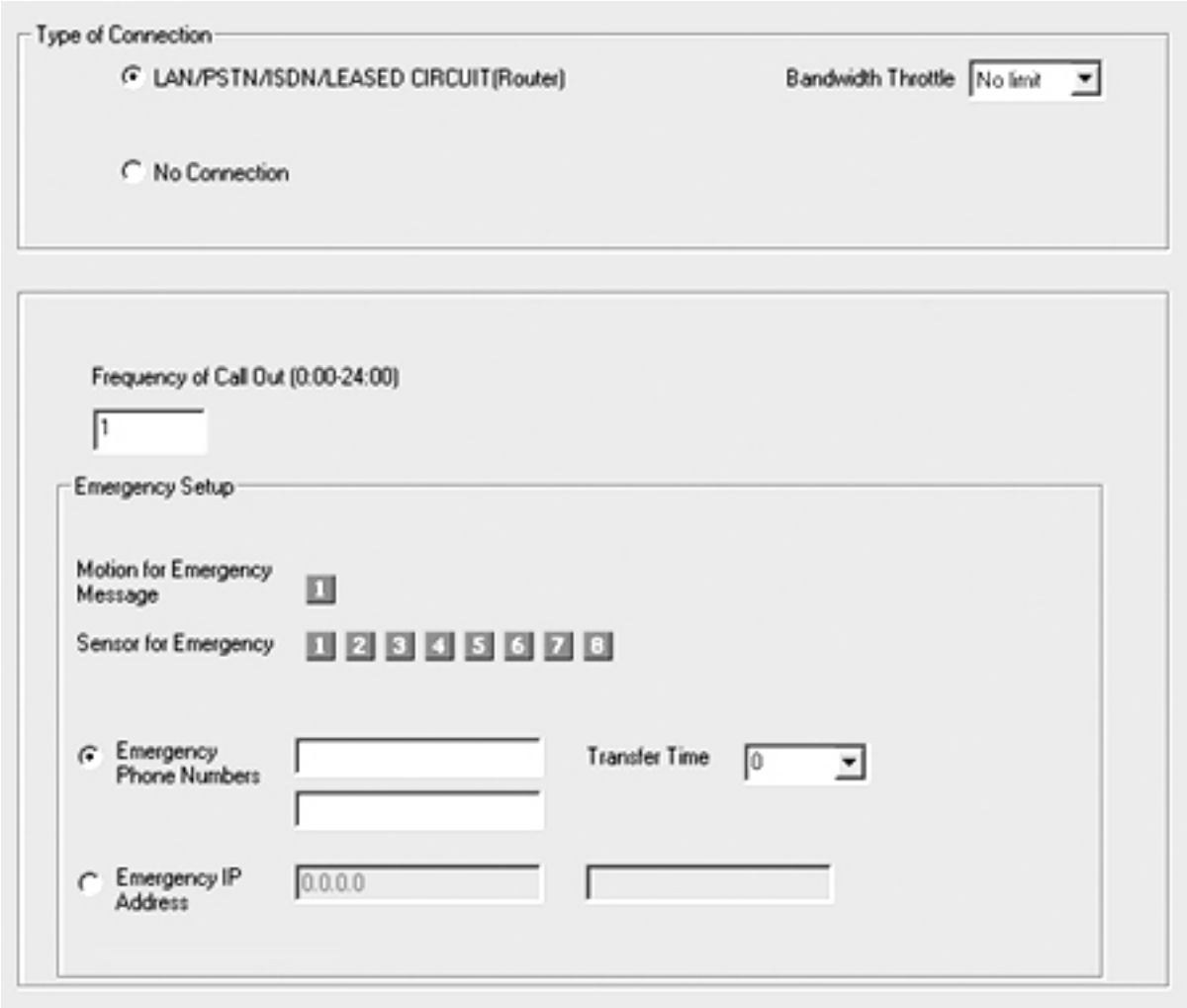


Figure 15. Communication

Type of Connection : Specifies whether or not a connection is allowed.

Bandwidth Throttle: Allows you to control the bandwidth of the data transferred over the network.

Frequency of Call Out: Determines how many times per day to transmit alerts.

Sensor for Emergency: If the sensor detects any signal during the designated time, it will send an alarm to the remote software, with the captured image. You can assign the external sensor numbers.

Emergency Phone Numbers The first number is the number to dial for all emergency communication. The second number is a backup number in case the first one fails.

Transfer Time: The time in seconds before the transmission begins, after the selected sensor is triggered. If any other signal is detected during the transfer, the DVR will transmit the image again.

Sending an Alert via Telephone

To send an alert via telephone, follow these steps:

1. Select LAN/PSTN/LEASED CIRCUIT (Router)
2. Select the Bandwidth Throttle
3. Enter Frequency of Call Out

4. Select Motion for Emergency
5. Select the Sensor for Emergency
6. Enter the Emergency Phone Number and an Alternate Phone Number .
7. Enter the Transfer Time .
8. Click Save to save your settings.

Sending an Alert via another DVR Server

To send an alert to another DVR server, follow these steps:

1. Select LAN/PSTN/LEASED CIRCUIT(Router).
2. Select the Bandwidth Throttle.
3. Enter Frequency of Call Out.
4. Select Motion for Emergency.
5. Select the Sensor for Emergency.
6. Enter the Emergency IP Address .
7. Enter an Alternate Phone Number.
8. Enter the Transfer Time .
9. Click Save to save your settings.

Server Information

Overview

The Server Information tab allows you to set or get information about your server.

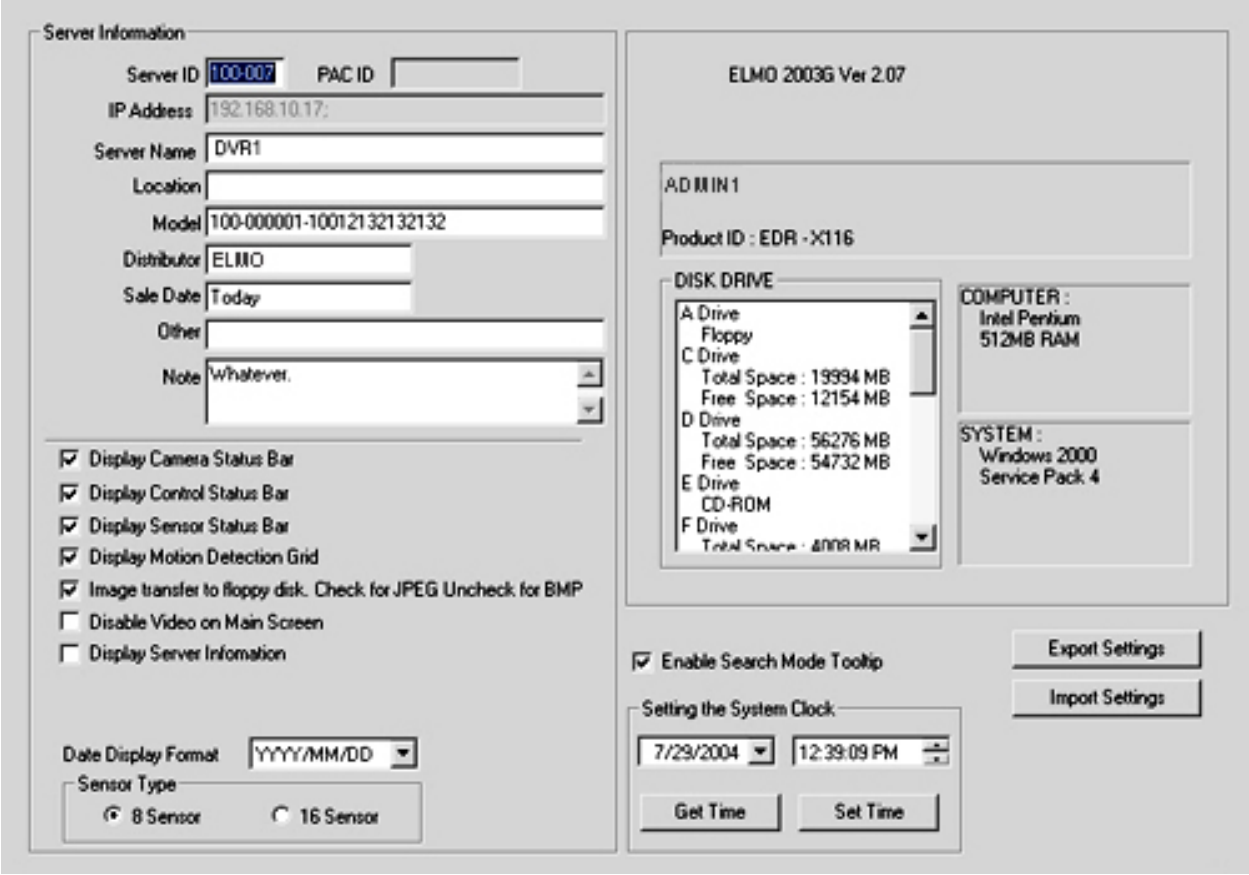


Figure 16. Server Information

Server Information:Enter the ServerID, location, model, version, distributor, and the purchase date. It is important that you enter the ServerID and also remember its code for remote viewing. (When you try to connect to the server from a remote location, the system will check the server ID code and password together. If either the code or the password is incorrect, you will be disconnected from the server.)

Display Camera Status bar: Displays camera status bar on main screen.

Display Control Status bar: Displays control status bar on main screen.

Display Sensor Status bar: Displays sensor bar on main screen.

Display Motion Detection Grid: Displays motion detection grid when cameras are recording in motion mode on the main screen.

Image Transfer to Floppy Disk: If you select this function, the DVR will store the data in JPEG mode. If you don't select this function, it will save the image in BMP format.

Disable Video on Main Screen: Will not show video on the main screen (it is hidden).

Disable Server Information: When unchecked, will not display the server information on the main screen.

Date Display Format: Allows you to format how time is displayed. Select the type of display you want.

Sensor and Control Type: Select '8 SENSOR' to use eight sensors, and '16 SENSOR' to use sixteen sensors. Proper number of sensor buttons will be displayed in the Surveillance mode when you chose 'Sensor Type'. You will be able to see the proper number of buttons in 'Hardware Setup' and 'Communication Setup'.

Tooltips:Tooltips are shown automatically in search mode.

Export Setting: Export settings to folder to be used in the future.

Import Setting: Import settings previously exported from this Setup page.

Setting the System Clock: Adjust server for Daylight Savings Time.

Audio Settings

Overview

Audio recording is available with your DVR if a sound card is installed. After enabling audio recording on a camera, the system microphone's sound data will be recorded together with the video data. The sound data will be recorded as soon as the video signal starts recording. It will not be recorded if the video data is not being recorded at the same time.

Figure 17. Audio Settings

Enable Audio Playback : If a channel has audio playback enabled, you should hear the recorded audio when recorded video is being played back.

Audio Recording Disabled: Audio recording is disabled if your system does not have a sound card installed, or if your sound card has not been detected.

Enabling Audio Recording

To enable audio recording on cameras, follow these steps:

1. Select the camera you wish to enable audio recording on.
2. Click Enable Audio Recording.

Enabling Audio Playback

To enable audio playback on cameras, follow these steps:

1. Select the camera for which you wish to enable audio playback.
2. Click Enable Audio Playback .

System Setup

Overview

In the System Setup tab, you can set the scheduled time that the server should restart. Additionally, you can enable watermarking features, configure backup schedules, easy updates, and configure a joystick keyboard.

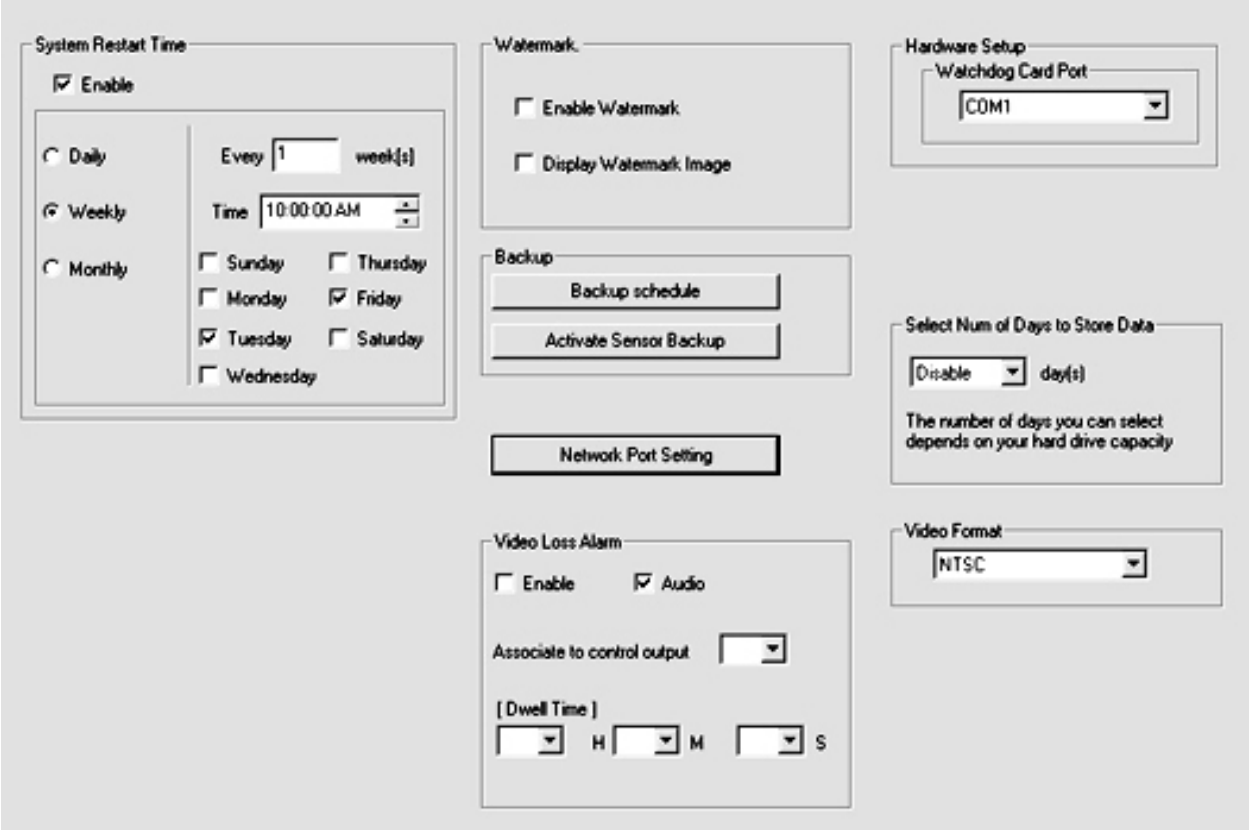


Figure 18. System Settings

System Restart Time: Sets the time (weekly or daily) when the system will be automatically rebooted. To activate this option, please check the box next to the desired day and select the appropriate time.

This feature is NOT available on ELMO DVR Remote.

Watermark: Clicking Enable Watermark allows you to authenticate a Watermark onto an image.

Display Watermark Image: This will or will not display the Watermark on an image. If you click on this option, the image will have a Watermark authentication image.

Backup Settings: Used to set a schedule for running backups. See the topic Remote Backup for more information on remote backup.

Activate Sensor Backup: If a sensor is tripped, an encrypted backup will be performed to CD. This feature is similar to the Main Screen Panic Button feature.

This feature is NOT available on ELMO DVR Remote.

Network Port Setting: Changes network connection ports for ELMO DVR Server.

This feature is NOT available on ELMO DVR Remote.

Video Loss Alarm: When there is Video Loss, the following will occur:

a. Alarm one will sound on the PC speaker

b. Enable control will activate the associated control

c. Audio-2

d. Set Email will send an email when there is video Loss

Dwell Time: Associated with Enable control and Alarm used

Hardware Setup

Watchdog Port: Watchdog serial Cable Communication Port

This feature is NOT available on ELMO DVR Remote.

Select Num of Days to Store Data: Will only store video for this period of time.

Video Format : Choose between NTSC and PAL.

Enabling Video Loss Alarm

To enable video loss alarm, follow these steps:

1. Click Enable Alarm .
2. Click Enable Sound if you need to activate an audible alert.
3. Select the Control No. to be activated when a video signal is lost. This control must be activated in Hardware Setup.
4. Set the Dwell Time for which the sound will be active.

Intelli-Zone™

Overview

Intelli-Zone™ is a feature that allows the camera to intelligently pan, tilt, or zoom to a specified preset. The ELMO DVR server will automatically detect if that camera has P/T/Z features and adjust the pan, tilt, or zoom where applicable. Intelli-Zone™ does not provide real-time tracking. Instead, it offers a simulated tracking technology.

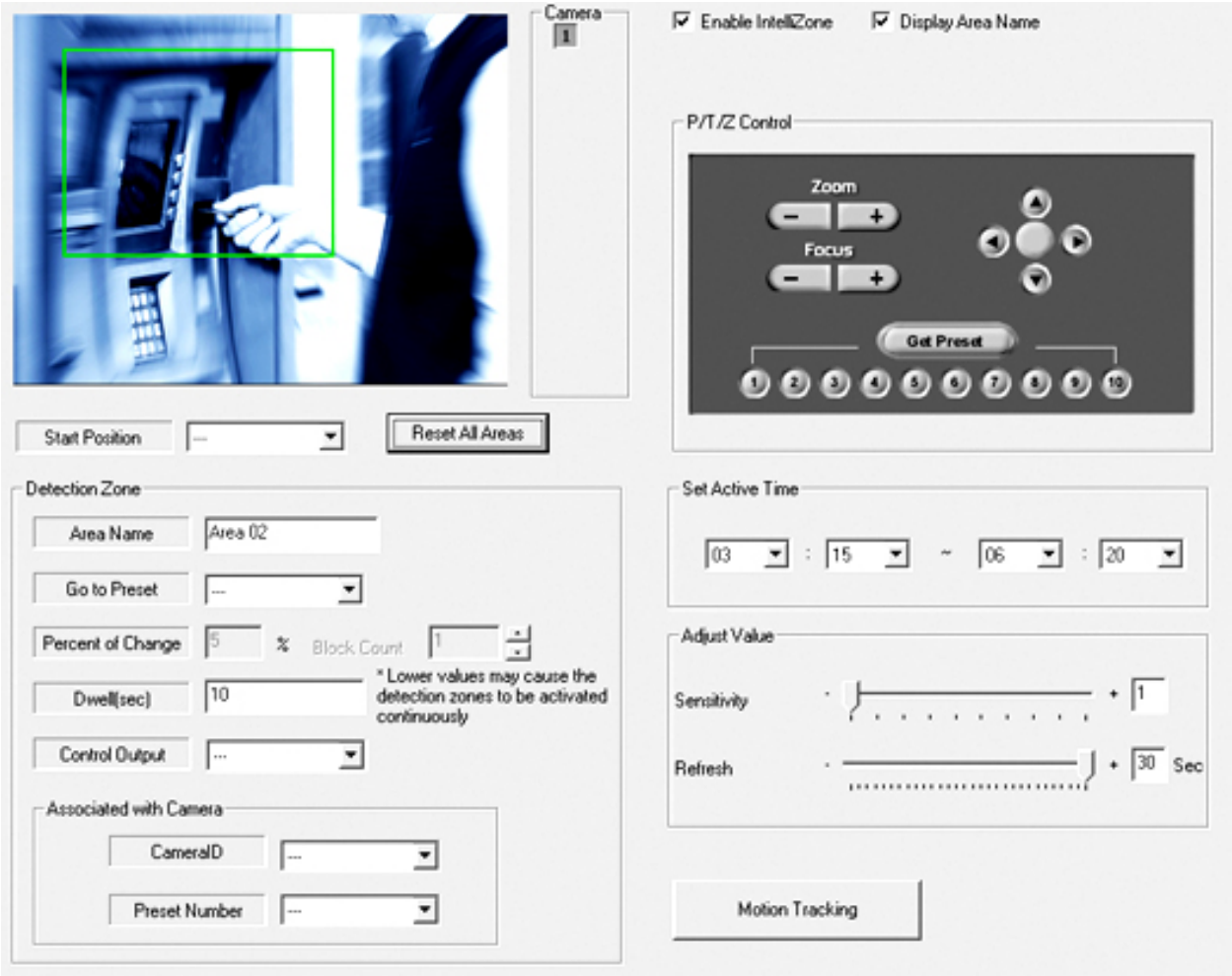


Figure 19. Intelli-Zone™ Setup

Setting up Intelli-Zone areas

To Setup Intelli-Zone follow these steps:

1. Select the Intelli-Zone tab from the setup window.
2. Specify camera on which you want to setup Intelli-Zone.
3. Click Enable Intelli-Zone.
4. Define P/T/Z Control Presets 1 - 10. You can also use the presets defined in the PTZ mode on the main screen.
5. Create a target zone.
6. Select the Start Position's preset. This is the position the camera will return to after the specified dwell time.
7. Select the Go to preset. The camera will move to this position when motion is detected.
8. Enter the Dwell Time. This defines the delay time before the camera returns to the Start Position.
9. In the section Start Position, select the camera name.
10. Specify the Active Time to enable Intelli-Zone on this camera.

