



**INSTALLATION & USER'S
MANUAL**

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CHAPTER 1 - OVERVIEW

Congratulations on your purchase of a **VISTAplex™** Digital Video Recorder / Server (*DVRS*). This *DVRS* allows you to record real-time action at one location while simultaneously allowing you to monitor the action from a different location (e.g. home, office, motel room, etc.) via the Internet. **VISTAplex™** *DVRS* uses a standard Internet browser interface and features Local Viewing, Remote Viewing, and Remote Configuration. Data transmissions via the Internet are encrypted and password protected to prevent unauthorized access.

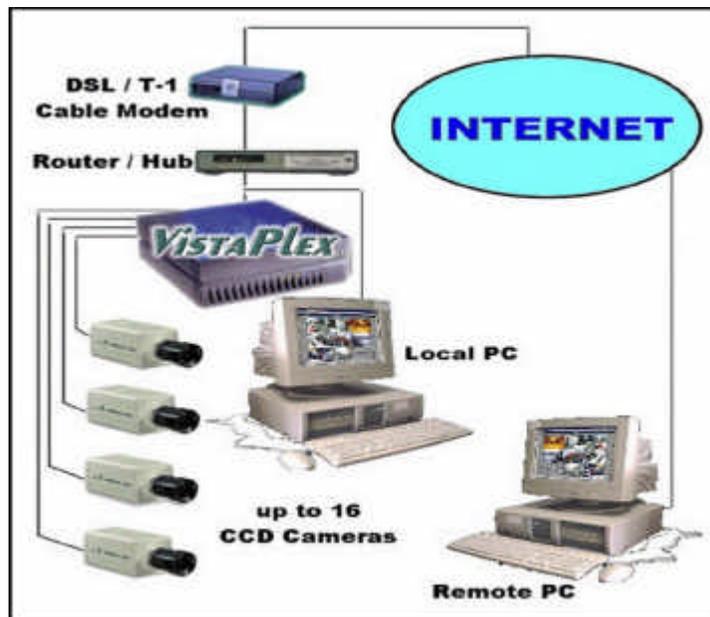
Before commencing installation and configuration of your **VISTAplex™** *DVRS* you should first verify that all of the components described in the “Package Contents” are enclosed.

If you have an existing CCTV system, some components may need to be replaced or upgraded. However, **VISTAplex™** *DVRS* will work with most units.

1.1 PACKAGE CONTENTS

- One (1) **VISTAplex™** *DVRS* unit
- One (1) **VISTAplex™** *DVRS* Installation Manual
- One (1) **VISTAplex™** *DVRS* Utility Disk entitled “Discover Network Dialog”.

1.2 SYSTEM FEATURES



VISTAplex™ is a full featured *DVRS* that can be integrated into a properly configured network environment.

It requires PAL or NTSC cameras.

For remote capabilities, a Cable Modem, DSL or other dedicated high-speed Internet connection is recommended.

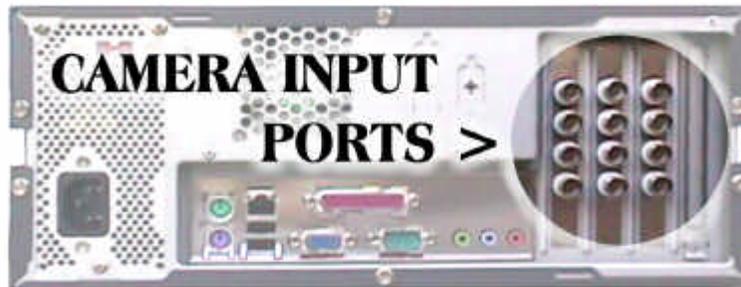
For remote viewing, any computer with Internet access and a standard browser. Internet Explorer 5 (or above) is suitable.

VISTAplex™ DVRS includes features of a traditional video surveillance system, plus additional features which make the *DVRS* much more powerful and user-friendly. Those features include:

- High quality digital video
- Two user definable frame rates per camera
- Real-time local and remote monitoring
- User definable compression ratio
- Single or group view monitoring layouts
- Remote playback
- Unlimited users viewing from remote locations
- Automatic file management
- Adjustable post motion detection recording
- User definable capture rate
- Triggered event browsing
- Fast database searching
- Scheduled recording times for each camera
- Motion detection settings for each camera
- Remote viewing of multiple cameras simultaneously

CHAPTER 2 - INSTALLATION

2.1 CONNECT CAMERAS



Step 1: Connect a camera cable to each camera.

Step 2: Connect the opposite end of each camera cable to a BNC Video Input connector located on the back of the **VISTA PLEX™ DVRS**.

TIP: AS EACH CAMERA IS CONNECTED TO THE BNC VIDEO INPUT, IT WOULD BE HELPFUL IN THE FUTURE IF YOU WOULD MAKE A WRITTEN NOTE IDENTIFYING EACH CAMERA BY A SPECIFIC NAME (OR LOCATION) AND THE CONNECTOR NUMBER (E.G. HALLWAY – CAMERA 1).

2.2 CONNECT RJ45 CABLE

Step 1: Insert the RJ45 cable into the NIC local connector on the back of the *DVRS*.



Step 2: Insert the opposite end of the RJ45 cable into the device that routes your TCP packets over the Internet. This device may be a phone line, cable

modem, Local Area Network (LAN), or the bridge provided by your Internet Service Provider (ISP).

2.3 INSTALL POWER CORD

Step 1: Insert the power cord securely into the power connector located on the back of the *DVRS*.

Step 2: Plug the opposite end of the power cord securely into a surge protected electrical outlet.

TIP: USE OF A BATTERY BACK UP SYSTEM (UPS) IS STRONGLY RECOMMENDED TO INSURE CONTINUED OPERATION DURING POWER DISRUPTIONS.

2.4 ACTIVATE CAMERAS

Step 1: Turn the power "ON" for each camera.

2.5 ACTIVATE *DVRS*

Step 1: Turn the **VISTAPLEX™** *DVRS* power "ON".

Step 2: After 1 – 2 minutes have elapsed, you should hear two beeps indicating that the installation was successful.

2.6 CONNECT WORKSTATION

You must have access to a Local PC or laptop (hereinafter referred to as "workstation") at the installation site in order to configure the **VISTAPLEX™** *DVRS*. If the workstation is connected to a network, proceed directly to Chapter 3 – Configuration. If the workstation is not connected to a network, do the following steps.

Step 1: Turn the power switch on the workstation to the "OFF" position.

Step 2: Connect the workstation to the **VISTAPLEX™** *DVRS* via a cross-over cable connection.

Step 3: Turn the power switch on the workstation to the "ON" position.