Storage Structure

Overview

The Storage Structure tab shows which disk partitions are allocated for video storage. It also gives allows you to modify the storage structure. Allocation is not allowed on C or D drives.

The Storage Setup tab is NOT available on ELMO DVR Remote.

Modifying Storage Allocation

To modify storage allocation, follow these steps:

1. Click the Modify Storage Structure button. The window below appears.

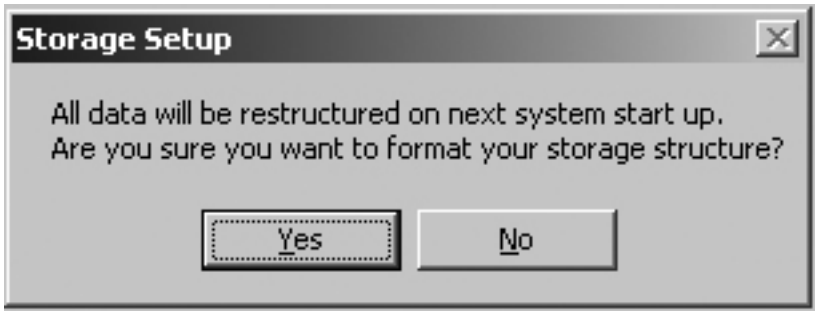


Figure 20. Storage Setup

Click Yes to restructure the storage structure the next time the server reboot.

2. Click Close Setup.
3. Restart the server .
4. When the server restarts, the Storage Structure dialog box shown below appears.

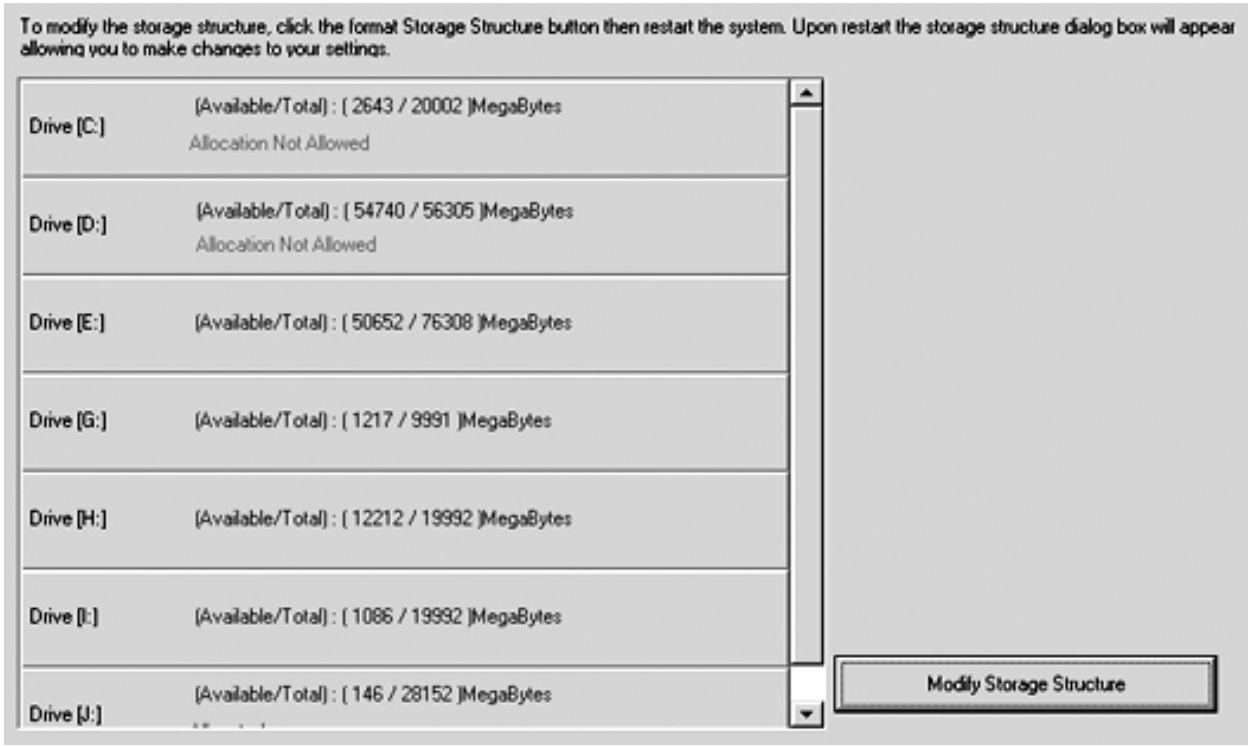


Figure 21. Storage Structure

5. Click Allocate on the drive you wish to format.
6. Click Proceed to start the allocation process. The Format confirmation window appears:

7. Click Yes to proceed with formatting. The Select file system window appears:

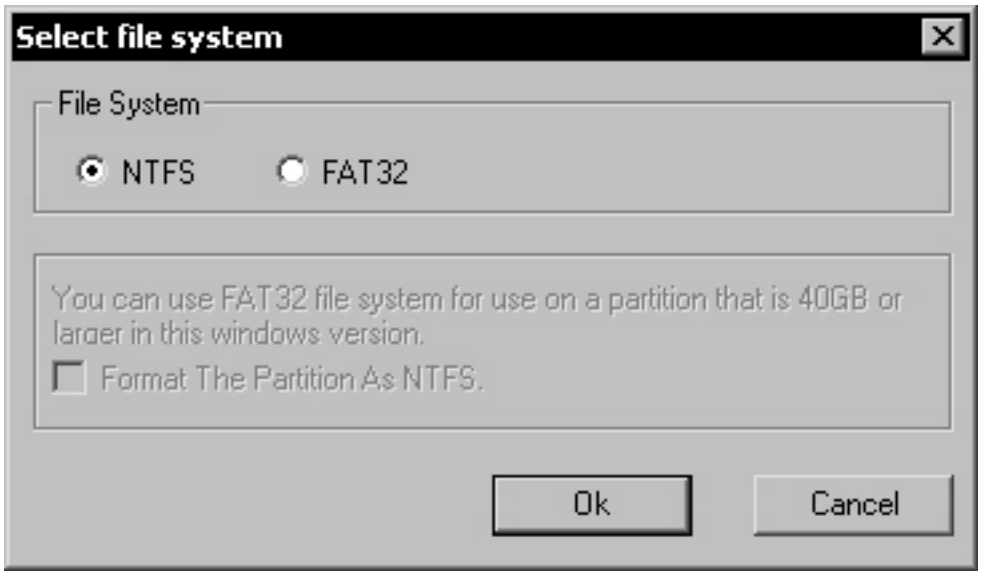


Figure 22. File System Types

8. Ensure that NTFS is selected for more security or FAT32 for normal security.
9. Click OK . Once allocation is complete, the server will start normally.

E-Map

Overview

The E-Map tab is used to lay out cameras on a map. For example, if you have a drawing of your building, you can lay out cameras in the location where you know a camera is installed. In live mode, you can then select the camera from the map and your DVR server will display that camera alone.

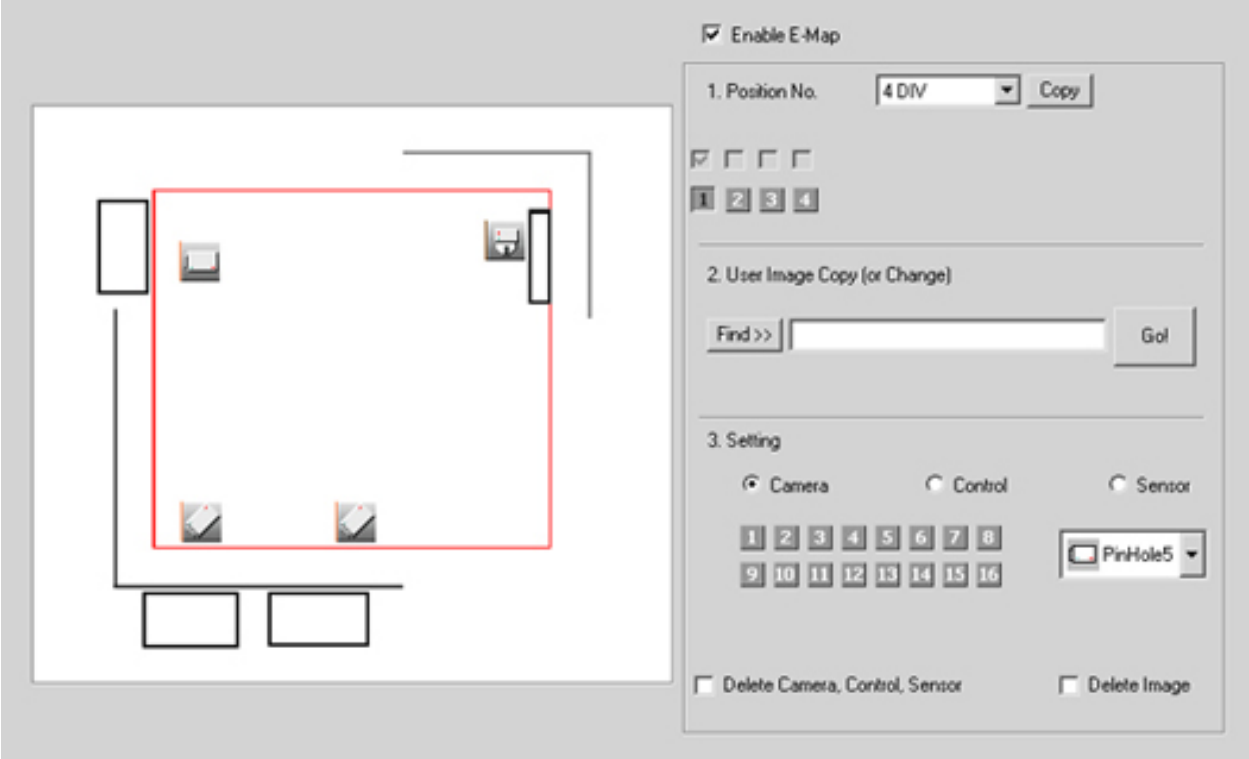


Figure 23. E-Map

Enabling E-Map

To enable E-Map, follow these steps:

1. Click Enable E-Map to activate the E-Map on the main screen.
2. Select the Position No. of the desired position of the specified Screen Division in which the E-Map will appear.
3. Click Find > to select a bitmap to load into the E-Map.
4. Click Go to copy the selected image to the drawing area.
5. Select the camera Setting to set the position of the cameras, controls, and/or sensors
   a. Camera : Select the camera, then click the desired position for the camera on the E-Map.
   b. Control : Select the control, then click the desired position for the control on the E-Map.
   c. Sensor : Select the sensor, then click the desired position for the sensor on the E-Map.
6. Click Save to save the setup settings.

Deleting Cameras from E-Map

To delete cameras drawn on the E-Map, follow these steps:

1. Click the Delete Camera, Control, Sensor checkbox.
2. Click the camera, control or sensor you want to delete.

View Log Records

Overview

Each user activity is saved in log files. These are viewed through the view log window. You can view logs that have been saved on a daily basis. In addition, can also export logs to a text-based file.

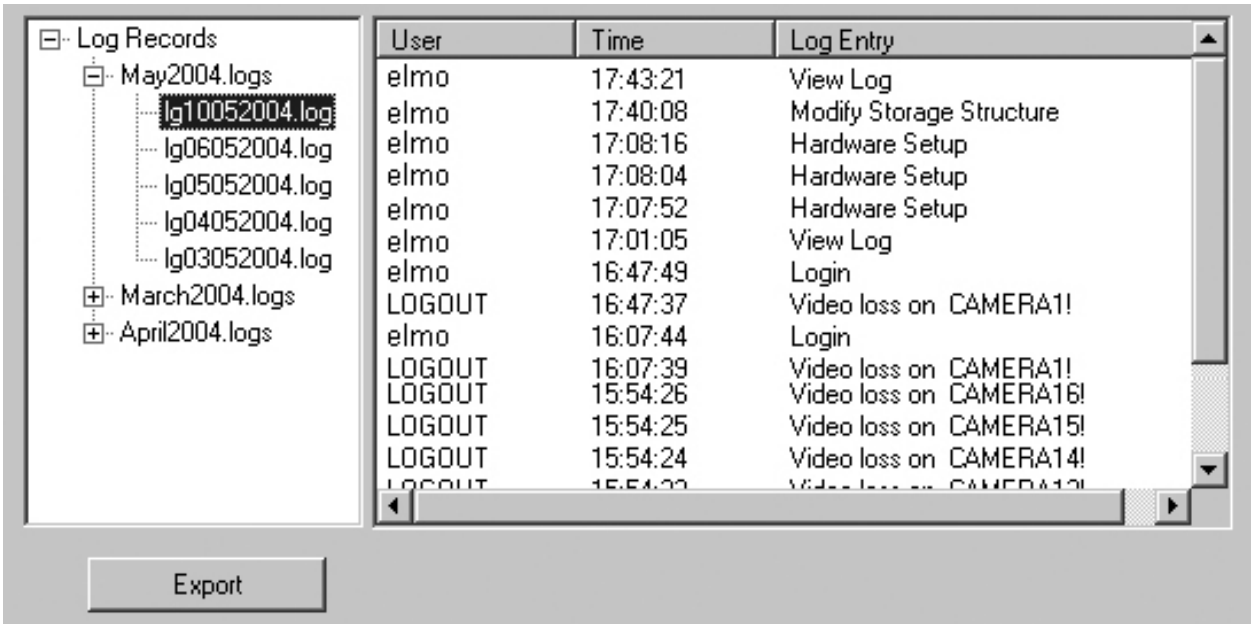


Figure 24. View Log Records

Log Record Navigation : It is possible to browse logs at several levels:

- View records per day: Allows you to view all the logged activity in a given day.

Navigating through your Log Records

To navigate through your log records, follow these steps:

1. Click the plus sign (+) next to 'Log Records' to view the months that have been logged.
2. Click the plus sign (+) next to the desired month to view all entries for that month.
3. Select the log filename to view a particular day, or click the plus sign (+) next to the desired day to browse by username.
4. After selecting a day or username, the relevant logged activity will appear in the right hand pane.
5. Click Export to export a log to a text file.

Intelli-guard™

Overview

The Intelli-guard feature can be used to monitor the camera view within a defined area. Any changes in the defined area will trigger an alarm response through email or in a telephone message.

Figure 25. Intelli-guard

Individual Camera Adjustment: Adjusts the video brightness, hue, and contrast for each camera.

Background Refresh Time: If Intelliguard detects no changes in the monitored area, it will update the area picture after every reload time period. This will decrease the cumulative image difference caused by time. By default, this value is set to 20 seconds. It can be adjusted from 1s to 1800s. If you don't want it updated, check Never update background .

Detection Size: This parameter determines the size in pixels of the object that may cause the alarm to be set off. Decrease the detection size to make the Intelliguard detect only small size objects. Increase the detection size to detect only larger size objects and omit the smaller ones.

Detection Sensitivity: Sets percentage of pixel change required to trigger detection.

Sound Wave File: Audio file to play when motion has been detected by Intelli-Guard.

Duration of Sound Wave: Length the sound file plays for.

Count: Shows you a tally of detected motions

Email

Overview

You can send an alert via email when a sensor is triggered, or when a video signal has been lost. You can also send the status of the server by sending a screen shot from a specified camera.

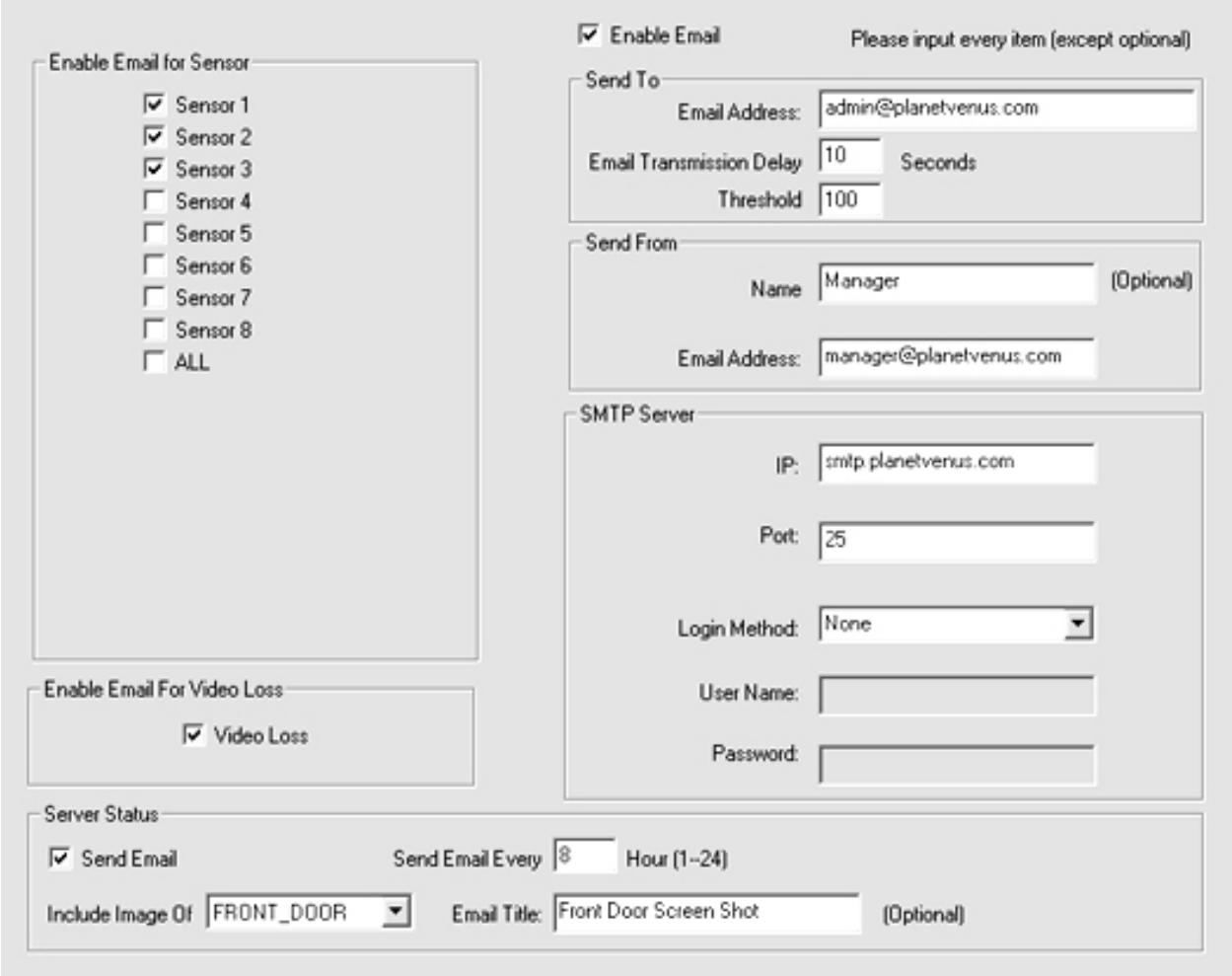


Figure 26. Email

Email Transmission Delay: This sets the delay time before the transmission is started after a sensor has been triggered.

Threshold: This value sets the number of lines to be included in the emails sent per day.

SMTP Server: Depending on your location, each Internet provider has specific SMTP information.

IP: The IP Address of the SMTP server. Example: smtp.bellnexxia.net

Port: Usually you do not have to change this. This is a default port for most SMTP servers. For more information on Port defaults, please contact your email account manager.

Logon Method: "None" is a default method; otherwise, please contact your email account manager.

User name and password:Some Internet providers require user names and passwords to send out emails, if this is the case, please enter accordingly.

Sending Alert Via Email (Sensors Triggered)

To send an alert via Email when sensors are triggered, follow these steps:

1. Click Enable Email to activate the email function.
2. Select Sensors. Sensors must be preset in the Hardware Setup prior to activation.
3. Click Video Loss to enable email transmission when video signal is lost.
4. Enter a valid Email Address. Optionally, you can enter multiple email addresses separated by commas.