CHAPTER 3 - CONFIGURATION

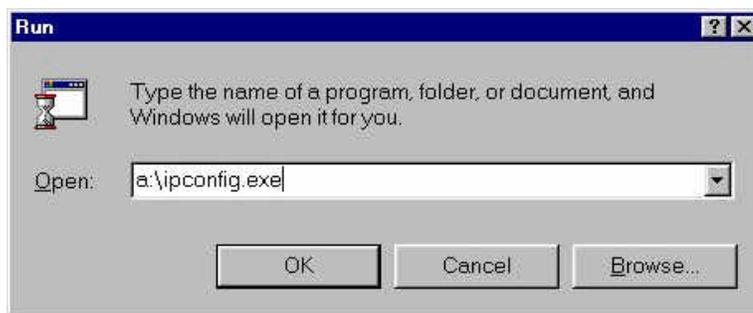
The **VISTAPLEX™ DVRS** will automatically detect the operating interfaces such as network type (e.g. Ethernet or Local PC), network speed (e.g. 10 MBPS or 100 Mbps), and camera type (e.g. NTSC or PAL). However, there are additional configuration settings that must be made at the time of installation. This chapter addresses each of those settings.

3.1 NETWORK SETTINGS

The most important aspect of setting up the **VISTAPLEX™ DVRS** for future easy access is in the proper configuration of the network settings. The disk entitled “Discover Network Dialog” contains an IP configuration utility which allows you to set the TCP/IP properties for your network, including **IP Address**, **Netmask**, **Gateway**, and **DNS**.

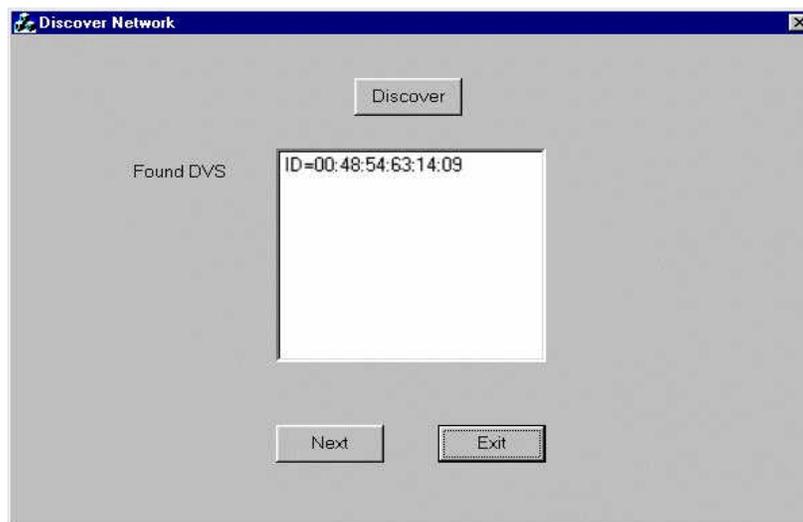
Step 1: Insert the “Discover Network Dialog” utility disk into the workstation's drive / tray.

Step 2: Click **Start**, then click **Run** and the following screen will appear.



Step 3: In the “**Open**” field, type the “drive:\ipconfig.exe” (Ex: c:\ipconfig.exe).

Step 4: Click **OK**. The **Discover Network** dialog screen will appear.



Step 5: Click the **Discover** button. The **MAC ID** of your network will be detected.

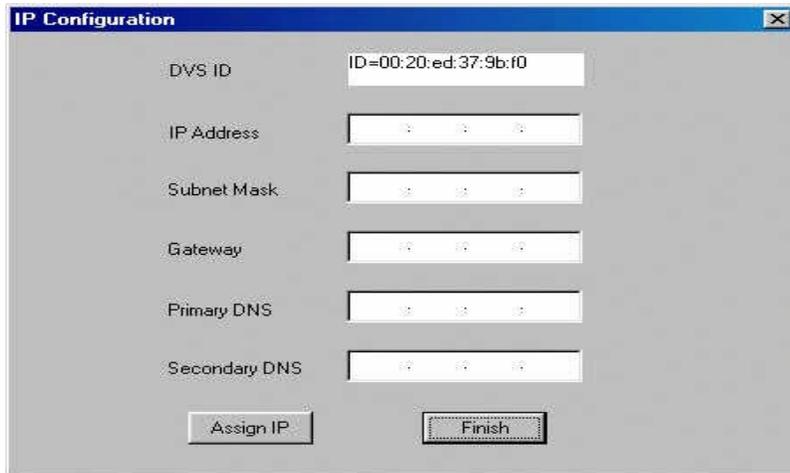
TIP: FOR FUTURE REFERENCE, MAKE A NOTE OF THE MAC ID NUMBER SHOWN IN THE FOUND DVS FIELD.

MAC ID # _____



Step 6: Highlight the **Found DVS** number that is shown in the field by clicking on it.

Step 7: Click the **Next** button to display the **IP Configuration** screen.



Step 8: The **Found DVS (MAC ID)** number will appear in the **DVS ID** field.

The remaining settings will be unique to your network environment. If you are configuring the **VistaPlex™ Dvrs** into a dedicated Internet connection, then you must obtain the setting information from your Internet Service Provider. If the **VistaPlex™ Dvrs** is being configured into a private network, then the settings should be the same as any workstation on the network, with the exception of the IP Address.

WARNING: IF YOU DO NOT UNDERSTAND THESE SETTINGS, PLEASE GET HELP BEFORE PROCEEDING! ENTERING CONFLICTING OR INCORRECT INFORMATION MAY CAUSE A NON-RECOVERABLE ERROR REQUIRING THAT THE MANUFACTURER RENDER REPAIR SERVICES.

VistaPlex™ Dvrs Installation & User's Manual

TIP: IT WOULD BE HELPFUL TO MAKE A NOTE OF THE SETTINGS FOR FUTURE REFERENCE PURPOSES.

IP ADDRESS: _____

SUBNET MASK: _____

GATEWAY: _____

PRIMARY DNS: _____

SECONDARY DNS: _____

WARNING: FOLLOWING STANDARD NETWORKING PROTOCOLS, THE IP ADDRESS MUST BE UNIQUE AS NO TWO MACHINES IN A NETWORK CAN HAVE THE SAME IP ADDRESS.

Step 9: In the **IP Address** field, input the IP Address that you wish to assign to the *DVRS*.

Step 10: Input your **Subnet Mask** assignment.

Step 11: If you have one, input your **Gateway** assignment.

Step 12: Input your **Primary DNS** (primary Domain Name Server (obtained from your Internet Service Provider).