5. Enter the Email Transmission Delay time in seconds.
6. Enter the Sender's Name .
7. Enter the Sender's Email Address .
8. Complete the SMTP Server information.

Sending the Server Status via Email

To send the status of the server via email, follow these steps:

1. Complete the above eight steps.
2. Click Send Email in the Server Status section.
3. Select the cameras you need to receive screen shots from Include Image Of.
4. Enter the number of times per day to send the email in Send Email Every.
5. Optionally enter an Email Title to describe the image.

Related Topics:

Intelliguard Setup | Communication Setup

Virtual Ruler

Overview

This feature allows you to measure a person's height once they are in the camera's view. During playback, you can estimate their height by comparing them to the virtual ruler.

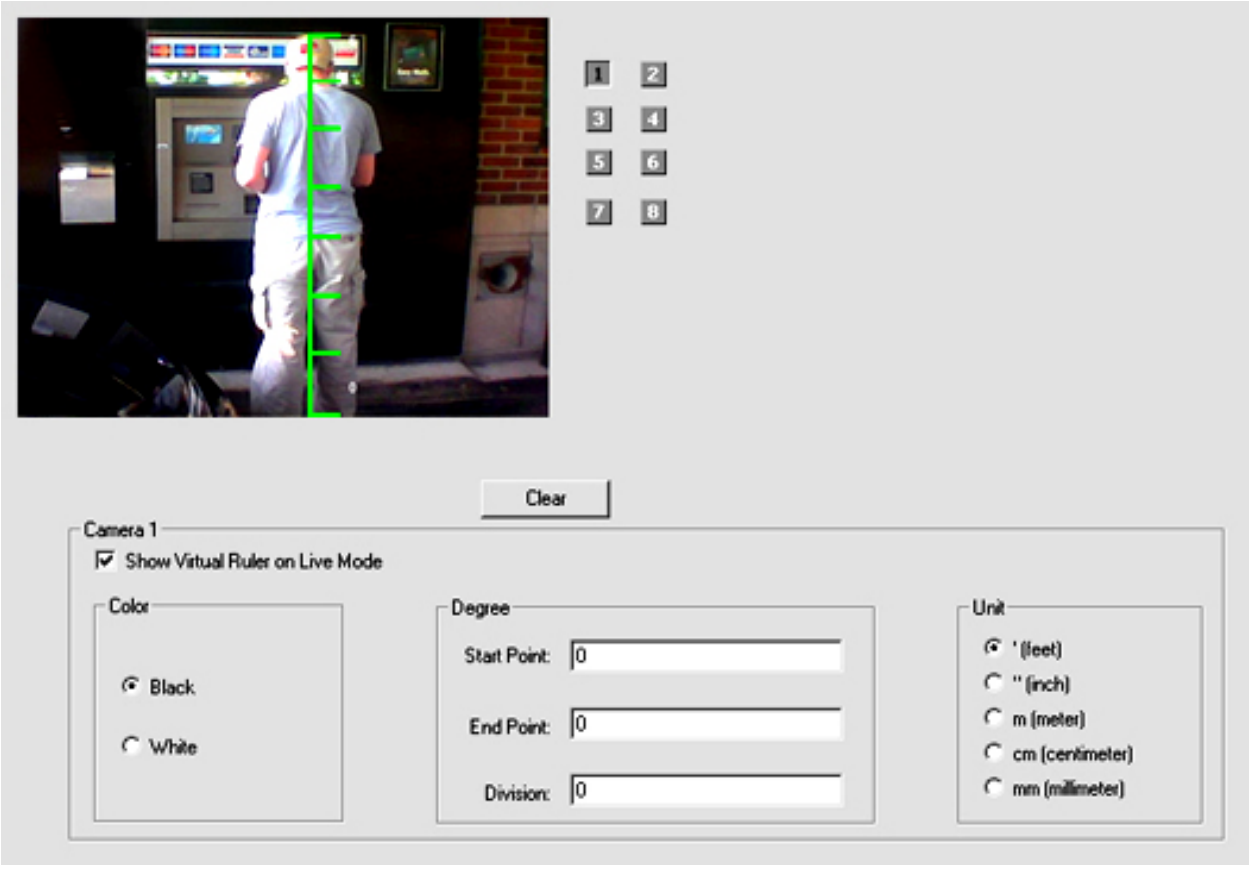


Figure 27. Virtual Ruler

Setting up Virtual Ruler

To set up the Virtual Ruler for a camera, follow these steps:

1. Select the camera in which you want to insert the ruler.
2. Select the color (black or white) of the ruler that you want. If the background is white, the ruler is better seen in black.
3. Enter the Start Point (area you want the ruler to begin).
4. Enter the End Point (area you want the ruler to end).
5. Enter the Division (measurement that is divided equally between your Start Point and your End Point).
6. In the Unit section, select the unit of measurement you wish to use. For example, feet, inches, meters, etc.

Using Virtual Ruler

Using the Virtual Ruler

To use the Virtual Ruler, follow these steps:

1. Physically measure the height that is required for your camera.
2. Draw a mark on that area.
3. Using your mouse, move the cursor to the picture.
4. Hold down your left mouse button, and drag it in a straight line.

Importing and Exporting Setup Information

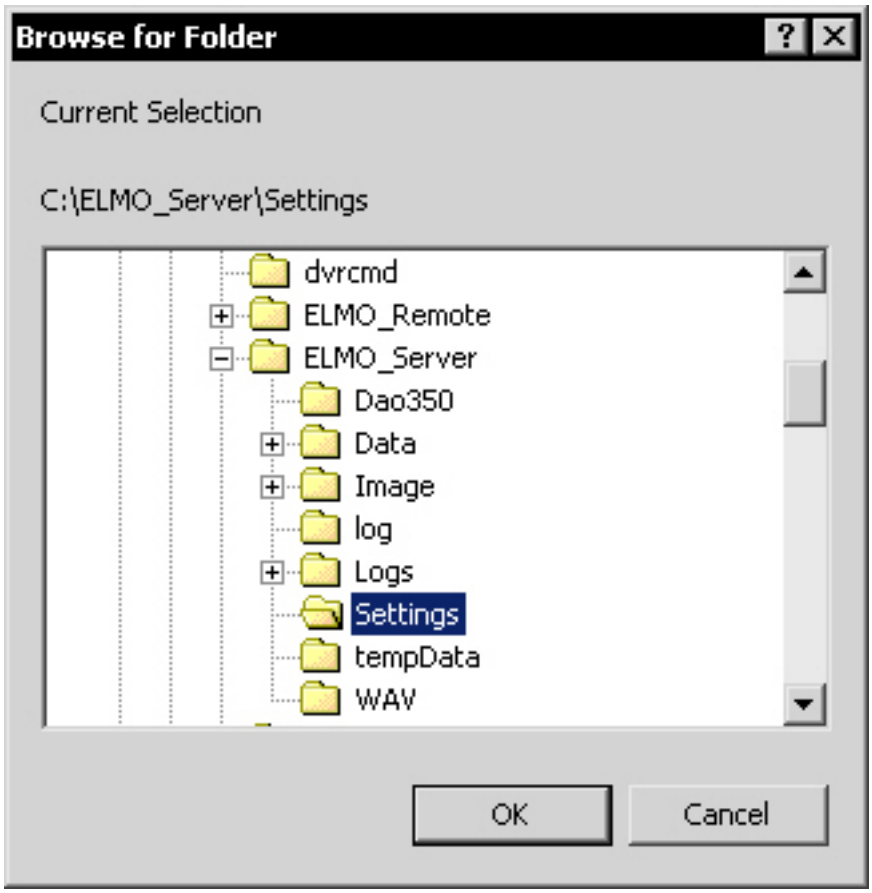
Overview

All the setup information you create can be exported to a file to be used in the future. If you have multiple servers installed and you would like to keep the same settings, you can import previously exported setup settings.

Exporting Setup Settings

To export your Setup Settings, follow these steps:

1. Click the Setup button on the main interface.
2. Click the Server Information tab.
3. Click the Export Settings button. The Browse for Folder window appears:



4. Browse to the folder you wish to export your server settings.
5. Click the OK button. Your setup settings have now been saved.

Importing Setup Settings

To import your Setup Settings, follow these steps:

1. Click the Import button on the Server Information Tab. The Browse for Folder window appears.
2. Click the OK button. Your setup settings have now been imported.
3. Restart your server. Your imported settings will take effect.

BACKING UP RECORDED VIDEOS

Quick Backup

Overview

Quick backup allows you to perfom a backup eliminating preliminary steps such as selecting a backup type, a backup media, and desired cameras. This backup method is perfomed only on a CD-R.

Note: Please ensure that a blank, unformatted CD-R is in the CD-R drive before you begin the backup process.

Performing a Quick Backup

To perform a Quick Backup, follow these steps:

1. Ensure that there is enough free space on the C drive. You should always have at least 650MB.
2. Insert a blank, unformatted CD-R into the CD-R drive.
3. Click the Search button on the main screen.
4. Right click on the data area of the Search Bar.
5. Select Mark Start to choose the start time.
6. Select Mark End to choose the end time.
7. Click Start CD backup–Encrypted to backup in encrypted format, or Start CD backup–AVI to backup in AVI format.

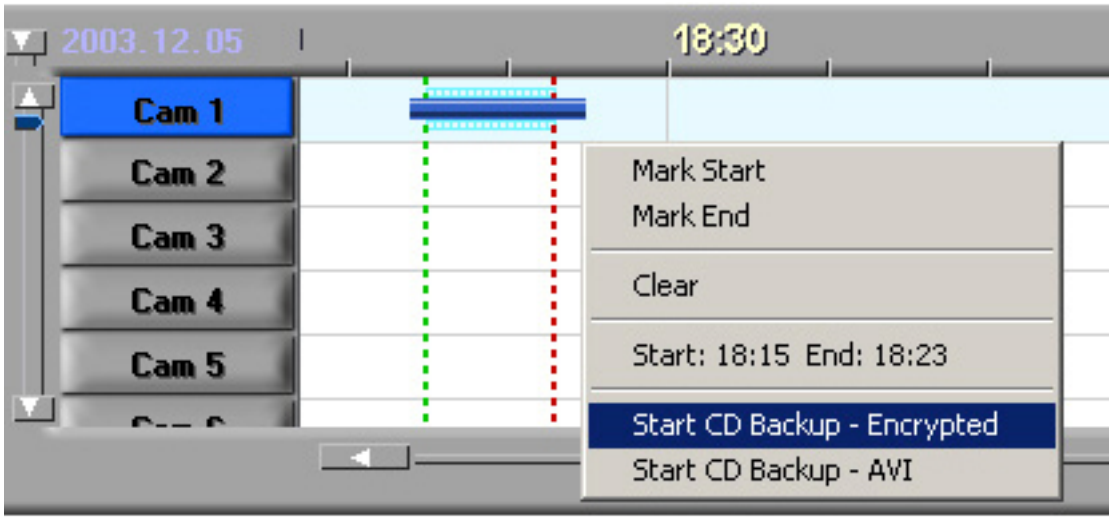


Figure 28. Search Mode Quick Backup

Note: On the sample picture, "Start: 18:15 End: 18:23" is the start time and end time. For AVI backup, select the camera(s) you need to backup. Encrypted backup will always backup all of the cameras.

Encrypted, AVI, or Email Backup

Overview

You can back up videos on your local drive, a remote drive, CD-R in encrypted or AVI, or in email format. Encrypted backups can only be opened with the Remote software. AVI backups can only be opened by AVI viewers.

Backing Up in Encrypted or AVI Format

To back up in encrypted or AVI format, follow these steps:

1. Click Search on the main screen
2. Click the Backup icon.

The Backup screen appears:

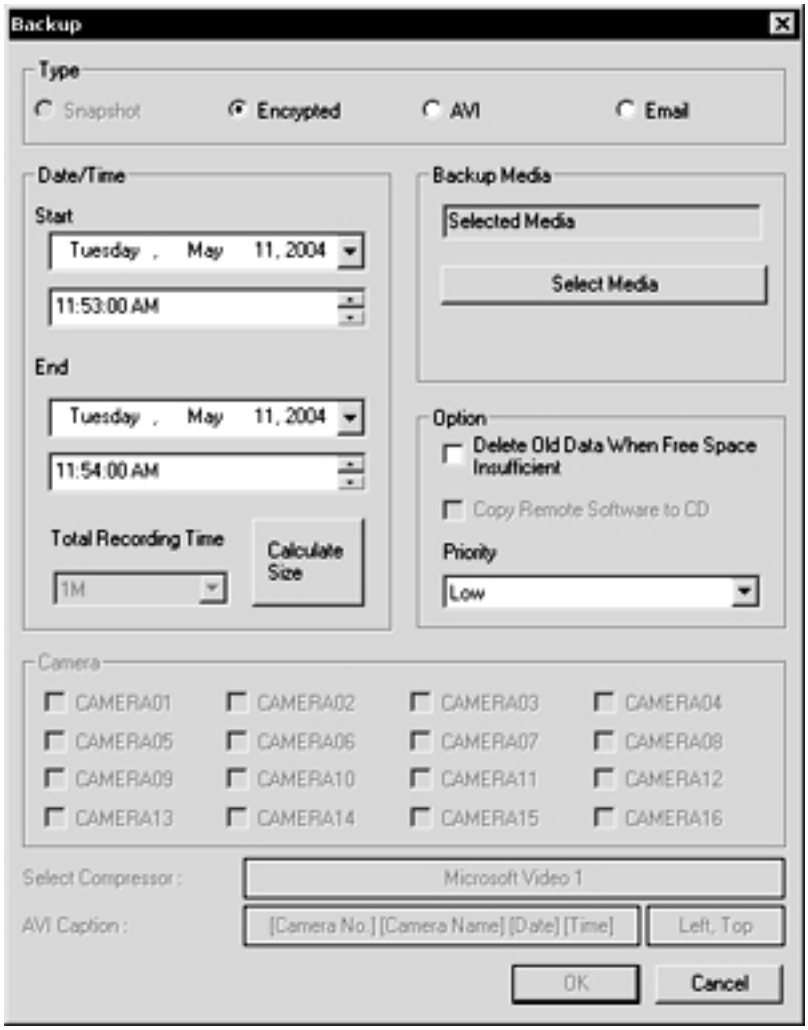


Figure 29. Backup Screen

3. Select Encrypted or AVI as the backup type.
4. Select the Start and End time from the Date/Time menu.
5. Select the Calculate Size button to determine the size of the backup.
6. Click the Select Media button to save to either a remote drive, a local drive, or a CD-R/CD-RW (600MG maximum).
7. If you are backing up on a CD-R/CD-RW, select Format CD-R/CD-RW to format the CD so that you can proceed with the backup on CD.

Performing a Snapshot Backup

Overview

Your DVR allows you to save a single picture on selected media.

Saving a Snapshot

To save a snapshot of a camera, follow these steps:

1. Click Search on the main screen.

2. Select a date for which there is data recorded. Dates with data are highlighted red on the calendar.
3. Select the camera you wish to play.
4. Click the Play button and play to the position at which you wish to take the snapshot.
5. Stop playback.
6. Click on the screen for which you wish to take the snapshot.
7. Click the Backup button.

8. The Backup dialog window appears:

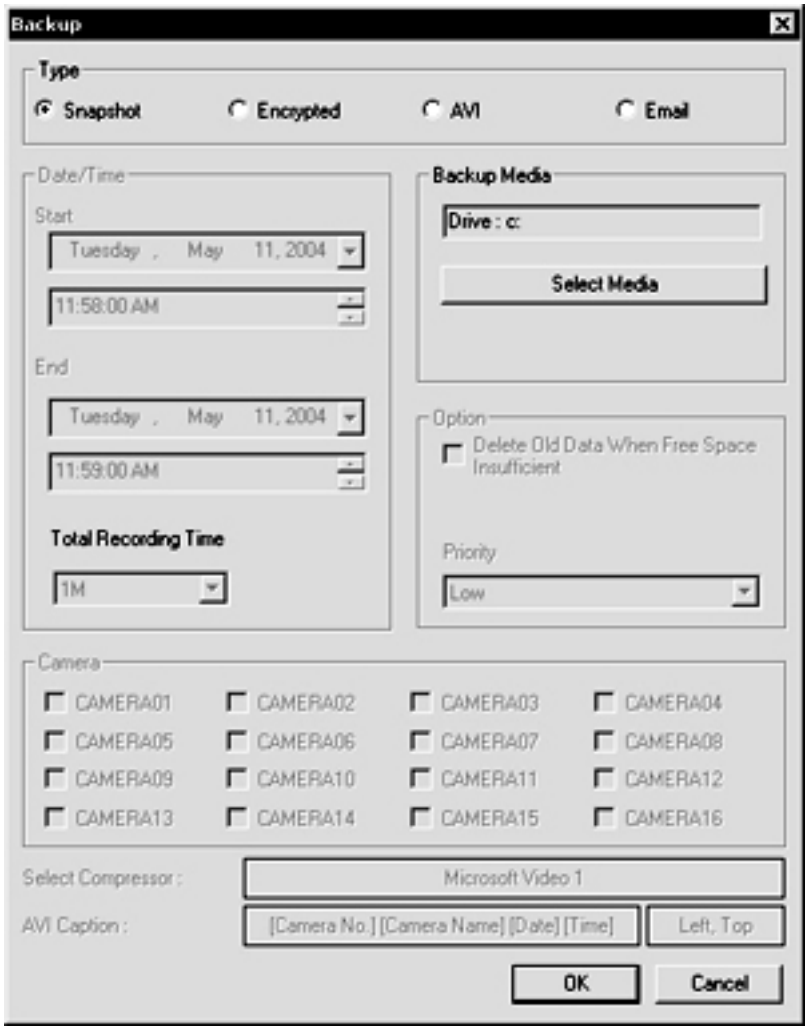


Figure 30. Backup Dialog window

9. Select the Snapshot option.
10. Select the appropriate media.
11. Click OK.
12. A dialog box will appear and ask if you would like to watermark the image to be saved. Select Yes . The watermark will allow you to verify whether or not your picture has been tampered with.
13. The picture will be saved to the selected media, enabling it to be opened with any graphics viewer. Note: The picture is saved in either Bitmap or JPEG format. This is set up in the Server Information section.

Setting up Backup Schedules

Overview

This feature allows you to define future backups by creating backup schedules. You can backup to your local hard drive or to a remote drive. You can schedule backups to occur on a daily, weekly, or monthly basis.

Setting Up Backup Schedules

To set up Backup Schedules, follow these steps:

1. Click Backup Settings on the System Setup tab.The Setup Backup Schedule window appears:

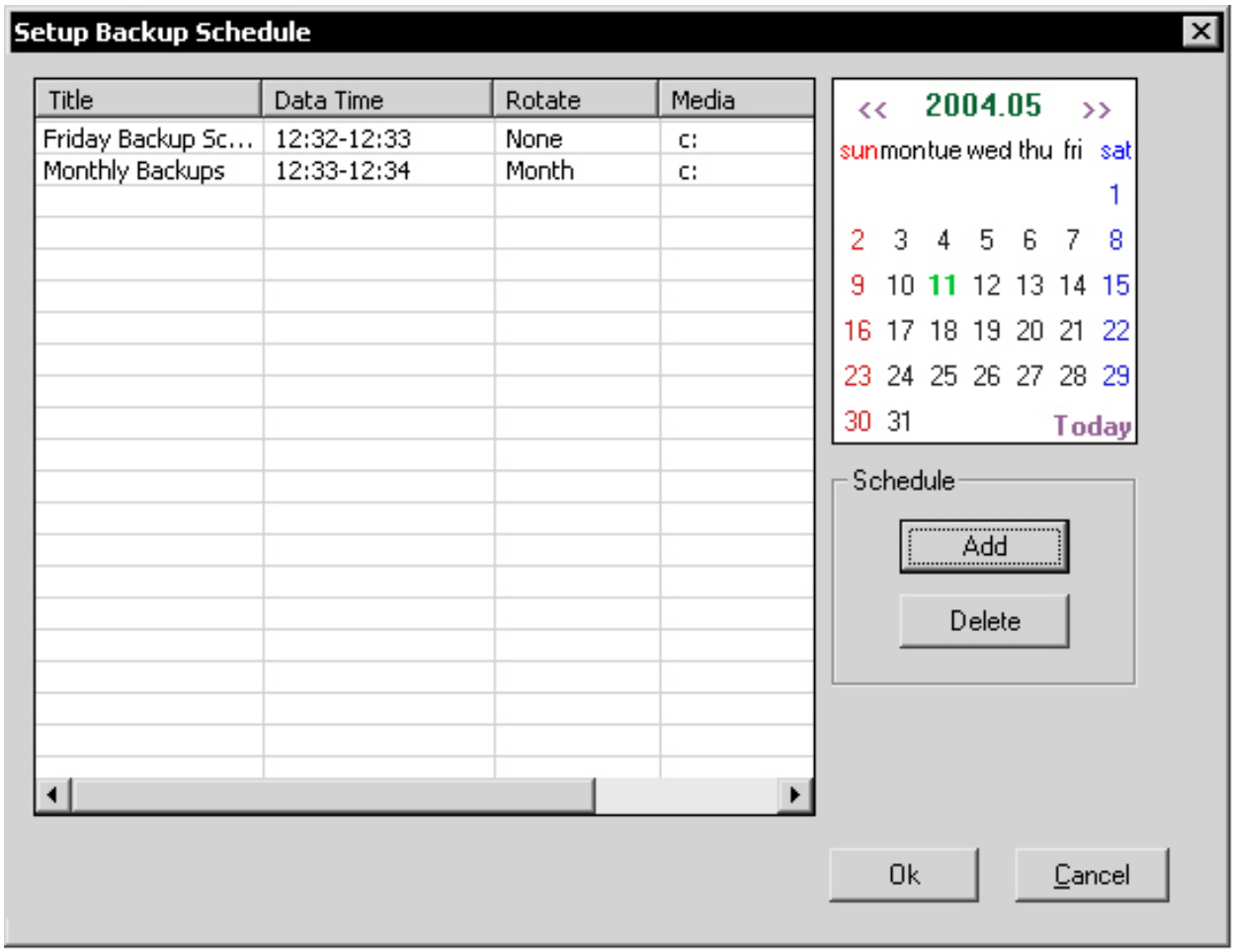


Figure 31. Setup Backup Schedule

2. Click the Add button. The Add Schedule dialog screen appears:

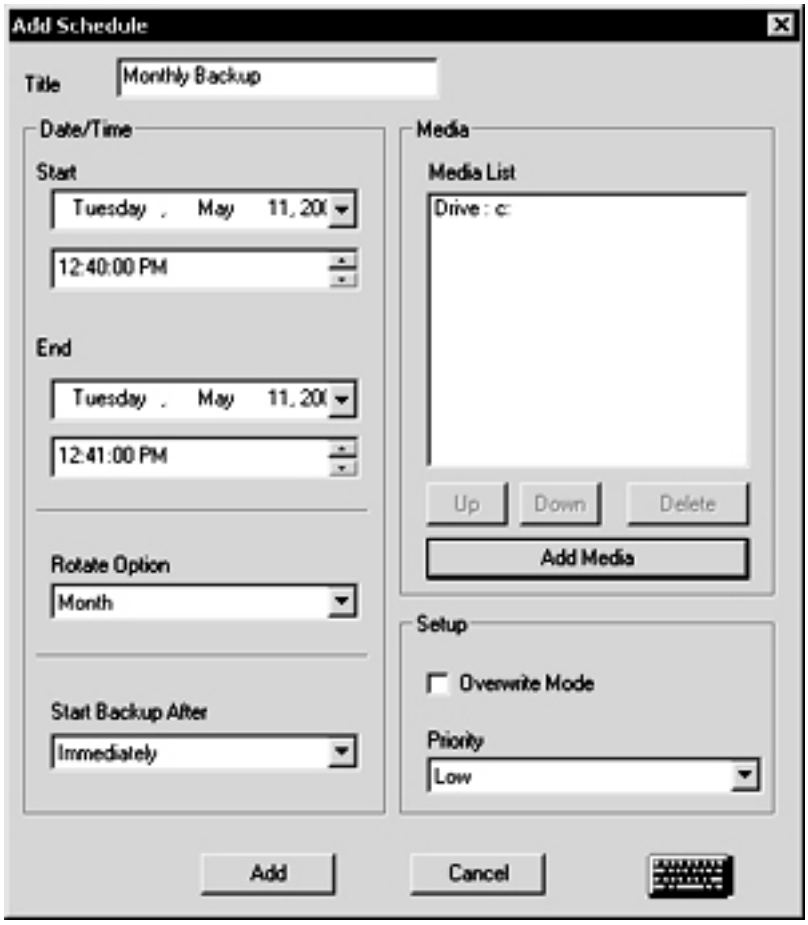
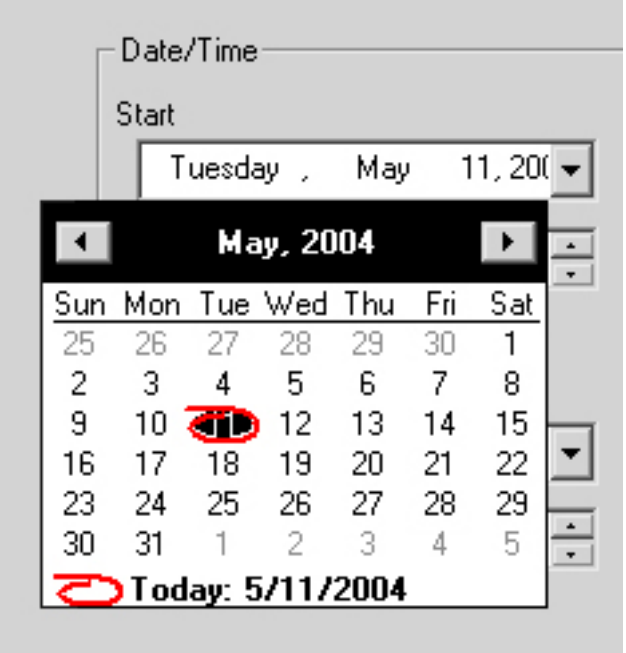


Figure 32. Add Schedule

3. Fill out the Add Schedule options as follows:

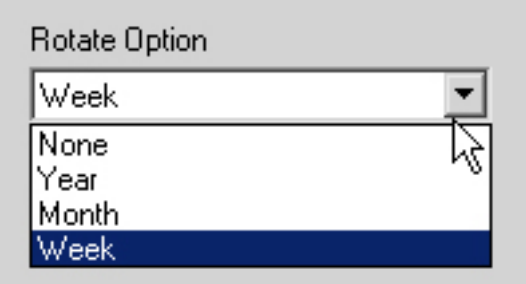
   a. Enter a descriptive Title for the backup.

   b. In the Start section, set the start date and time. A popup calendar appears:

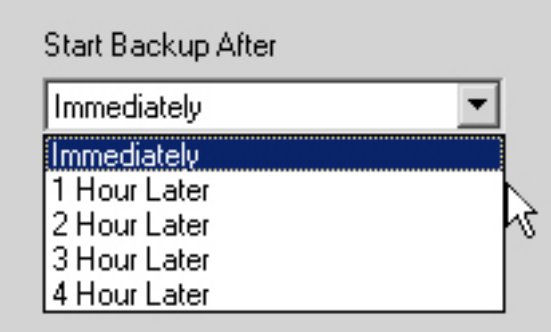


c. Set end date and time from the End section (similar to start time).

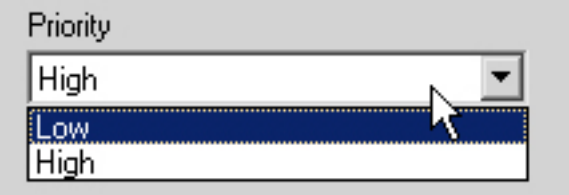
d. Select a rotation option from the pull-down menu.



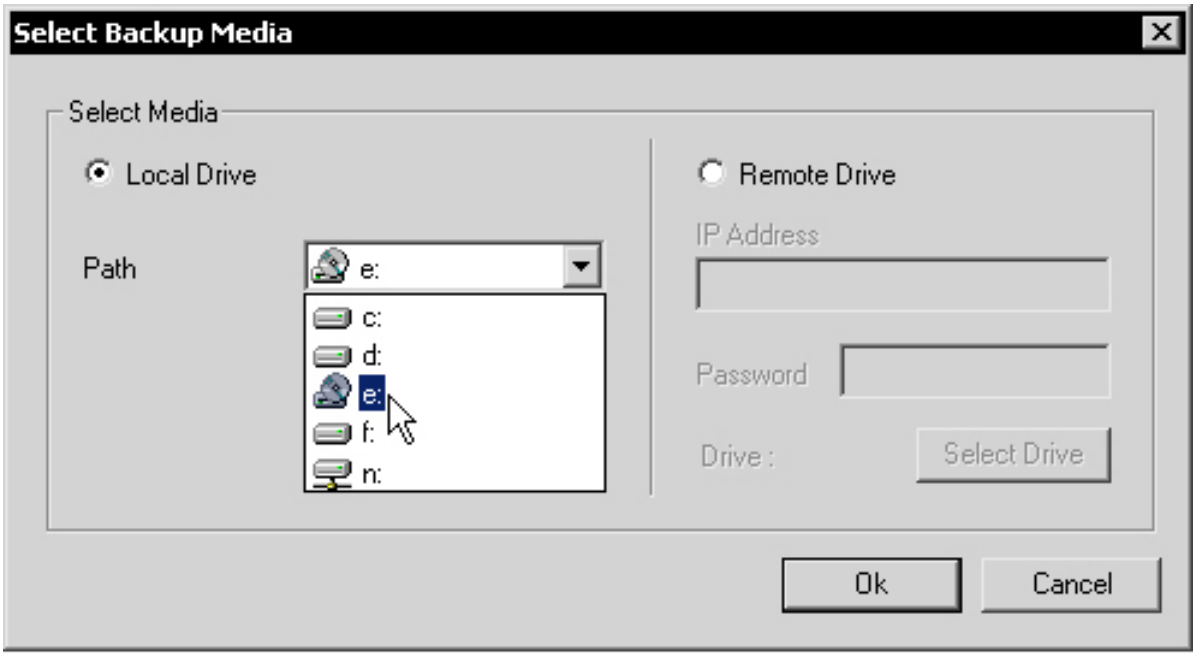
e. Select the Backup Timer Interval from the pull-down menu. This sets the backup start time interval. For example, 'immediately', '1 hour later', etc.



f. Select the backup Priority from the pull-down menu.



g. Click Add media to specify where you would like to save the backed-up data.

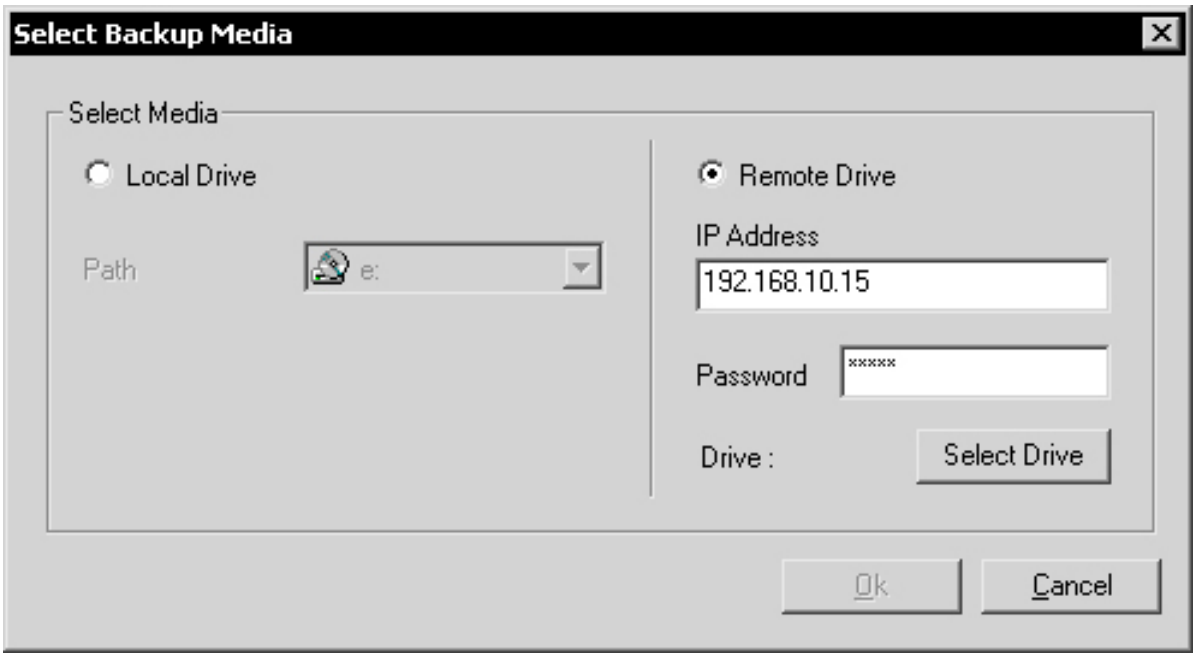


h. Select Local drive or Remote drive for the desired media.

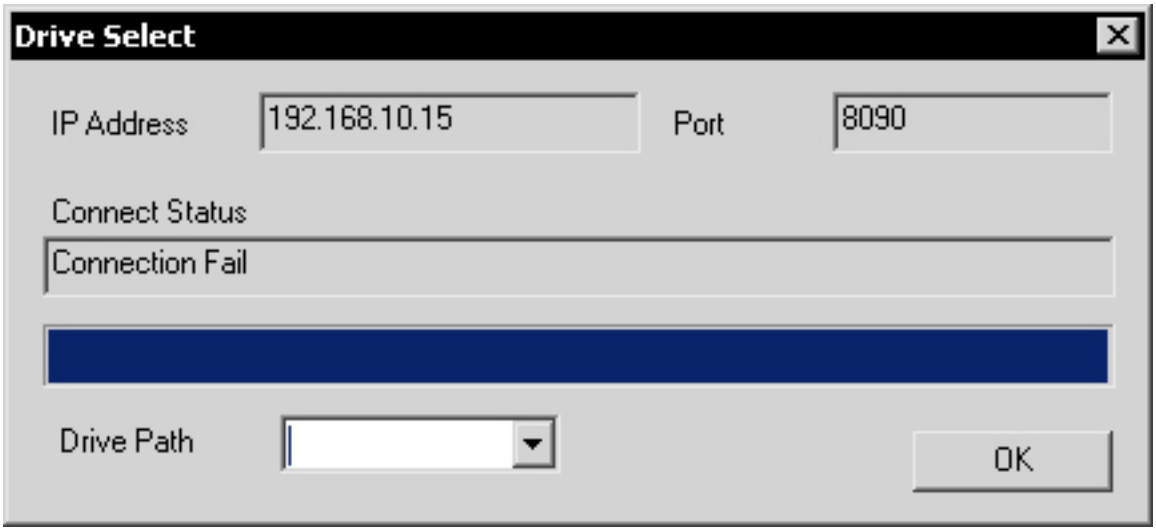
i. To back up to a local drive select the Local drive option. Then select the drive letter from the Path pull-down menu.

j. To back up to a remote drive, select the Remote drive option.

k. Enter the IP address of the remote PC in the IP Address text box. To access the drive, enter the password in the Password text box if required.



l. Select the appropriate remote drive by clicking the Select Drive button.



Note: Before a remote connection can be made, K-Remote Backup Server must be running. This is installed along with the remote DVR software.

K-Remote Backup Server

Overview

When you backup to a remote drive, the backup process is performed through the K-Remote Backup Server. The K-Remote Backup Server is installed with your ELMO Remote DVR and MUST be running in order for remote clients to backup via Remote media.

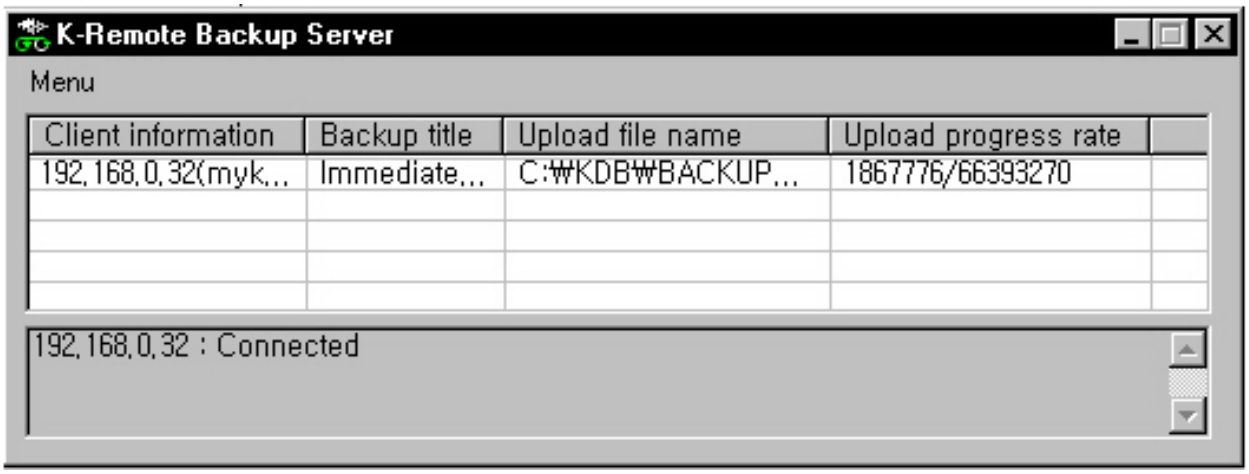


Figure 33. K-Remote Backup Server

SEARCHING SAVED VIDEOS

Search Mode

Overview

You can search recorded videos on the Search Mode screen. The various searches you can perform include Index Search, Object Search, and Bookmark Search.

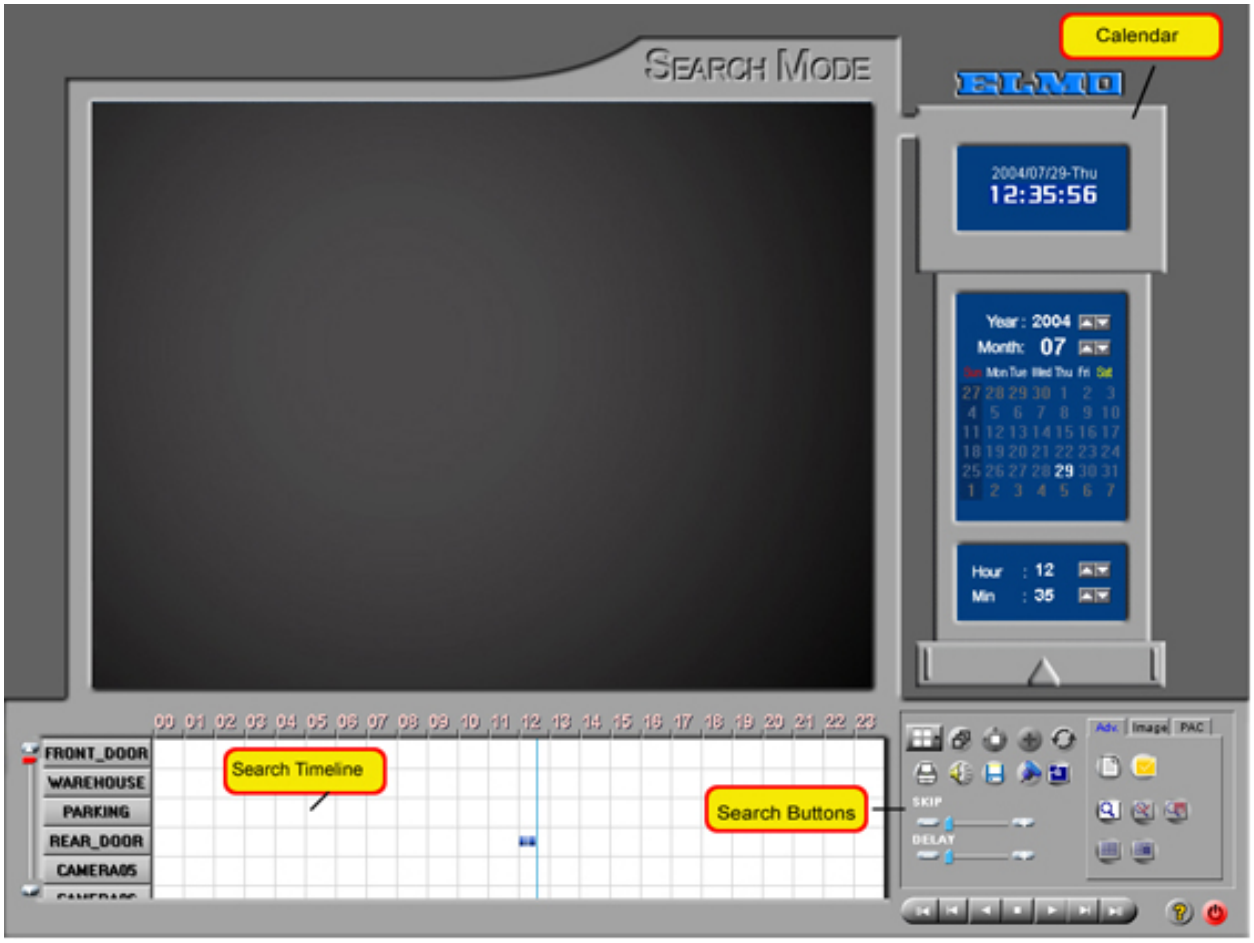


Figure 34. Search Mode

Please see the following sections to learn more.