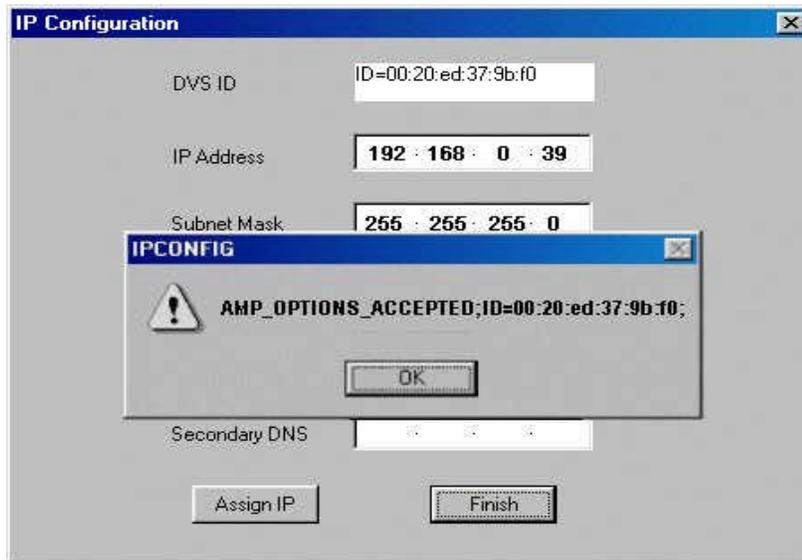
Step 13: Input your **Secondary DNS** assignment (secondary Domain Name Server (obtained from your Internet Service Provider).

Step 14: Verify the correctness of the information you have input. Again, it is very important that this information is entered correctly before proceeding with the remaining steps.

The screenshot shows a window titled "IP Configuration" with a close button (X) in the top right corner. The window contains the following fields and buttons:

- DVS ID:** ID=00:20:ed:37:9b:f0
- IP Address:** 192 · 168 · 0 · 39
- Subnet Mask:** 255 · 255 · 255 · 0
- Gateway:** 192 · 168 · 0 · 1
- Primary DNS:** [Empty field with three dots]
- Secondary DNS:** [Empty field with three dots]
- Buttons:** "Assign IP" and "Finish" (disabled)

Step 15: Click the **Assign IP** button to store your network settings in the **VISTAplex™ DVRS**. The **IPCONFIG** screen will open.



Step 16: Click **OK** on the **IPCONFIG** screen.

Step 17: Click **Finish** on the **IP Configuration** screen.

Step 18: Repeat Steps 3 – 17 to assign network properties to each additional **VISTAplex™ DVRS** being installed.

Step 19: Click **Exit** on the **Discover Network** screen.

CHAPTER 4 - SYSTEM ADMINISTRATION

Step 1: Open your Internet browser (Internet Explorer version 5.0, or higher) is recommended.



Step 2: Input the IP Address that you assigned in Chapter 3.1 into the URL Address box located at the top of the browser.

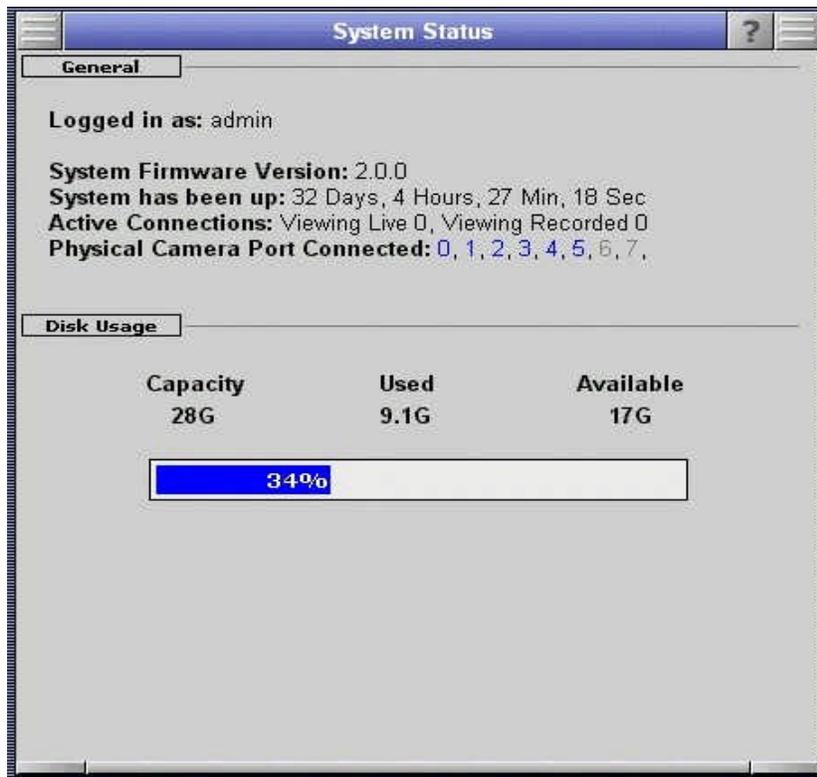
Step 3: Click **Go**, or press the **Enter** key.



Step 4: Input the following default administrator information:

Username: admin
Password: 2222

Step 5: Click **OK**. You should then see the **System Status** screen.



The System Status screen reveals pertinent information regarding your **VISTA PLEX™ DVRS** as follows:

Logged in as: Displays the status under which you are currently logged into the *DVRS* (i.e. “admin” or “user”).

System Firmware Version: Displays the **VISTA PLEX™ DVRS** version number.

System has been up: Displays (in days, hours, minutes and seconds) exactly how long the *DVRS* has been consecutively active.

Active Connections: Displays the number of users currently viewing the *DVRS*’ “Live” and “Recorded” video.

Physical Camera Port Connected: Displays the number of camera ports available on the *DVRS*. Active camera port numbers are highlighted. Inactive camera port numbers are dimmed.

Disk Usage: Displays the current status of the *DVRS*’ storage, as follows:

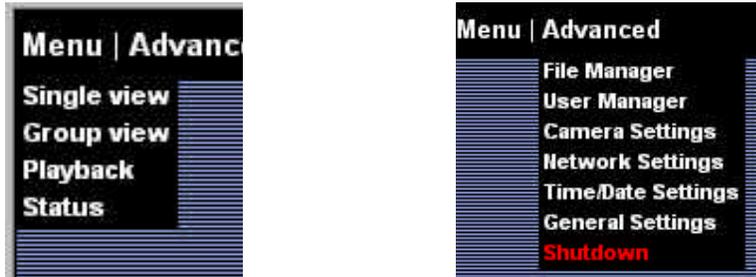
Capacity: Indicates the maximum disk storage space available on the *DVRS*.

Used: Indicates the amount of disk storage space currently in use.

Available: Indicates amount of unused disk space currently available.

%: Indicates percentage of disk storage space occupied by data files.

The Menu Bar is located on the title bar at the top of the Internet Explorer window. It contains a drop-down list for Users and the Administrator.