Searching by Date and Time

Using the Time Line Bar

Bookmarks

Searching by Date and Time

Overview

You can search a recorded video according to the date and time the video was recorded.

Searching by Date and Time

To Search by date and time, follow these steps:

1. Select Year and Month from Calendar
2. Select the Day you want to search.
   - Days highlighted in red are days for which there is recorded data.
   - A day highlighted in white indicates a day you have selected to search.
   - A day highlighted in yellow indicates the current day of recording.

(Date picture was taken: September 24th 2003)

3. Select the time that you want to view.

The Timeline Bar

Overview

A 24-hour timeline is available showing you recorded video, motion, and sensors.

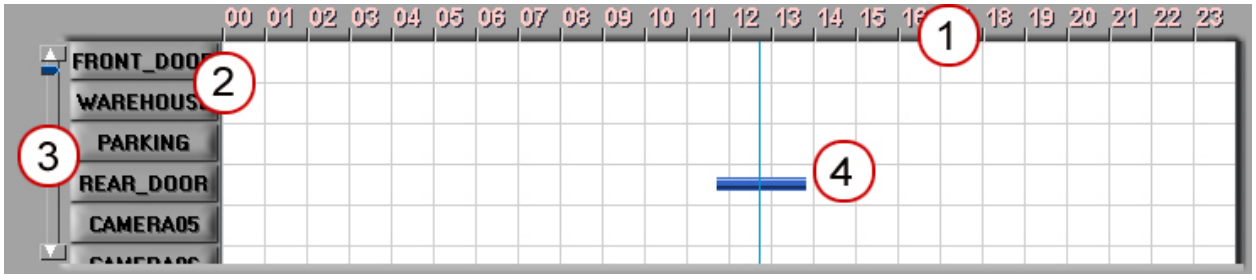


Figure 35. Timeline Bar

Using the Timeline Bar

1. Click on the Time Line bar to expand or reduce the time line view.

2. Select different cameras by clicking on the appropriate camera buttons.
3. Scroll up/down to view more cameras.
4. The above time line indicates that there is recorded data in three cameras (1, 2, and 3 from 11AM to 12:30 AM).

   - A pink bar indicates Continuous recording.
   - A blue bar indicates Motion recording.
   - A red bar indicates Sensor recording.
   - A green bar indicates Pre-Alarm .

Bookmarks

Overview

Bookmarks are used as a quick method of saving the date and time that a video was recorded.

Adding a Bookmark

To add a Bookmark, follow these steps:

1. Click the Bookmarks button on the Search screen.

2. The Bookmark window appears as shown below.

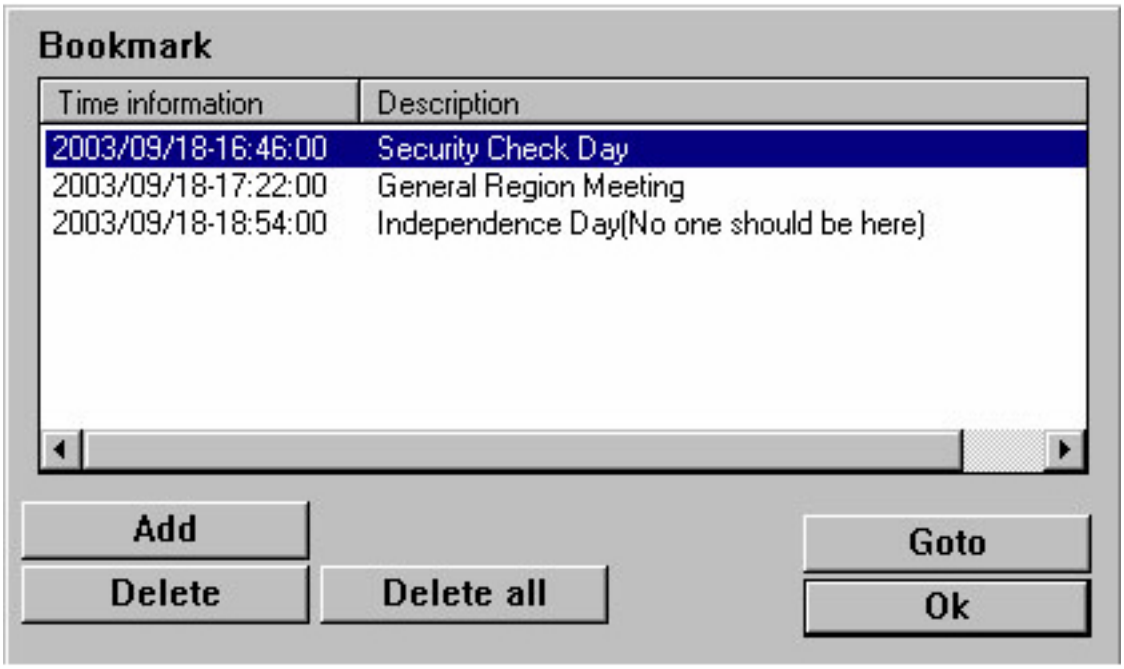


Figure 36. Bookmark Window

3. Click Add. The date and time are automatically entered.
4. Enter a Description .
5. Click Enter.
6. Click OK to close the Bookmark window

To delete bookmarks, follow these steps:

1. Select the desired time from the bookmark list.
2. Click Delete.
3. To delete all stored bookmarks, click Delete All .

To locate a stored bookmark, follow theses steps:

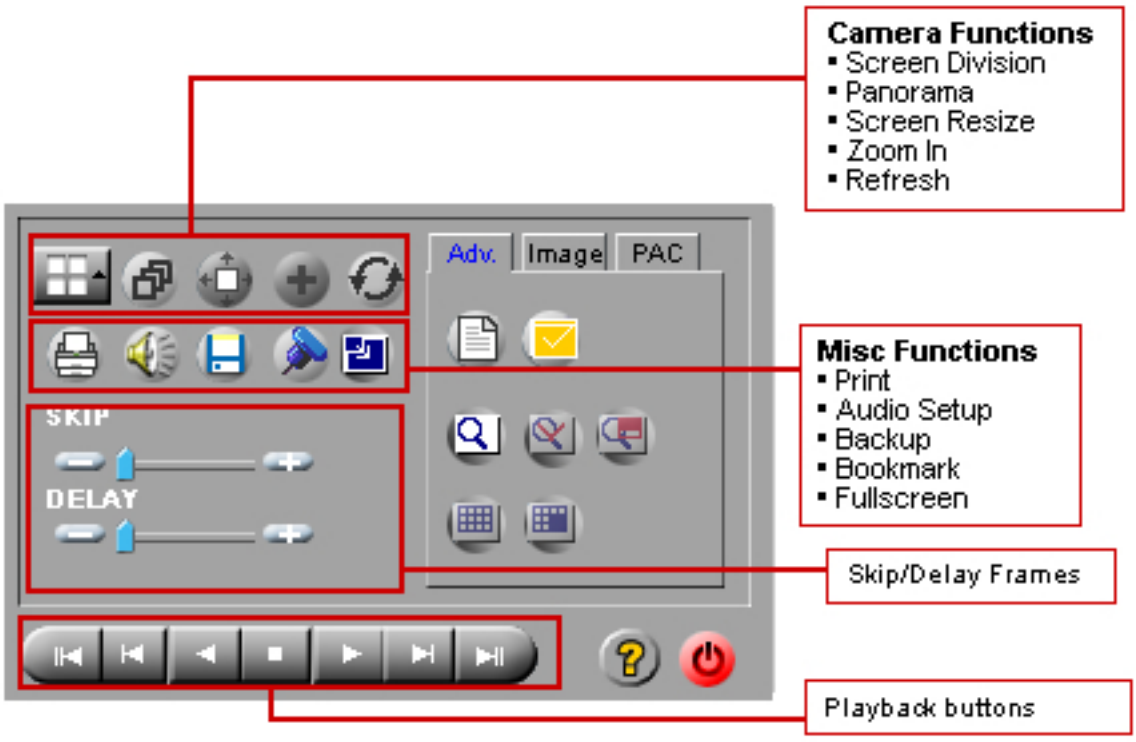
1. Select the desired bookmark.
2. Click Goto. The Time Line marker will jump to the date/time of the bookmark.

Search Mode Control Panel

Overview

The Search Mode Control Panel consists of many buttons. The following screen captures define the various functions of these buttons:

Main Buttons



Advanced Functions

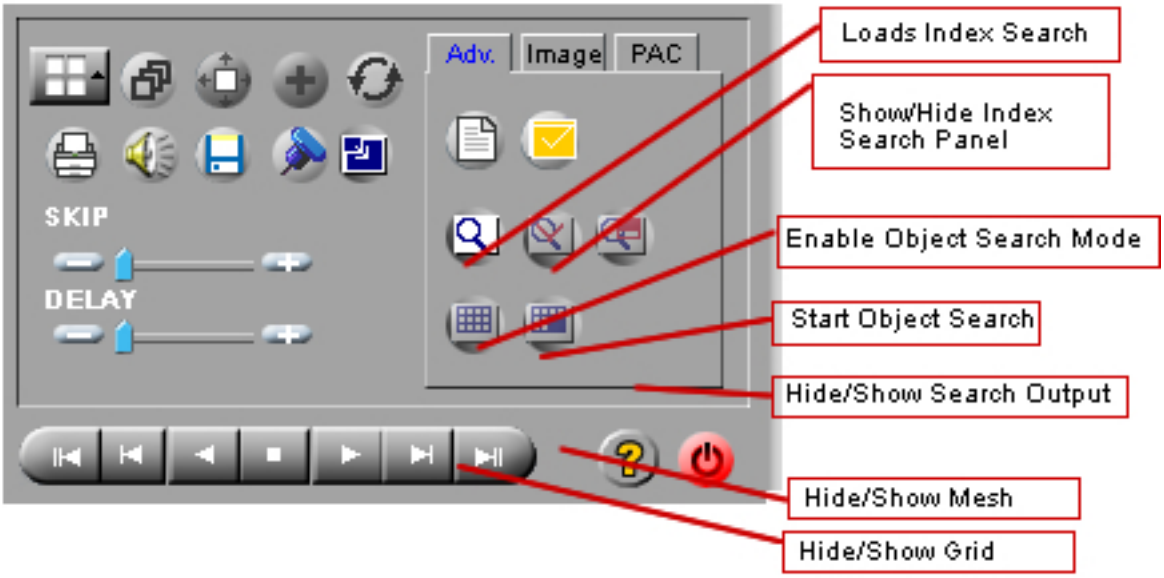
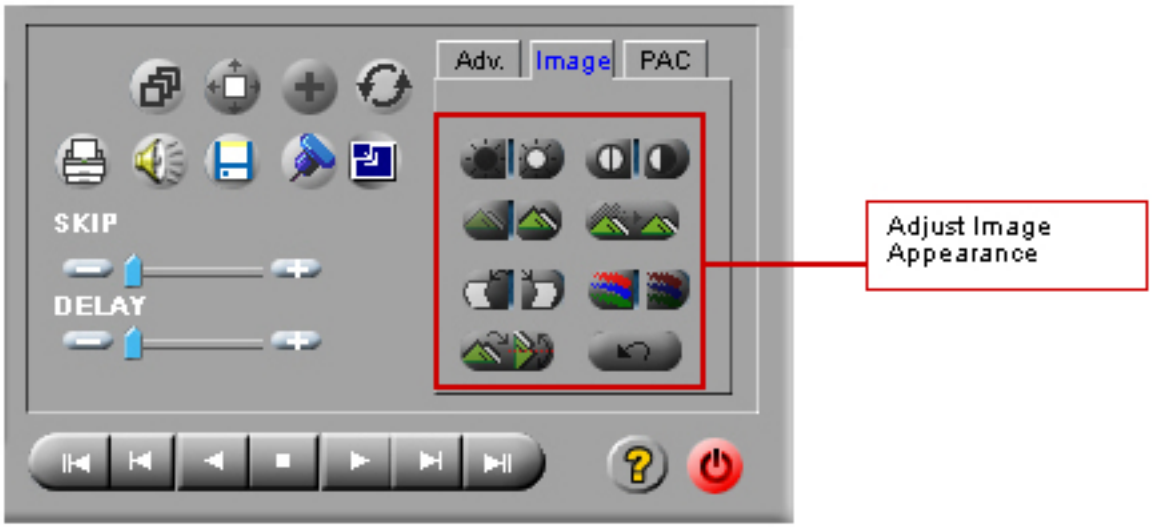
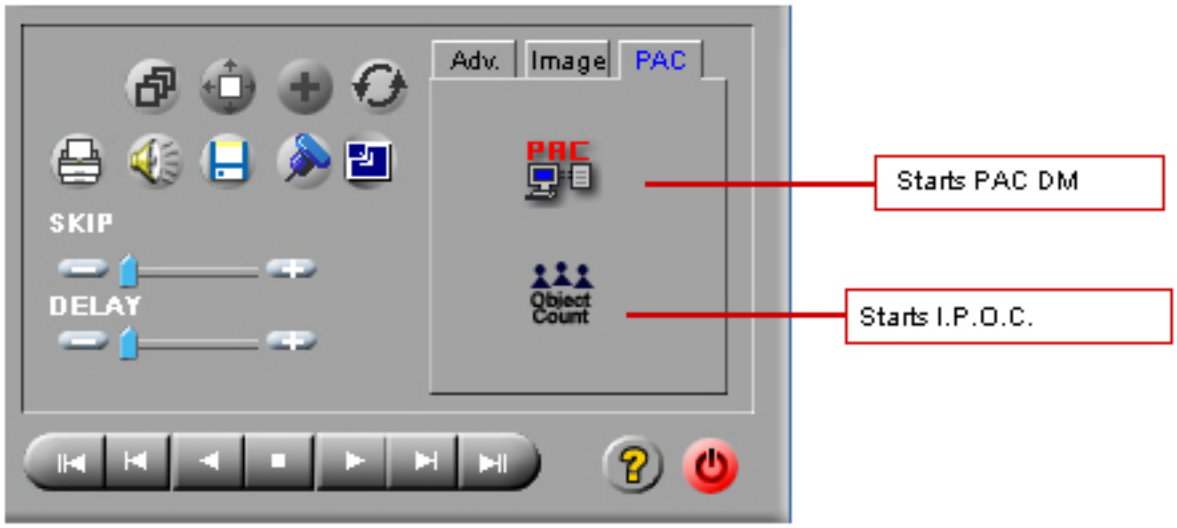


Image Controls



PAC Functions



Performing an Object Search

Overview

In Object Search mode, ELMO DVR Server searches for movement in the video recorded and only outputs changes in motion.

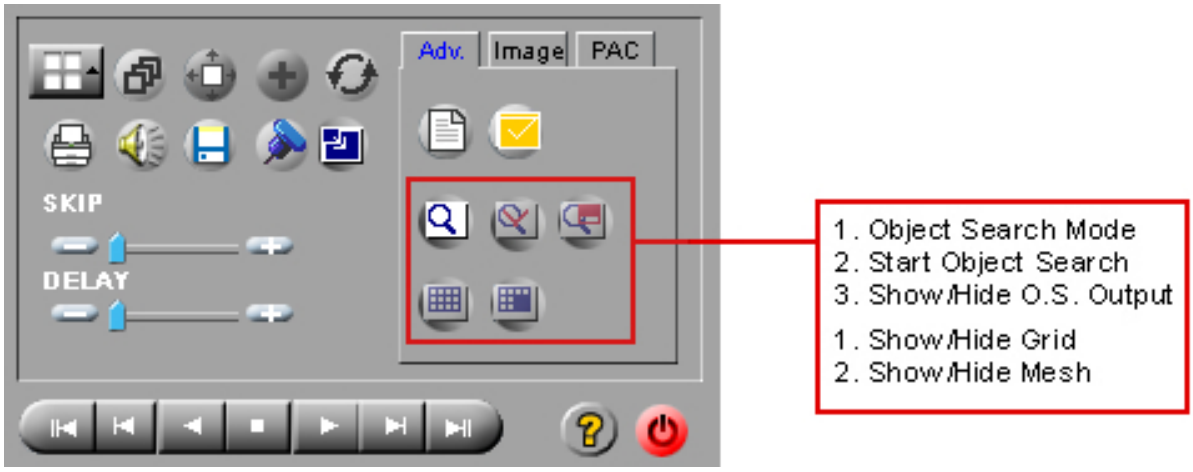
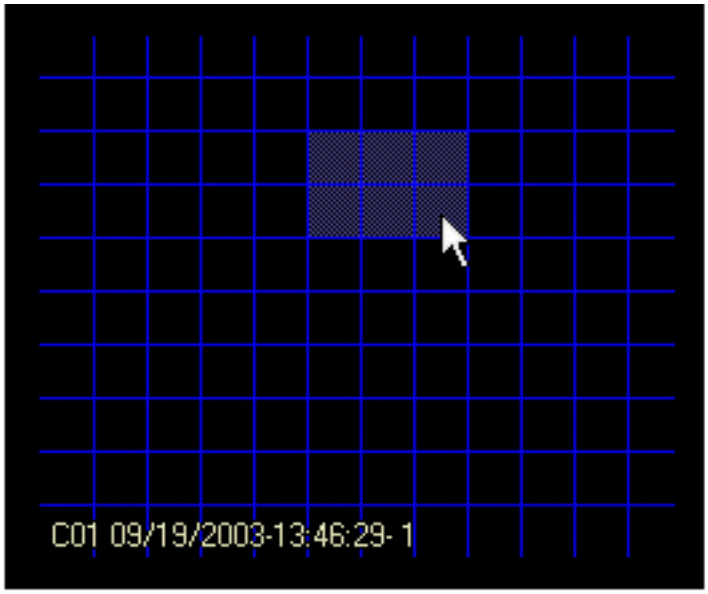


Figure 37. Object Search

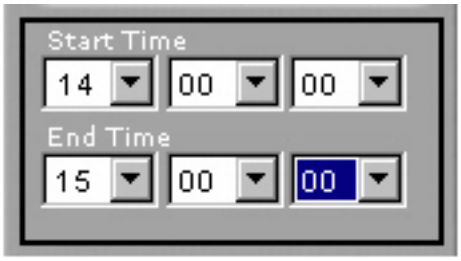
Performing an Object Search

To perform object search, follow these steps:

1. Click the Object Search Mode button on the Search Mode control panel. A grid appears on your screen:



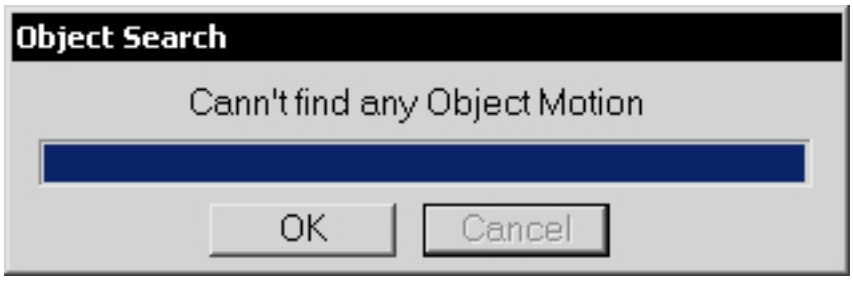
2. Use your mouse to select areas on the grid on which you wish to perform an object search.
3. To deselect areas, use the right mouse button.
4. Set the Start and End times on the Calendar .



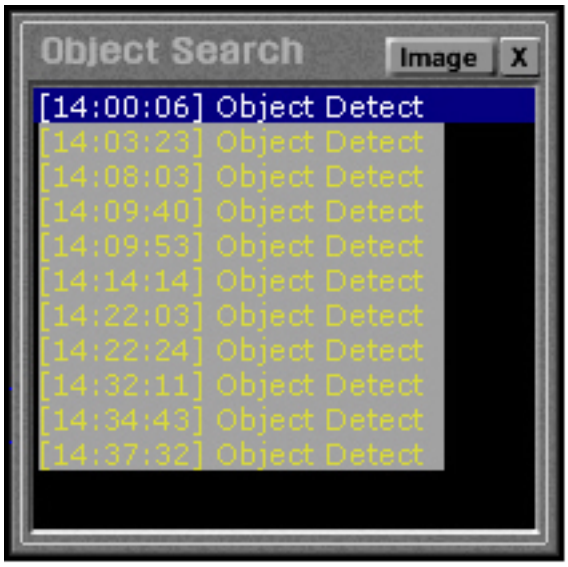
5. Click the Start Object Search button to begin object search. An output window appears with the detected areas stamped with

the time.