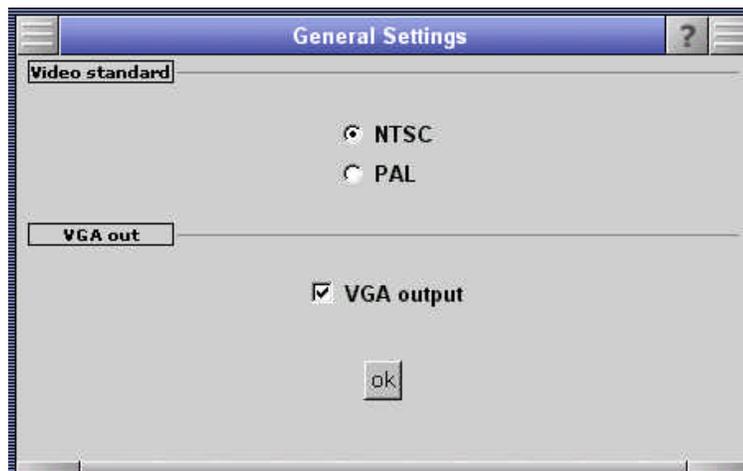


The options listed on the left side of the **Menu / Advanced** drop-down list are available to both Users and the Administrator.

The options listed on the right side of the **Menu / Advanced** drop-down list are visible only when someone is logged in as “**admin**”. Those options are disabled when someone is logged in as “**user**”.

4.1 GENERAL SETTINGS

General Settings are accessed by selecting the sixth option under the **Advanced** drop-down list.



This screen allows you to do the following::

Select video standard: Allows you to configure your video settings as either:

NTSC (National Television System Committee) – the format used in the United States; or

PAL (Phase Alternating Line) – the format used in European countries.

VGA Output: Allows you to view the cameras on a “Local” VGA Monitor.

WARNING: THE VIDEO STANDARD SELECTED AT THIS POINT WILL BE IN EFFECT THE NEXT TIME THE SYSTEM IS “REBOOTED”.

Step 1: Select the **Video Standard** appropriate for your cameras.

Step 2: Select **Local View** only if you want to allow your **VISTAplex™ DVRS** to be utilized for local viewing.

Step 3: Click **OK**.

4.2 USER MANAGER SETTINGS

User Manager settings are accessed by selecting the second option under the **Advanced** drop-down menu list.



The **User Manager** screen allows you to **Add User**, **Delete User**, assign **User Rights** and **Change Passwords**.

4.2.1 Change Passwords

VISTAplex™ DVRS allows two levels of password access – “admin” and “user”.

The “admin” level is the highest level of security and enables the administrator to configure the settings, assign passwords, and perform all general user functions. Users are able to access the *DVRS* only for the purposes of viewing current and recorded video. **Default** passwords existing in the *DVRS* at the time of installation are as follows:

Administrator:	Username	=	admin
	Password	=	2222
User:	Username	=	user
	Password	=	1111

Step 1: Determine a new password for the administrator.

TIP: MAKE A NOTE OF THE NEW PASSWORD AND STORE IT IN A SECURE LOCATION.

WARNING: ONCE THE ADMIN PASSWORD HAS BEEN CHANGED, THERE IS NO WAY TO RETRIEVE OR RECOVER IT AT A LATER TIME.



Step 2: Click **Change Passwords** on the **User Manager** screen.



Step 3: Click the drop-down box beside **Change password for**.

Step 4: Click on **admin**.

Step 5: In the **New Password** box, type your new password.

Step 6: Retype the new password in the **Confirm Password** box.

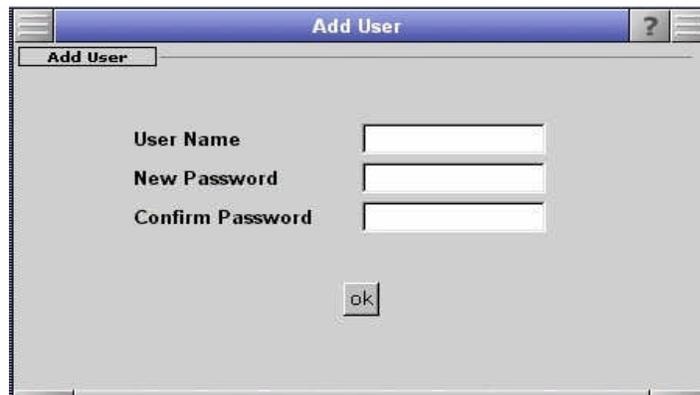
Step 7: Click **OK** to save the new password.

4.2.2 Add User

TIP: A LIST OF ALL USER'S, AND THE PASSWORD FOR EACH, SHOULD BE KEPT BY THE ADMINISTRATOR IN A SECURE PLACE FOR FUTURE REFERENCE.



Step 1: Click **Add User** on the **User Manager** screen.



Step 2: Type the new user's name into the **User Name** box.

Step 3: Type the new user's password in the **New Password** box.

Step 4: Retype the new user's password in the **Confirm Password** box.

Step 5: Click **OK** to add the new user.

Step 6: Repeat Steps 1 – 5 for each new user. A maximum of 256 users are allowed.

4.2.3 Delete User



Step 1: Click **Del User** on the **User Manager** screen.



Step 2: Select the User's Name from the drop-down list.

Step 3: Click **OK** to delete the selected user.

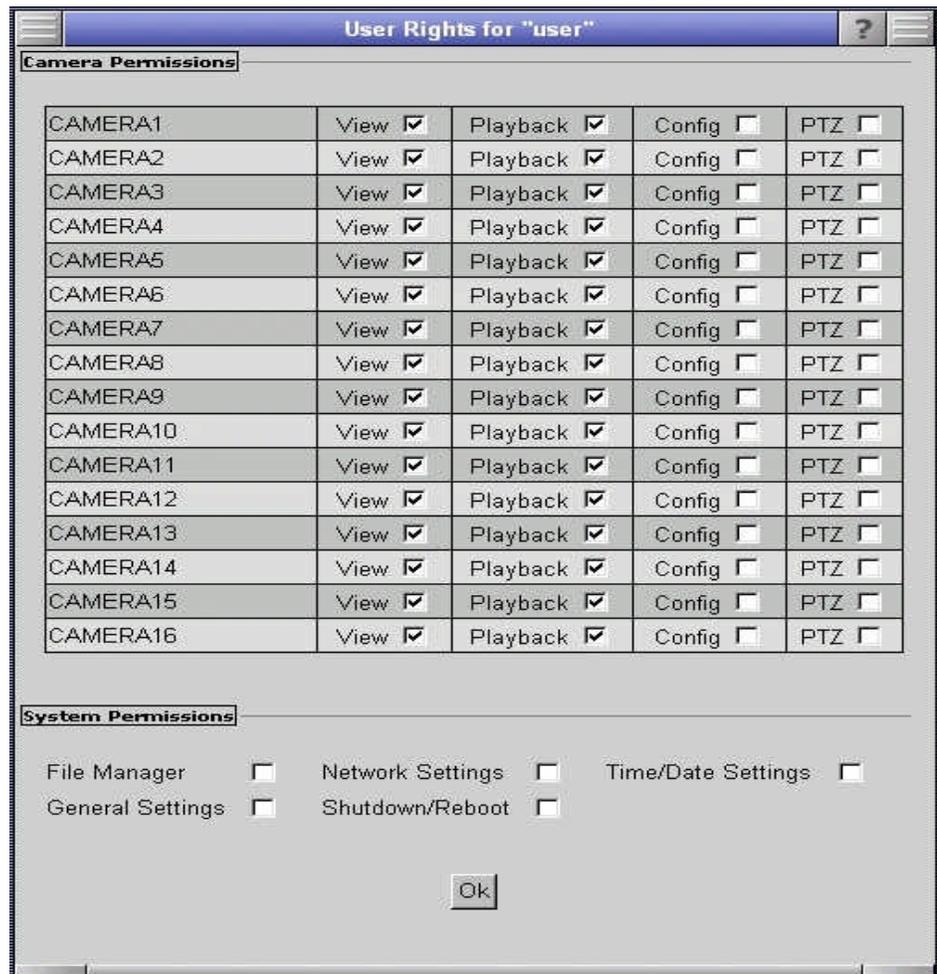
4.2.4 User



Step 1: Click **User Rights** on the **User Manager** screen.