If no motion was detected, the following window appears:



6. To show only a text list (rather than image and text), click the Text button on the output window:



Index Search

Overview

Index search gives you quick access to specific frames where detected motion, triggered sensors, or pre-alarm recording took place.

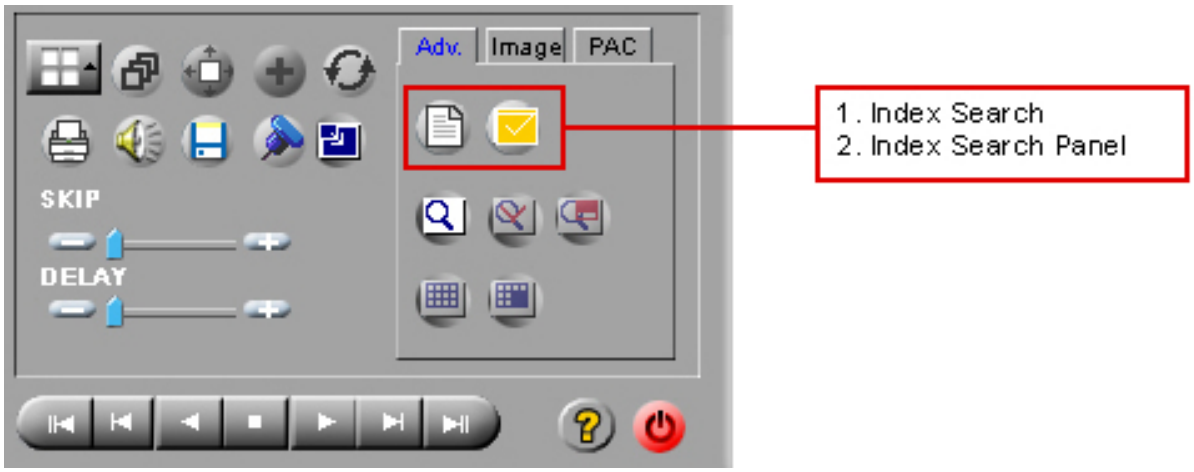
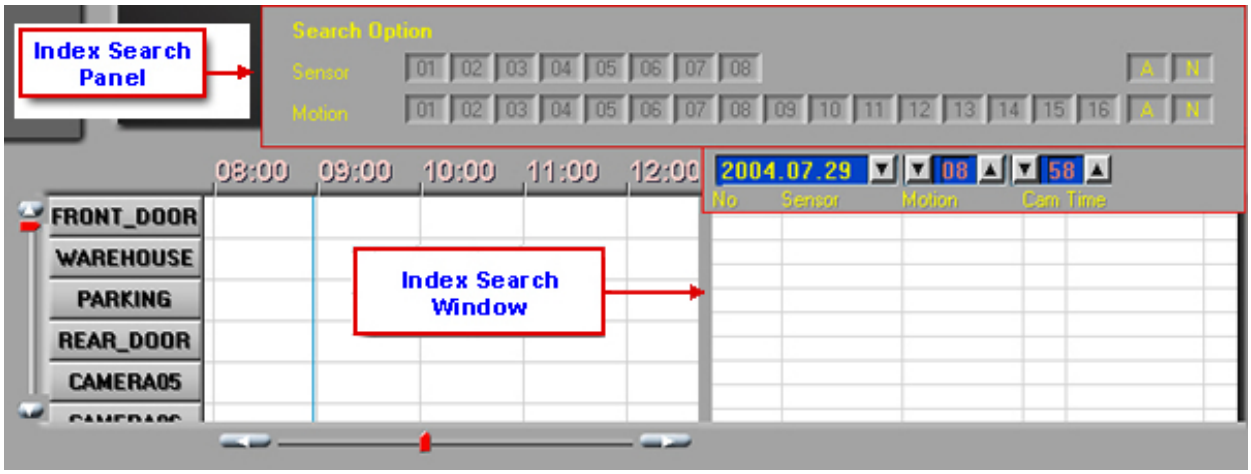


Figure 38. Index Search

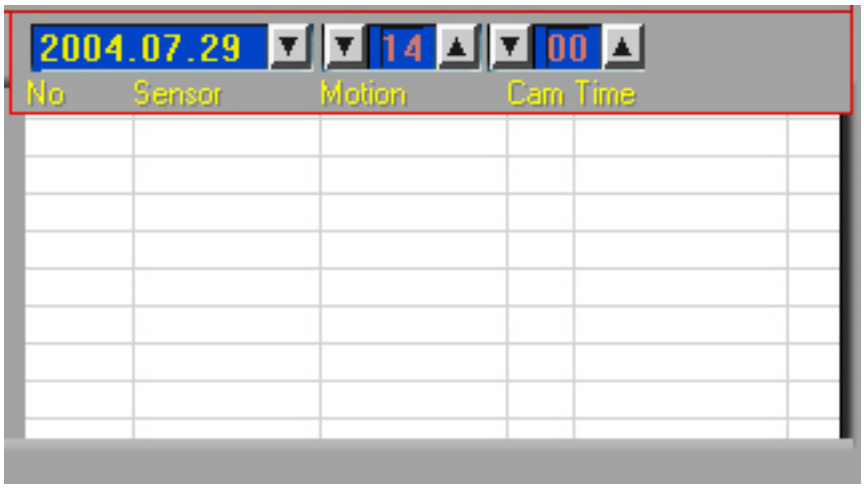
Performing an Index Search

To perform an Index search, follow these steps:

1. Click the Index Search button on the search control panel. The Index Search window appears on the time line:



2. On the Index Search panel, select Motion , Sensor , or Pre-Alarm as the indexing method. The image below shows you that motion occurred on Camera 01.



3. Click on any frame number. The Time Line marker will jump to the time of that frame recording.

PAC INTEGRATION

Setting up PAC Text Overlay

Overview

Your DVR can be configured to display and capture current PAC activity on any camera you configure for PAC support.

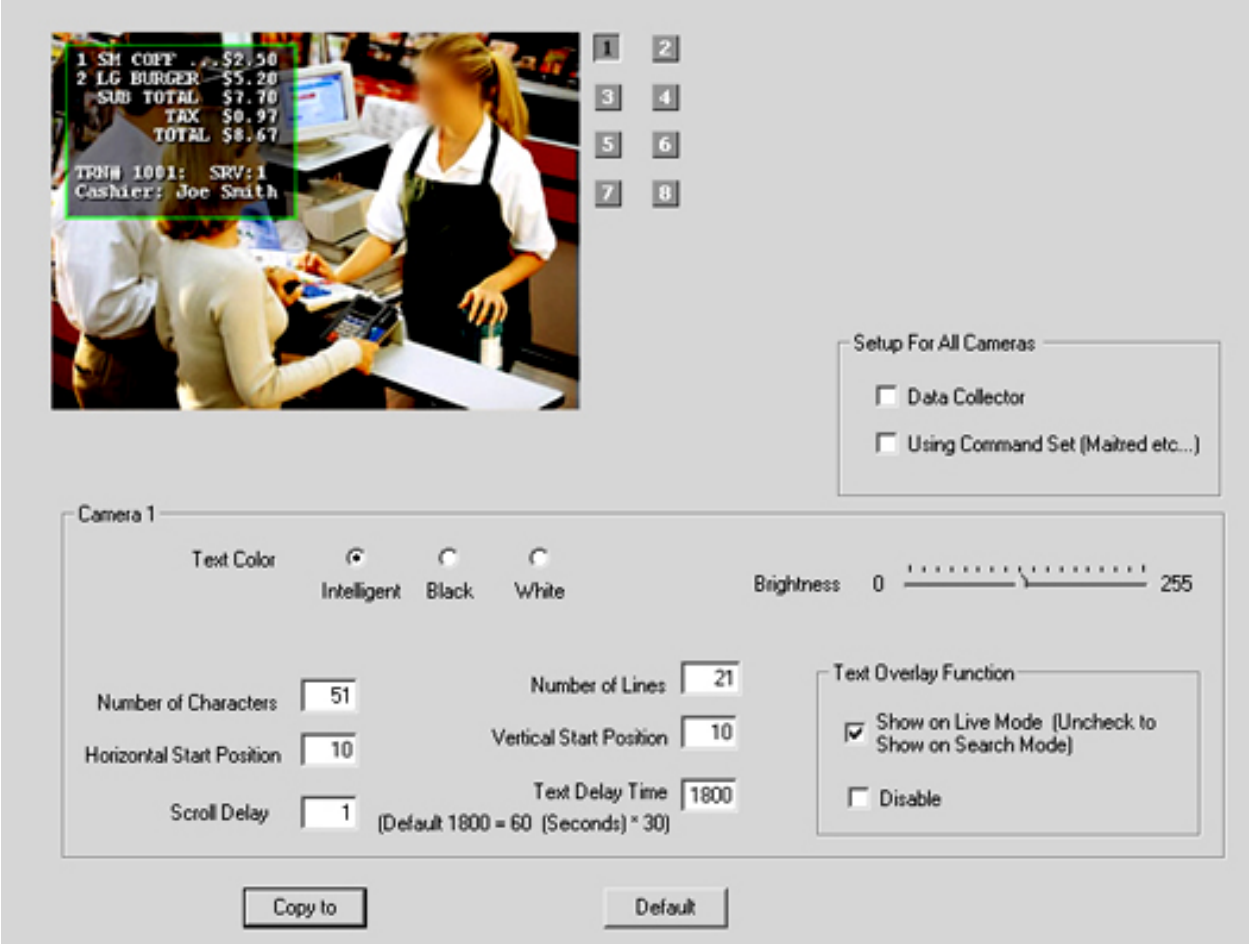


Figure 39. PAC Text Overlay

Setting up PAC Text Overlay

To set up PAC Text Overlay on a camera, follow these steps:

1. Click the Setup button on the main screen.
2. Click the Text Overlay tab.
3. Select the camera on which you wish to see text overlay.
4. On the video window draw a rectangular box around the area for which you would like to see the text overlay.
5. Select Black/White for the text color. Selecting Intelligent will set the text color to the opposite color of the background. Example : If the background is dark the text color would be white. If the background is bright the text color would be black.
6. In Intelligent mode, adjust the Brightness according to desired background sensitivity.

7. Select Show Text Overlay on Live Mode to display text inserter on live mode.
8. Enter the Number of Characters per line.
9. Set the Horizontal Start Position with respect to the rectangle's left edge.
10. Set the Vertical Start Position with respect to the rectangle's top edge.
11. Enter the Scroll Delay to determine the number of frames delayed when text scrolls up.
12. Enter the Number of Lines to display in the rectangle.
13. Enter the Text Delay Time. If there is no text input for a long time, the text will disappear automatically.

ELMO DVR REMOTE

Introduction to your Remote Software

Overview

Your ELMO DVR Remote software is used to connect and manage multiple servers by using the internet or a local LAN connection. Most of the features provided in ELMO DVR Server are available in ELMO DVR Remote. This section will describe the features that are avialable only in ELMO DVR Remote.

Starting your ELMO DVR Remote Softare

To start your ELMO DVR Remote Software, double-click the ELMO Remote icon on your desktop:

The following screen appears:

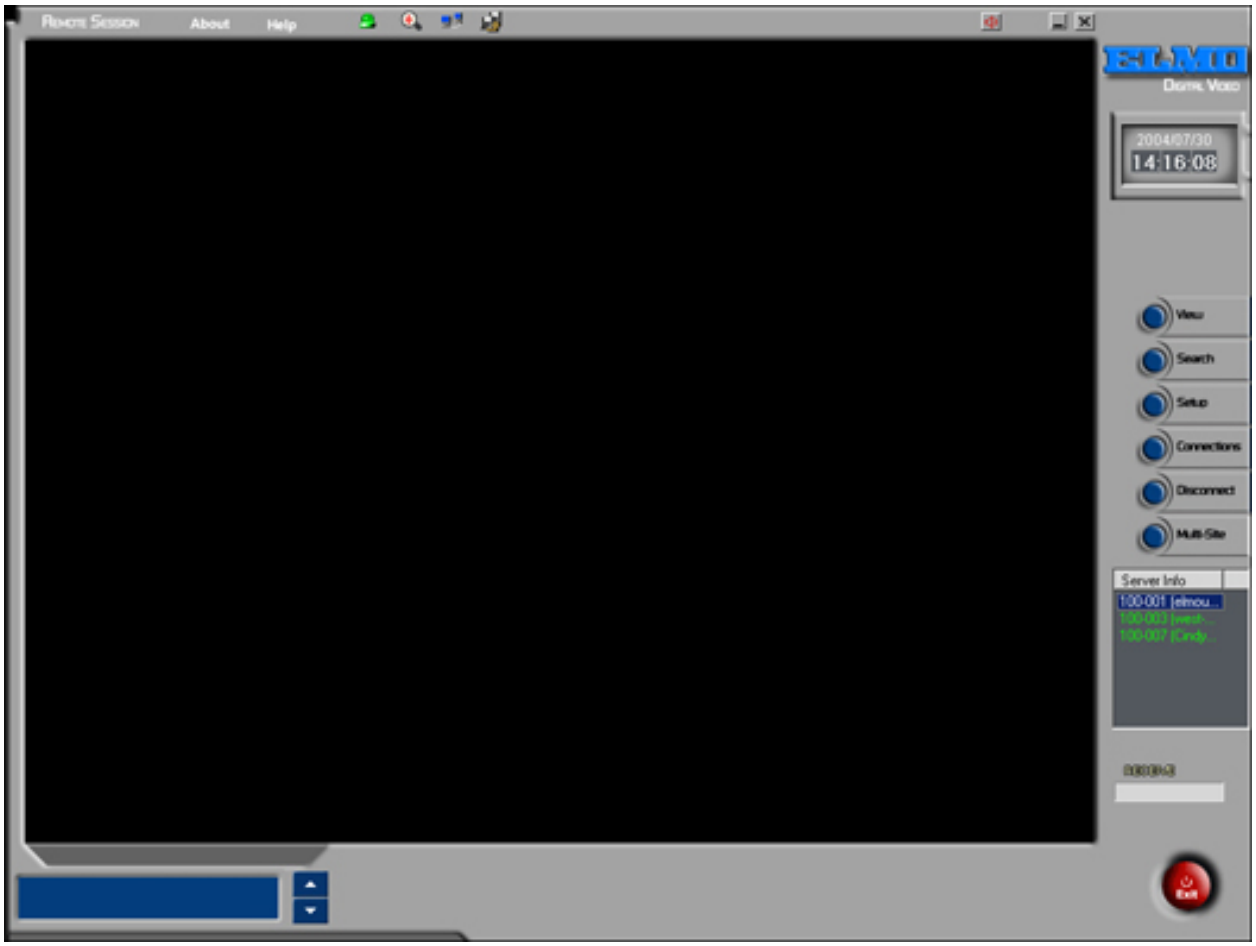


Figure 40. ELMO DVR Remote Main Screen

View	Activates the camera once your system has connected to the server.

Search	Searches for previous events that have been recorded remotely, onto your local hard drive, or to CD-R/CD-RW.
Setup	Loads the setup page to configure your ELMO DVR Remote features and functions.
Connections	Manages lists of remote servers you can connect to and manage.
Disconnect	Breaks the connection from a connected server.
Multi-Site	Allows a user to specify which cameras will be in each division, allowing cameras from different servers to be on the same screen. This is accomplished through drag and drop.
RECEIVE	Displays the progress of data transmission.
IP Address	Displays the IP address of the currently active server.
Emergency Monitor	Handles any sensor or controller motion events.
Health Monitor	When connected to a DVR through this application, you can view the current status of cameras (if there is video loss), control, and sensors.
Intelli-Upgrader	Allows you to upgrade the software on the DVR if it appears in the server list created with the remote software.
K-Remote Backup Server	Handles backup processes, and gives the option of cancelling any backup process. This MUST be running in order to perform remote backups.
2-Way Audio	Allows the remote user to communicate via voice with anyone who may be at the server side.

Table 3. ELMO DVR Remote Main Screen Features

Managing your Servers

Overview

Before you can connect to a server you must create a connection with the connections list. You can manage a server located anywhere as long as you have internet access to that server. The server also should have a static IP Address or a Dynamic IP domain service such as www.123ip.com.

Adding a server to your list of connections

To create a new server, follow these steps:

1. Click the Connections button on the main screen. The following window appears:

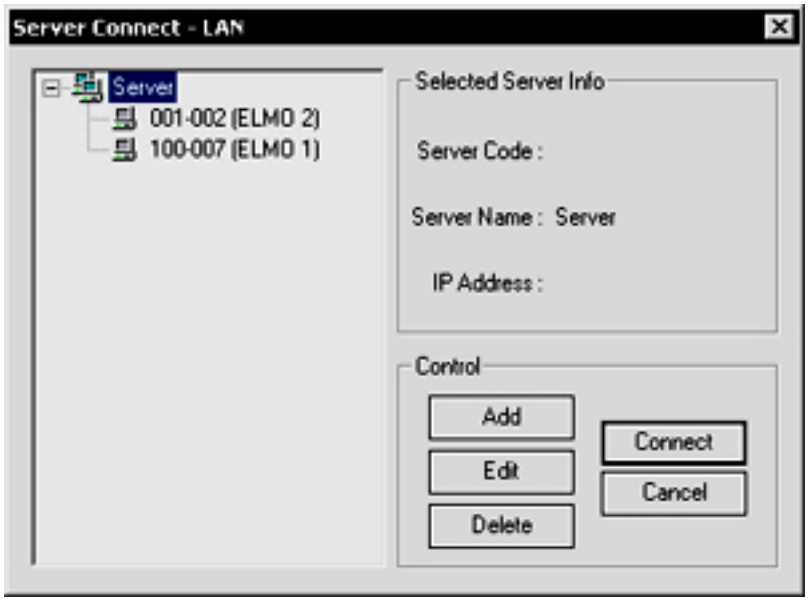


Figure 41. Server Connect Window

2. Click the Add button. The Insert to new site window appears:

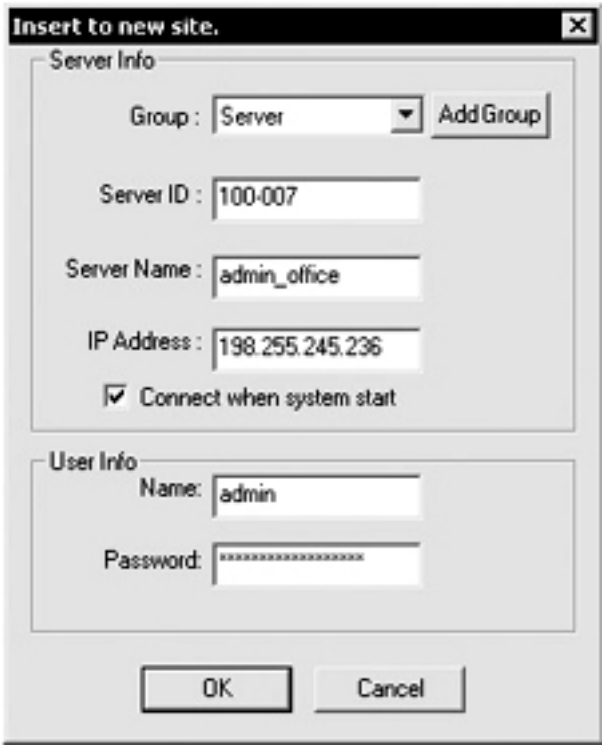


Figure 42. Creating a New Site

Group	The group (category) in which you would like to place the new server.
Server Code	A maximum of seven alphanumeric characters. Note: This must

	match with your Server ID on the server software.
Add Group	Enables the user to add a Group.
Server Name	A descriptive name of your choice.
IP address	IP address of the remote server.
Connect When System Start	Check this box to automatically connect to the server when the remote software loads.
Name	The user name that is desired which corresponds to a user name on the server.
Password	This password must match with the password on the remote server for the user name you've entered above.
Cancel	Allows user to cancel creating a new server in the list of servers to connect to.

Table 4. Insert to New Site Window Features

3. Click the Add Group button to add a Group.
4. Enter the name of the new Group.
5. Click OK to continue.

Connecting to Servers

Overview

Before connecting to a server, ensure that the server is on, and that it is available on your local network or internet. Also, you should use the same versions of ELMO DVR Server and ELMO DVR Remote.

Connecting to a Server

To connect to a server, follow these steps:

1. Click the Connections button on the main screen. The following window appears:

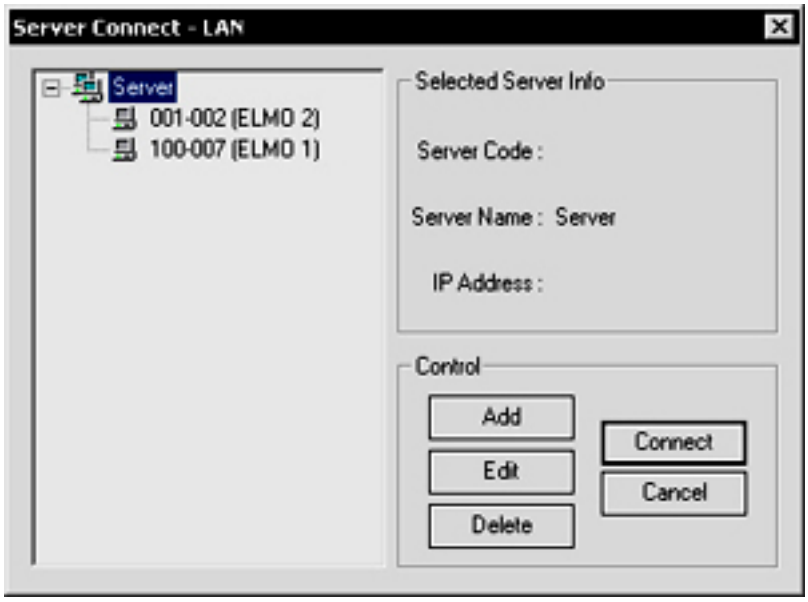


Figure 43. Server Connection - Lan Window

2. Select the desired server from the list of servers.
3. Click the Connect button. The Connecting Server - LAN window appears showing the status of the connection:

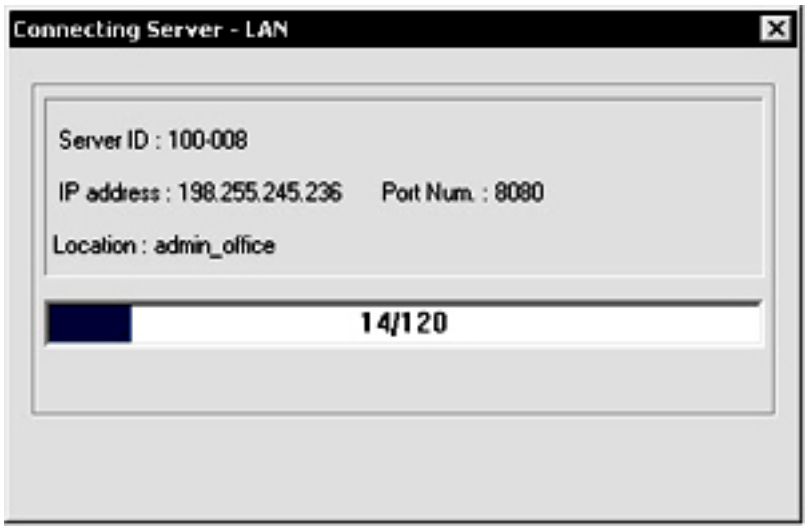


Figure 44. Connecting server progress window

Viewing Cameras

Overview

You can view cameras that were setup on the server from the remote software.If the connection is successful, a new screen appears showing the server IP, cameras, sensors, and controls:

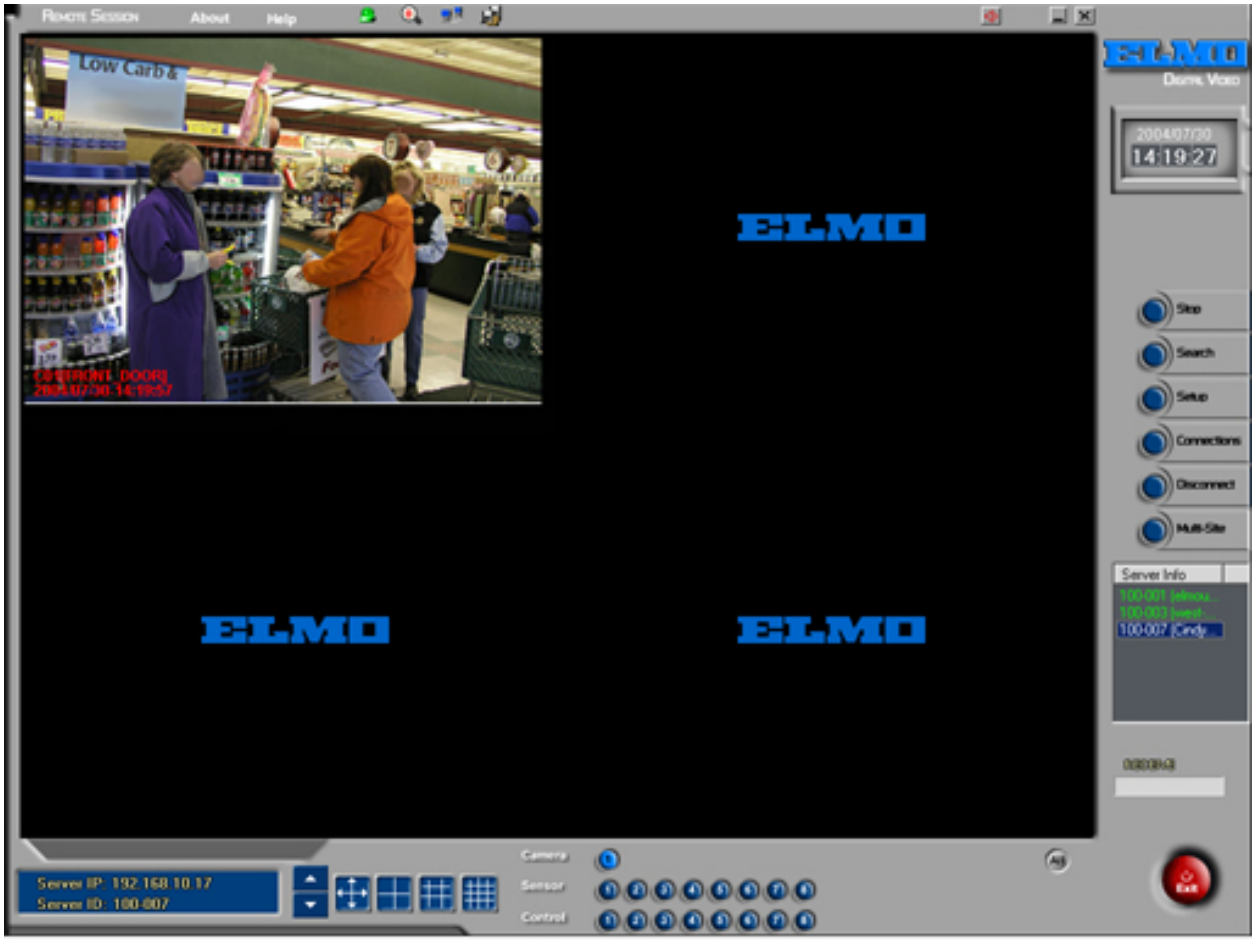


Figure 45. Remote Software Main Screen

Viewing Cameras on Your Server

To view cameras that are set up on your server, follow these steps:

1. On the main screen, select the cameras you wish to view.

   Note: The frame rate is affected by the number of cameras you've selected. You can also select controls to be activated if the server you are connecting to has controls set up.

2. Click on the View button to activate your camera(s).

   Note: If you do not select a camera and click View, the following prompt appears:

Figure 46. No camera selected prompt.

Note: If you are viewing existing cameras and you would like to add additional cameras, press the Stop button on the main screen, then select the other desired cameras.

Multiple Server Connections

Overview

It is possible to connect to multiple servers with ELMO DVR Remote. Once you have created multiple servers in the list of connections, you can connect to more than one server.

Connecting to Multiple Servers

To connect to multiple servers, follow these steps:

1. From the list of servers, double-click on the server you wish to connect to. The Connecting Server - LAN status window appears:

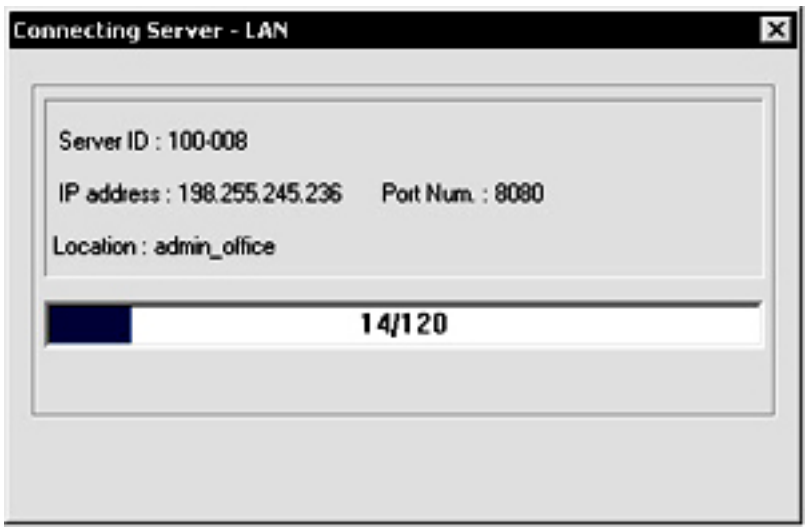


Figure 47. Connecting Server progress window

2. To view a different connected server click the up/down buttons on the multi-site selection tool:

Figure 48. Multi-Site selection tool

3. To stop viewing cameras on a server without disconnecting, click the Stop button on the main screen.
4. To stop viewing a camera, right-click on the camera name.

Disconnecting from Multiple Servers

To disconnect a connected server, follow these steps :

1. Select the server with the Server Select tool if there are more than one connected servers.

Figure 49. Multi-Site selection too.

2. Click the Stop button on the main screen.
3. Click the Disconnect button. The following window appears:

Figure 50. Disconnecting from a server.

4. Click Yes to disconnect or No to return to viewing the server.

   Note: If you are connected to a server and a user logs in and opens the setup page, you will be immediately disconnected from the server.

BACKING UP RECORDED VIDEOS LOCALLY

Backup Media Types

Overview

It is very important to backup (save) your data on a regular basis. This chapter will review the different types of backup media available on your ELMO DVR Remote software.

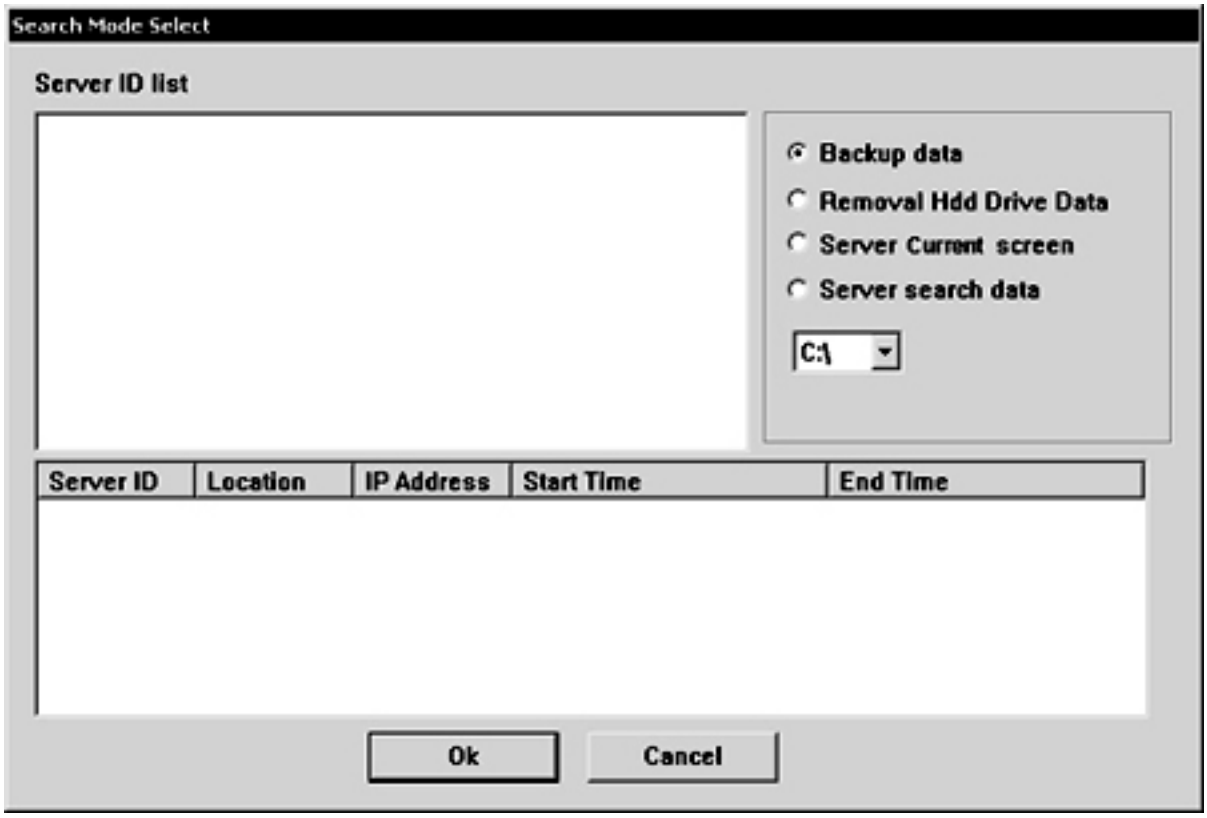


Figure 51. Search mode select window - Displays local drives to search from and backup types.

Backup data: This type of backup is done on a Hard Drive or CD-R Drive and is saved when a remote backup is done.

Removal HDD Drive Data: This backup is from a Hard Drive that was removed from a DVR and connected to a remote server with the remote software.

Server Current Screen: If configured on the Setup Configuration page, backups are done automatically when cameras are viewed on the main screen.

Server Search Data: This backup is performed when a server is searched remotely and recorded videos are played back from selected cameras.

Automatic Backup

Overview

While connected to a remote server, ELMO DVR Remote can be configured to backup cameras that are being viewed or cameras that were played from a recent search.

Configuring for Automatic Backups

To configure automatic backups, follow these steps:

1. Disconnect from all connected servers.
2. Click the Setup button on the main screen.
3. Click the Setup Configuration tab.
4. Locate the section Remote Video Recording:

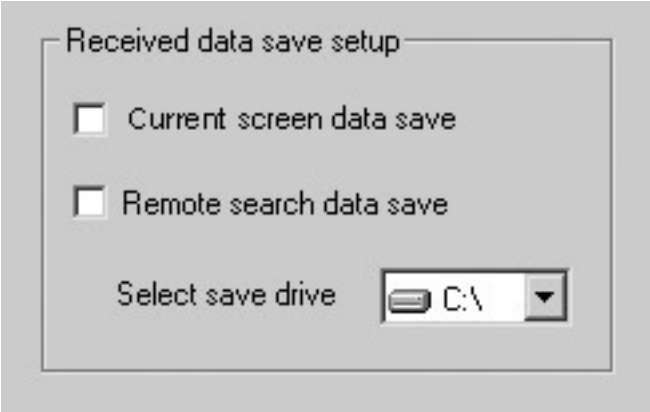


Figure 52. Remote video recording options

5. Check Record Live Video to record videos when viewing cameras in live mode.
6. Check Save Recorded Video on Search to record videos when playing back videos in Search mode while connected to a server.
7. Click the Select Drive drop down to choose the local drive on which the videos are to be backed up.
8. Click OK to save and close Setup.

Manual Remote Backup

Overview

Remote backup gives you three types of backup options: Snapshot , Encrypted(Time backup), and AVI backup. Encrypted and AVI backups are very similar, except for camera selection. In Encrypted Backup all the cameras are recorded automatically. In AVI Backup , you are given the option of selecting the cameras you wish to record, as well as the video compression method. Snapshot Backup gives you the option of saving a captured frame to selected media.

Note: K-Remote Backup Server MUST be running for any remote backup process to be done. (See K-Remote Backup Server)

Performing a manual Remote Backup

To perform a remote backup, follow these steps:

1. Connect to a server .
2. Click Search on the main screen.
3. Click the Backup button:

Figure 53. Search Mode- Backup button

4. Select Encrypted or AVI.
5. If you select Encrypted Backup choose the Start time, End time, and the Backup Media .
6. If you select AVI Backup, choose the cameras you wish to record, the video compression, and the AVI Caption:
7. Click OK to start the backup process. K-Remote Backup Server shows you that a backup is being done:

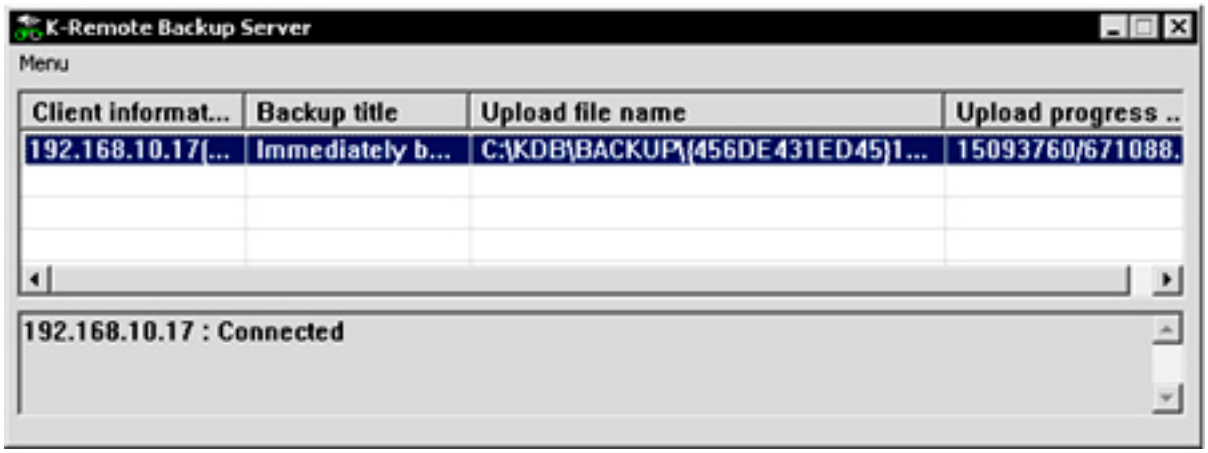


Figure 54. K-Remote Backup Server

Saving a Snapshot on Floppy Disk

To save a snapshot of a camera on a floppy disk, follow these steps:

1. Click Search on the main screen.
2. Select a date with data recorded. Dates with data are highlighted red on the calendar.
3. Select the camera you wish to play.
4. Click the Play button and play to the position at which you wish to take the snapshot.
5. Click the Stop button to stop playback.
6. Click on the screen of which you wish to take the snapshot.
7. Click the Backup button. The Backup dialog window appears.
8. Select the Snapshot option.
9. Select the media to save the snapshot on.
10. Select OK. A dialog box will appear asking if you would like to watermark the image to be saved.
11. Select Yes . The watermark will allow you verify whether or not your picture has been tampered with. The picture will be saved to diskette, enabling it to be opened with any graphics viewer.

Note: The picture is saved in either bitmap or JPEG format.

K-Remote Backup Server

Overview

K-Remote Backup Server MUST be running for any remote backup process to be done. When you perform a remote backup using ELMO DVR Remote 2003G, K-Remote Backup Server shows your backup progress:

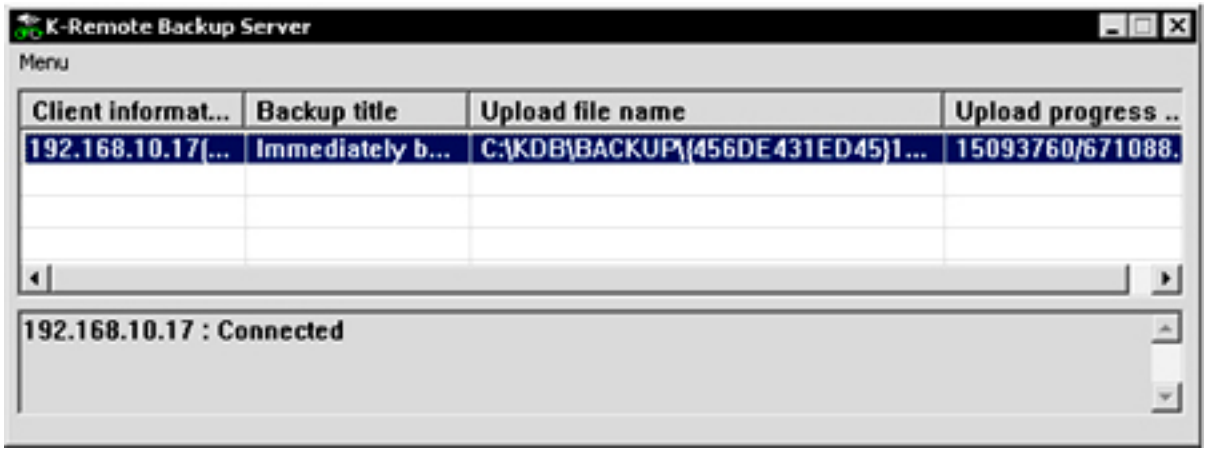


Figure 55. K-Remote Backup Server

You can cancel a backup process that is underway.