Step 2: **Select User's** name from the drop-down list on the **User Rights** screen. The **User Rights for "user"** will then open.



The **Camera Permissions** section of the **User Rights for "user (i.e., name of user)"** allows the administrator to set the rules, by camera, for the user. Definitions for each option are as follows:

View: Allows the user to view the images currently being viewed by the camera.

Playback: Allows the user to playback images previously captured by the camera.

Config: Allows the user to configure the settings for the camera.

PTZ: Allows the user to reposition the angle of the camera via the Pan-Tilt-Zoom features of the camera.

By clicking on the box adjacent to the option, you can put a check mark in the box, or remove a check mark from the box. A check mark in the box indicates that the user has access rights to that feature.

Step 3: For each camera, put a check mark beside each option that you want the user to have rights to access.

The **System Permissions** section allows the administrator to set the rules governing each user's access to the system settings. Definitions for each option are as follows:

File Manager: Allows user to copy and delete files.

Network Settings: Allows user to change network settings.

Time/Date Settings: Allows user to reset time and date settings.

General Settings: Allows user to change camera types etc.

Shutdown/Reboot: Allows user to shutdown or reboot the system.

By clicking on the box adjacent to the option, you can put a check mark in the box, or remove a check mark from the box. A check mark in the box indicates that the user has access rights to that feature.

Step 4: For each **System Permission** that you wish to grant to the user, put a check mark in the appropriate box.

Step 5: Click **OK** to accept the designated **User Rights**.

Step 6: Repeat Steps 1 – 5 for each user.

4.3 CAMERA SETTINGS



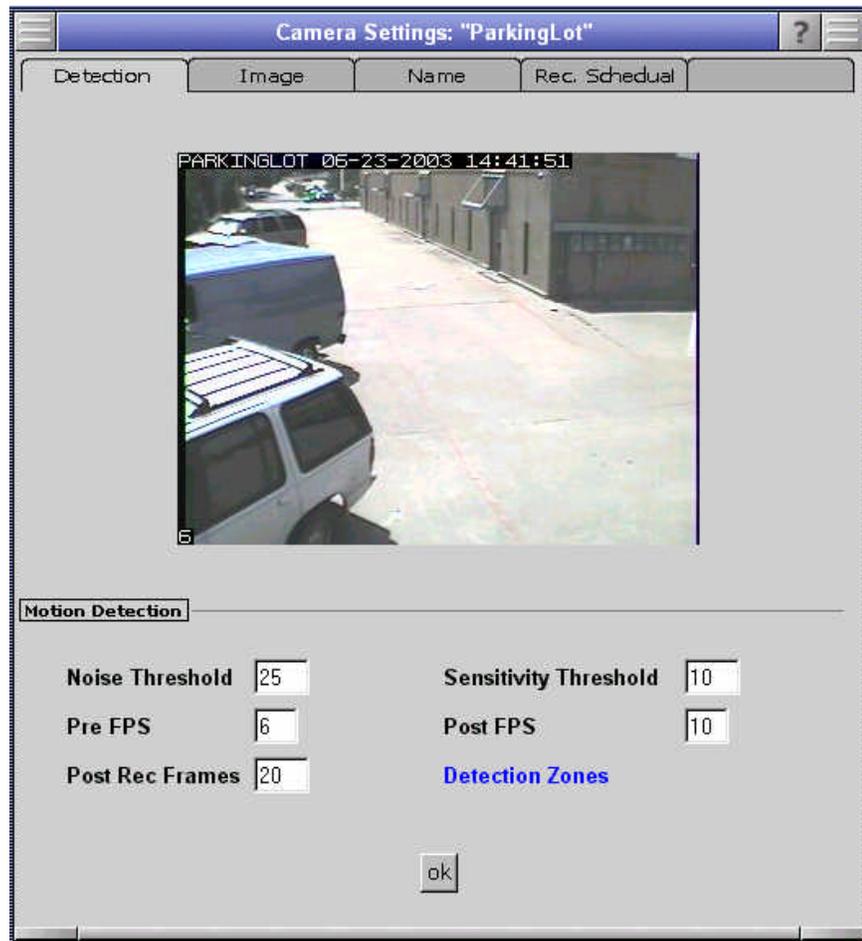
The **Camera Settings** option on the **Advanced Menu** allows the system administrator to set the properties of each camera. The camera property settings affect the video image reflected on the screen, and the text displayed above the video image.

Step 1: Click on **Camera Settings** in the **Advanced Menu**. The following **Camera Settings** screen will open.



Step 2: Select the desired camera from the **Select Camera** drop-down list.

Step 3: Click **OK**. The following **Camera Settings: “[camera name]”** screen will open.



4.3.1 Detection

The **Detection** tab allows the system administrator to set the appropriate values for each of the camera setting parameters.

Step 1: Click on the **Detection** tab located on the **Camera Settings: “[camera name]”** screen.

Step 2: **Noise Threshold:** All cameras generate internal noise that is not detectable by the human ear or eye. The **VISTAplex™ DVRS** does detect the internal noise and may consider it to be motion. Such camera noise detection may cause “false triggers” which can result in non-events being recorded by the camera. This setting compensates for the internal noise generated by a

camera. The lower this setting, the less compensation for noise and a higher risk of a “false trigger” when no motion is occurring. Default value for this setting is 70. Input the desired value for this setting.

TIP: A CONSTANT RECORDING STATE CAN BE PRODUCED BY SETTING THIS VALUE TO “0”.

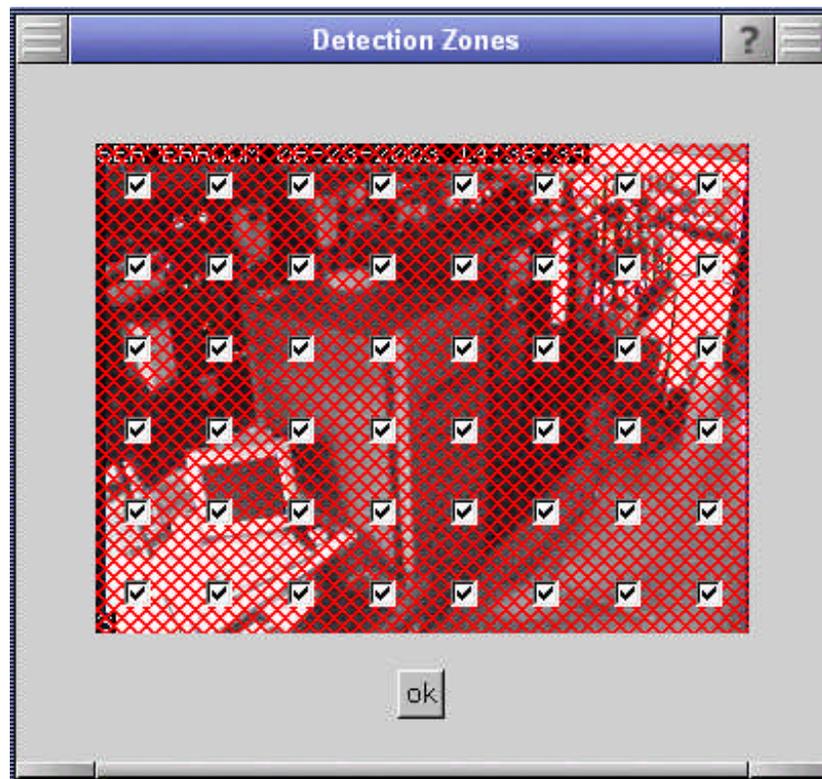
Step 3: **Sensitivity:** This parameter establishes how sensitive the camera will be to motion. The higher the setting, the more sensitive the camera will be. Set this value as high as possible while avoiding a “false trigger” when no motion is occurring. Default value is 70. Input the desired value for this setting.

Step 4: **Pre FPS:** This parameter establishes the number of Frames Per Second (FPS) that is displayed prior to motion being detected. The smaller the number, the more system resources are available for motion detection and capture. Input the desired value for this setting.

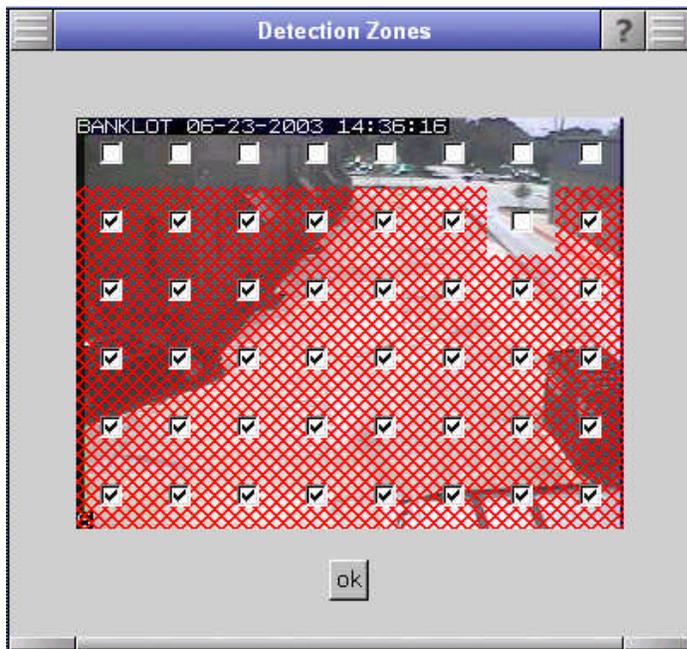
Step 5: **Post FPS:** This parameter establishes Frames Per Second (FPS) the **VISTA PLEX™ DVRS** will capture video when motion is detected. For non-critical areas, such as parking areas, a setting of 4 or 5 is usually ample. Experiment with this setting to determine the smallest acceptable number. Input the desired value for this setting.

Step 6: **Post Rec Frames:** This parameter establishes how many frames will be recorded after detected motion has stopped. Hard disk usage must be considered when defining this value; therefore, you should enter as small of a number as possible. Available options are from 1 to 999. Default value is 1. Input the desired value for this setting.

Step 7: **Detection Zones:** When this option is clicked, a new screen will open revealing one frame.



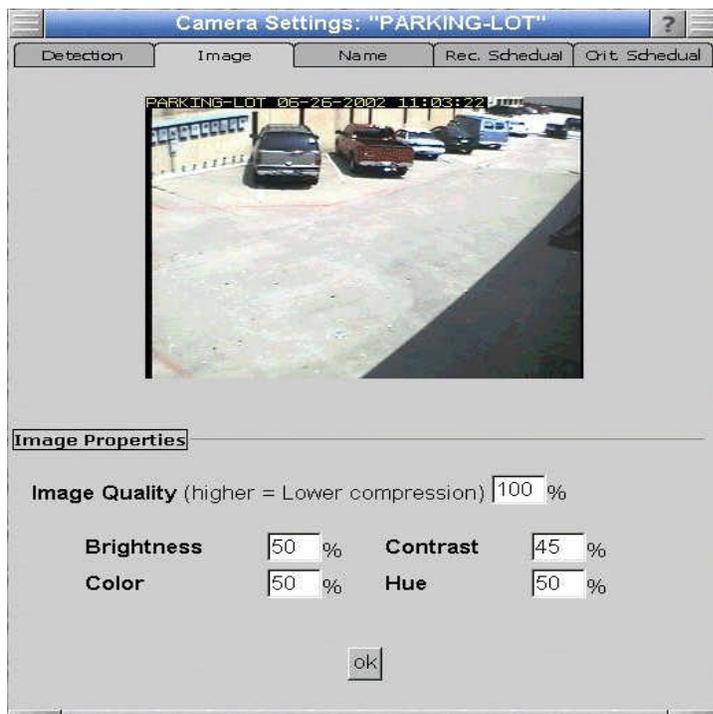
Clicking on a box within this mask will remove the check mark in the box thereby disabling that area's ability to detect motion. An example is shown below:



Step 8: Click **OK** to save the **Detection Zone** settings.

4.3.2 Image

Step 1: Click on the **Image** tab.



TIP: THE RANGE FOR EACH OF THE FOLLOWING FIELDS IS 0% - 100%)

- Step 2: **Image Quality:** This parameter sets the amount of compression of the stored JPEG images. The higher the setting, the better the image quality. Default value is 50%. Input the desired value.
- Step 3: **Brightness:** This parameter establishes the brightness of the image. The higher the setting, the brighter the image. Default value is 50%. Input the desired value.
- Step 4: **Contrast:** This parameter establishes the contrast of the image. The higher the value, the more definition between the light and dark areas of the image. Default value is 50%. Input the desired value.
- Step 5: **Color:** This parameter establishes the amount of color in the image. The higher the value, the more intense the color. Default value is 50%. Input the desired value.
- Step 6: **Hue:** This parameter establishes the hue of the image. Hue is what is usually defined as the color of an object. The hue of the sky is blue, the hue of a banana is yellow, and the hue of an apple is red. Default value is 50%. Input the desired value.
- Step 7: Click **OK** to save the new settings.