Cancelling a Backup Process

To cancel a backup process, follow these steps:

1. Click the Exit button in K-Remote Backup Server. The following window appears:

Figure 56. Disconnecting a K-Remote Backup process.

2. Click OK to terminate the backup process and close K-Remote Backup Server , or click Cancel to continue the backup process.

SEARCHING RECORDED VIDEOS

Searching Videos Stored on a Local Drive

Overview

You can search for recorded videos stored on your local drive by a previous backup.

Searching Videos Stored Locally

To search videos previously saved on a local drive, follow these steps:

1. Disconnect all servers.
2. Click Search on the main screen The following window appears:

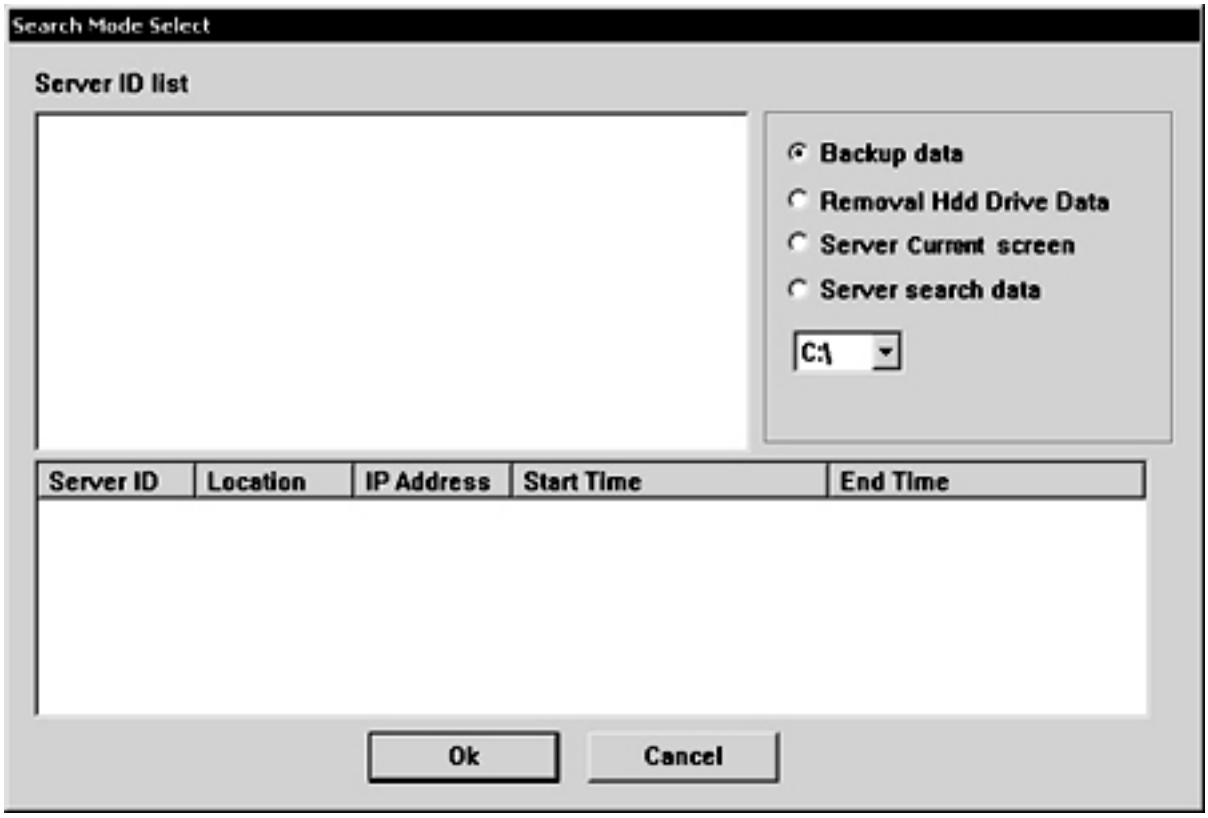


Figure 57. Search Mode Select window.

3. Select media types (See Backup Media Types) and select the appropriate local drive. Storage information appears regarding the Server Code List:

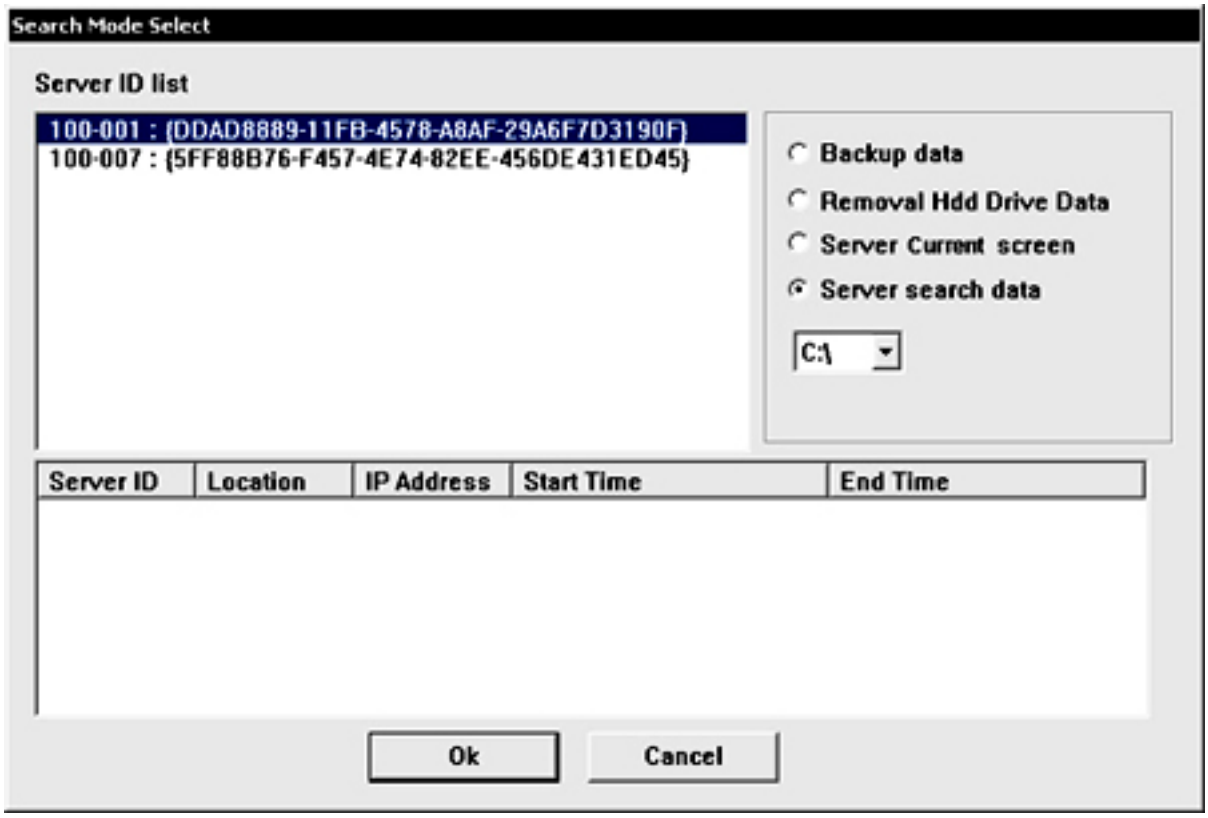


Figure 58. Search Mode Select window - Showing previous backup data.

4. Select the appropriate choice and press OK . The local search screen appears:

Figure 59. Local Video Search/Playback window

If Removal HDD Drive Data is selected, the same screen will appear, but video data will come from an internal or external hard drive. If Server Current Screen is selected, an option to view backed-up data stored on the remote PC will become available. If Server Search Data is selected, there is the option to search data that was backed up on the remote PC.

5. Select the time, date, cameras, and click Play .

Connected Server

Overview

Search videos on a connected server is different from searching locally. You must be connected to a server before you can peform a remote search.

Searching a Connected Server

To search a connected server, follow these steps:

1. Connect to a server.
2. Click Search on the main screen. The Search window appears:

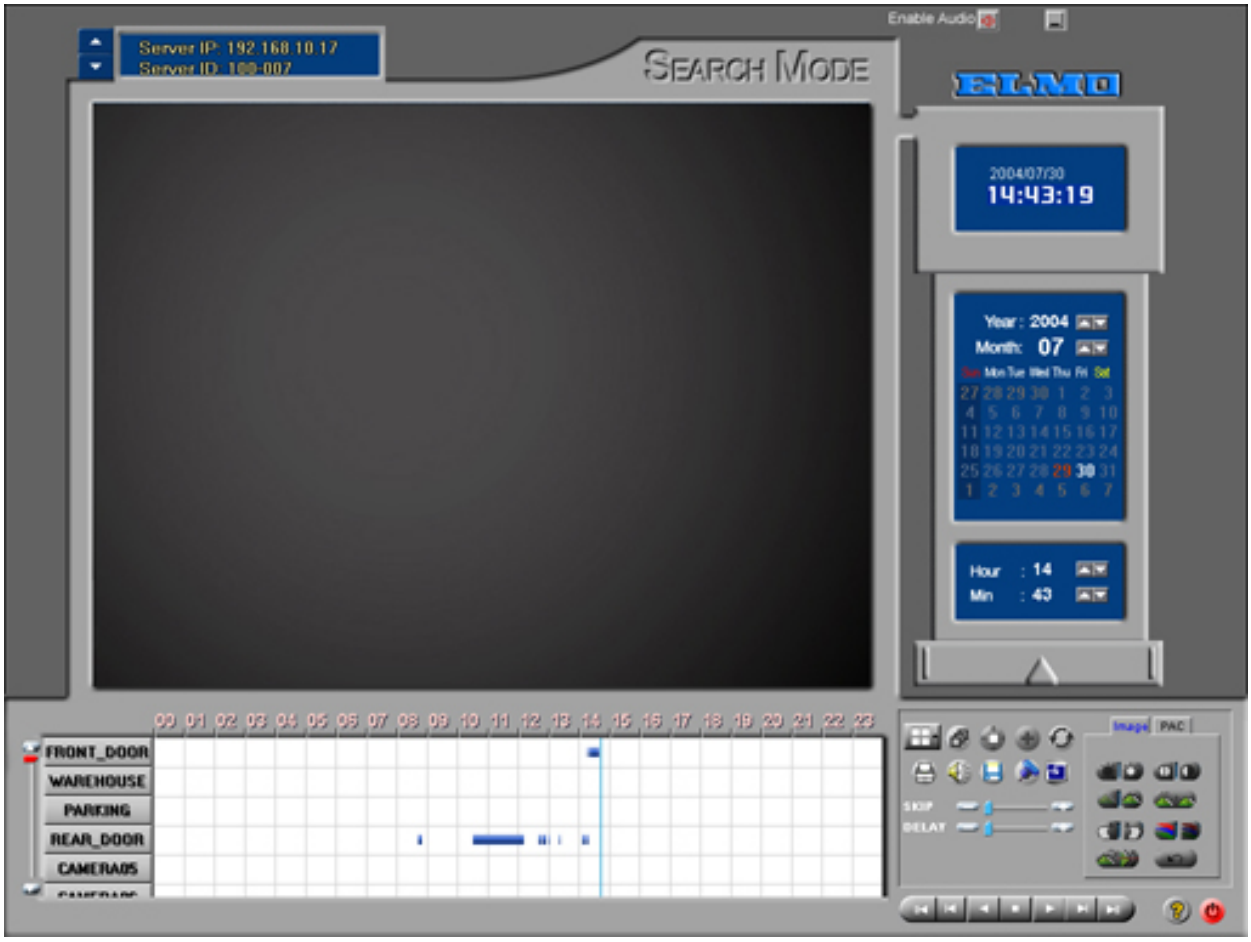


Figure 60. Remote Search/Playback window

3. Select the date, time, and cameras you need to playback; then use the playback buttons to playback the recorded video.

   Note: Red highlighted dates indicate data that has been recorded on that day. The time line shows which cameras have data recorded from them.

PERFORMING A LOCAL SETUP

Setup Configuration

Overview

A local setup refers to peforming configuration using the setup button without connecting to a server.

Note: If you are connected to a server and you press the setup button, a window similar to the Server's setup window is loaded.

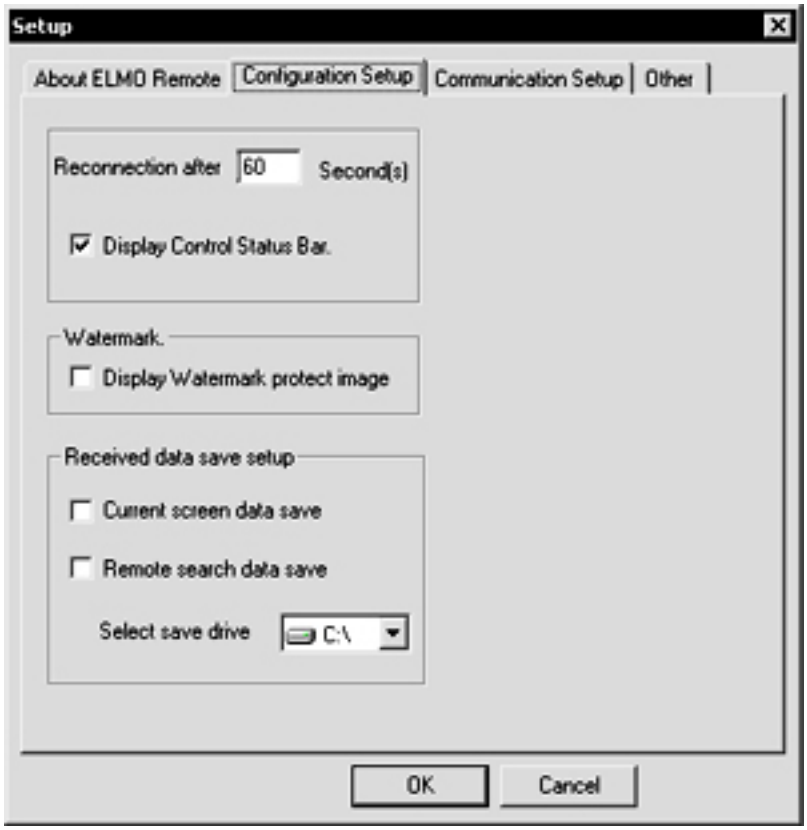


Figure 61. Local Setup Configuration

Watermark

This enables/disables the watermark function (watermark: a function that allows users to see if the picture was tampered with or not).

Remote Video Recording

This allows users to download video either in Search mode or Display mode.It also stores the data on your local hard drive.

Communications Setup

Overview

You use the communication setup to perform configurations related to connection type, and modem settings.

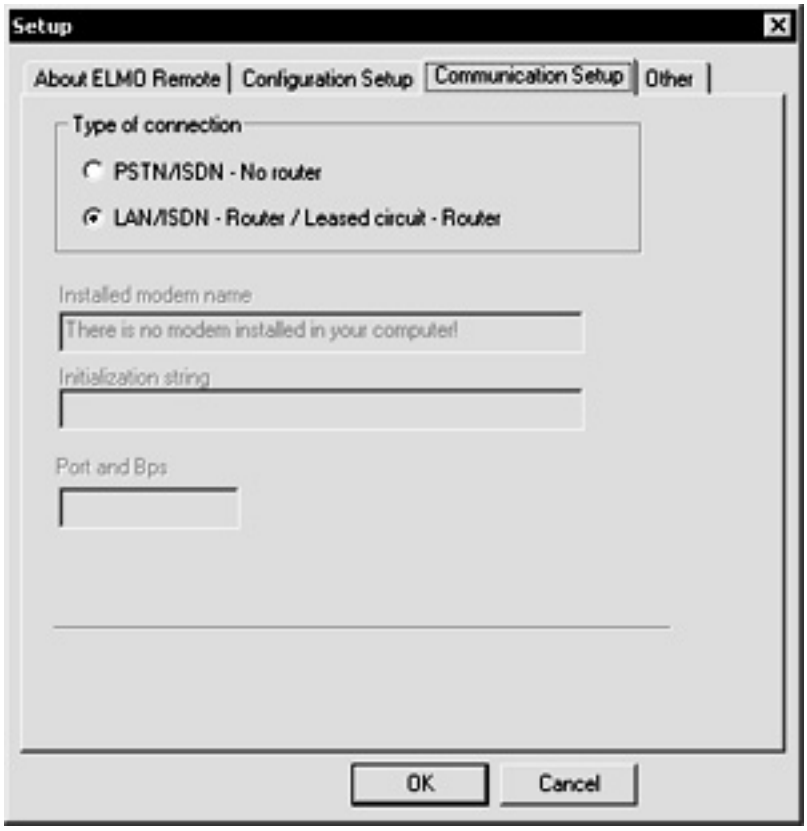


Figure 62. Local Communication Setup

Type of Connection: This allows users to choose between regular phone line or LAN/high speed Internet.

Installed Modem Name: Read-only text to describe the type of modem that is installed.

Other

Overview

On the the Other tab, you will configure Network Port Settings. If you do not understand the settings on this page, please see your Network Administrator.

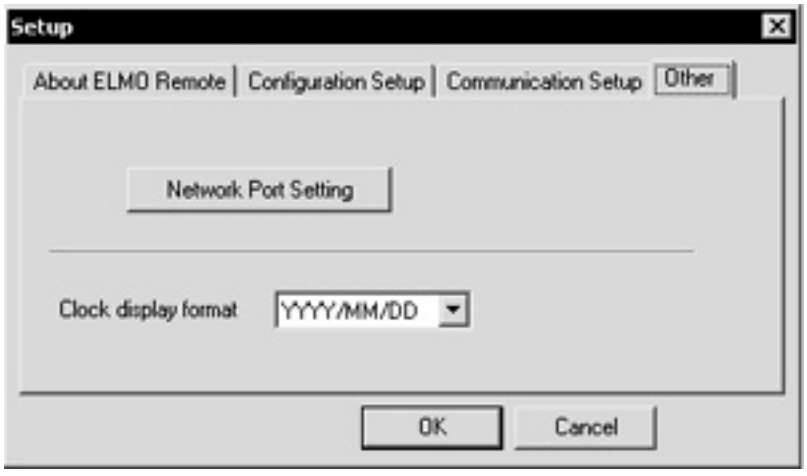


Figure 63. Local setup - Other Tab

Network Port Settings: Set the TCP/IP ports for various communication options between the server and the remote software.

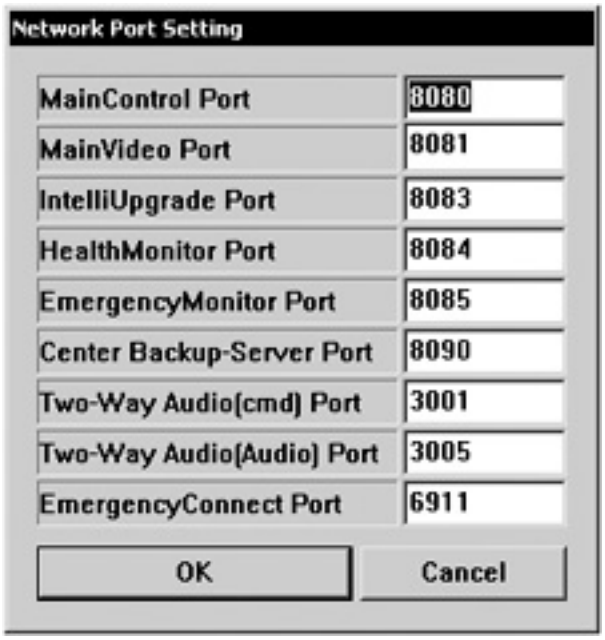


Figure 64. Network Port Settings window