4.3.3 Name

- Step 1: On the **Camera Settings** screen, click the **Name** tab.

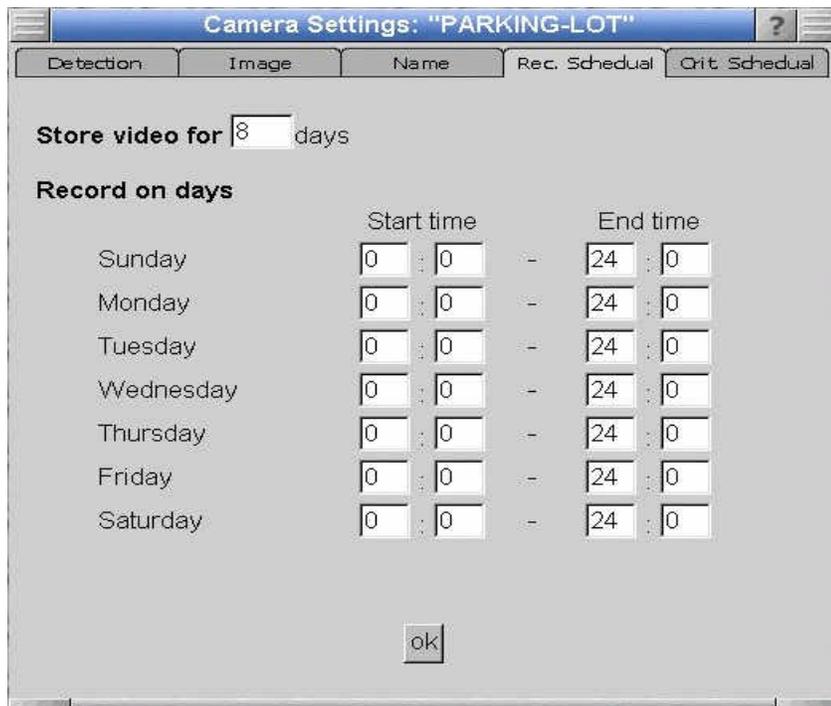


TIP: EACH CAMERA MUST HAVE A UNIQUE NAME.

- Step 2: Input a name for the camera that you can easily recognize in the future.
- Step 3: Click **OK** to save your settings.

4.3.4 Recording Schedule

Step 1: On the Camera Settings screen, click the **Rec. Schedule** tab.



Step 2: **Store video for:** Establishes the number of days that the images will be recorded and stored in the primary storage folder. For example, if the number of days specified is 15, the system will keep 15 completed days of recorded video, plus the current incomplete day. On the 17th day, the data file for day 1 will be deleted, still leaving you with 15 days of recordings, plus the current incomplete day. Input the number of days that you want to store in the primary storage folder.

Step 3: **Record on days:** Allows you to designate the day of the week and times during that day that images are to be recorded and stored in the primary storage folder. The times are based on military time. Input the hours for each day of the week that you want to record and store video.

TIP: IF THE DESIGNATED START TIME IS EARLIER THAN THE END TIME, THE FRAMES WILL RECORD WHEN MOTION IS DETECTED BETWEEN THOSE TIMES. IF THE DESIGNATED START TIME IS LATER THAN THE END TIME, THE FRAMES WILL RECORD WHEN MOTION IS DETECTED BETWEEN THOSE TIMES, THEN RECORD FROM THE START TIME TO THE END OF THE DAY.

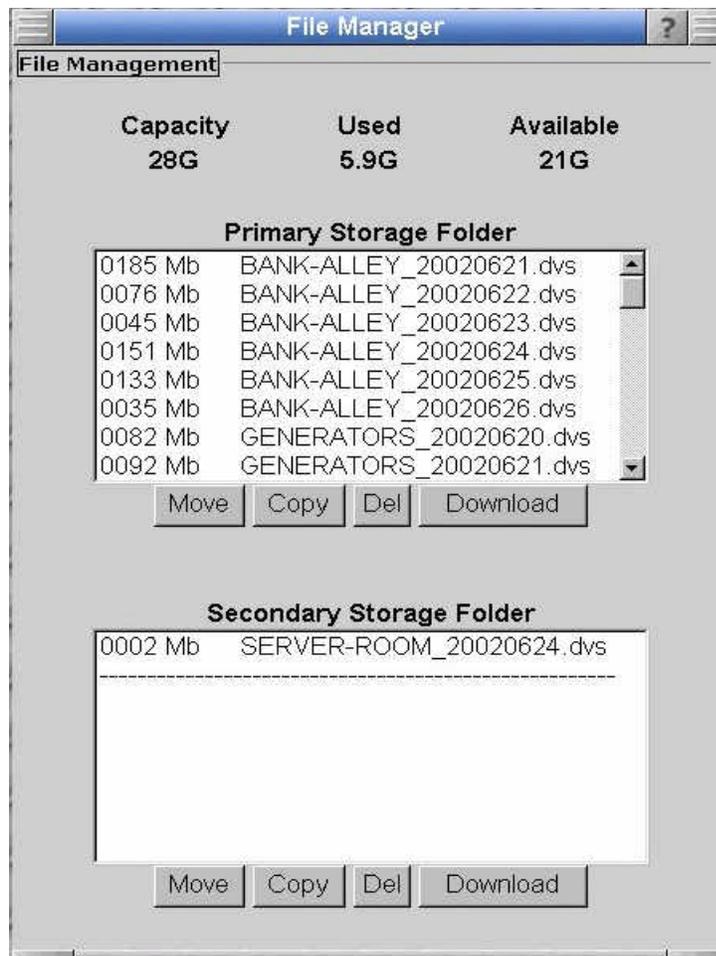
Step 4: Click **OK** to save the new settings.

4.4 FILE MANAGER SETTINGS



The **File Manager** option in the **Advanced Menu** allows the administrator to manage and view stored data files.

Step 1: Click on **File Manager**.



Capacity: Designates the storage capacity of your system.

Used: Designates the amount of the of the storage capacity that is being used by the system.

Available: Designates the amount of storage capacity that is currently unused, i.e. available for use, by the system.

Primary Storage Folder: Contains the recorded files for each **Camera Name** and the date of the recording in the form of Year, Month and Day, as designated by the administrator in the **Camera Settings** section. The files are automatically deleted upon expiration of the number of days set in the **Recording Schedule** section, unless manually moved to the **Secondary Storage Folder**.

Secondary Storage Folder: Allocated for permanent storage of recorded files. Files stored in this folder will remain there until manually deleted by the administrator.

4.4.1 Move

This feature allows the administrator to move a stored file to a different folder.

Step 1: Click on the desired file name to select it.

Step 2: Click the **Move** button located directly under the storage folder in which the file is originally located.

Step 3: The file is automatically moved to the other folder.

4.4.2 Copy

This feature allows the administrator to maintain a duplicate copy of a file in both folders.

Step 1: Click on the desired file name to select it.

Step 2: Click the **Copy** button located directly under the storage folder in which the file is originally located.

Step 3: The file is automatically copied into the other folder.

4.4.3 Delete

This feature allows the administrator to permanently delete a file from a folder.

Step 1: Click on the desired file name to select it.

Step 2: Click the **Del** button.

Step 3: The file is now permanently deleted from the storage folder.

4.4.4 Download

This feature allows the administrator to download a file to a remote location.

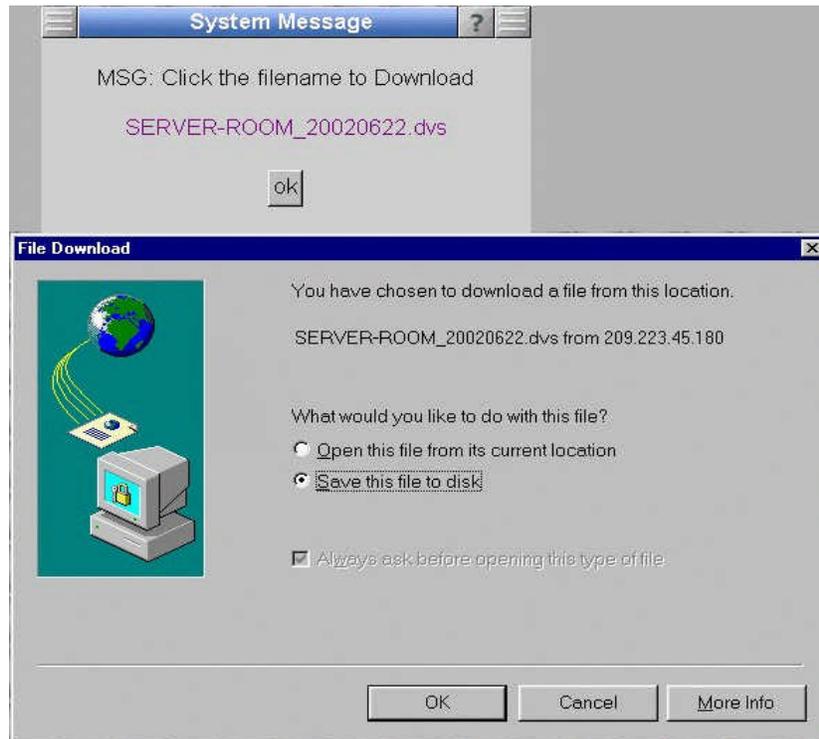
Step 1: Click on the desired file name to select it.

Step 2: Click the **Download** button.



Step 3: Click the file name on the **System Message** screen.

Step 4: Click **OK**.



The **File Download** screen will open.

Step 5: Click the **Save this file to disk** button.

Step 6: Click **OK** on the **File Download** screen.

4.4.5 Cancel Download

This feature allows you to cancel the downloading of a file.

Step 1: Click **Cancel** on the **File Download** screen and you will be returned to the File Manager screen

4.5 SAVING CONFIGURATION SETTINGS

Performance of all steps contained above in Chapter 3 and Chapter 4 completes the initial configuration settings for the **VISTAplex™ DVRS**. Follow the instructions in Chapter 5 to reboot or shut down the system to save the new settings.

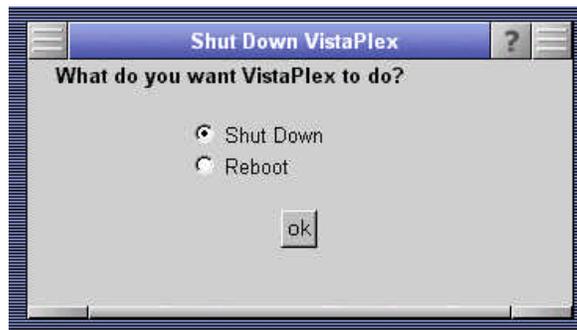
WARNING!!! DO NOT PUSH THE POWER SWITCH WITHOUT DOING A PROPER SYSTEM SHUTDOWN.

CHAPTER 5 - SHUTDOWN / REBOOTING SYSTEM

The **VistaPlex™ Dvrs** must be shutdown properly. It cannot be shutdown by hitting the power switch as doing so will result in data loss and corruption of the storage drive. The system must be rebooted or shutdown via the **Shut Down** option in the **Advanced Menu**.

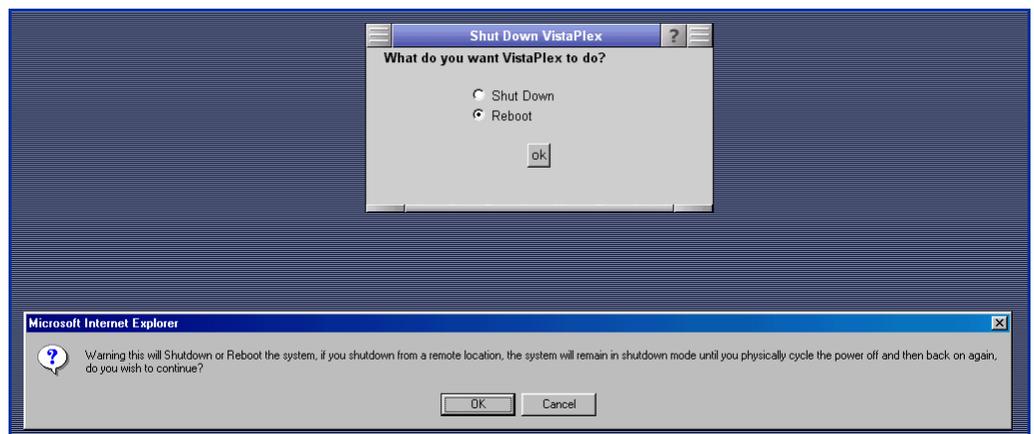


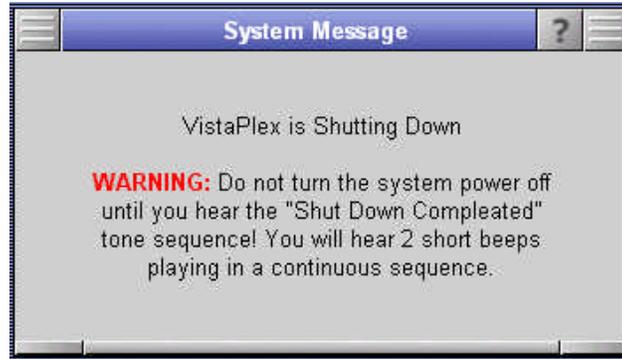
Step 1: Select the **Shutdown** option on the **Advanced Menu**. The following screen will appear.



Step 2: Click either the **Shut Down** or **Reboot** option.

Step 3: Click **OK**. The following two screens will appear.





Step 4: After hearing the beeps referred to in the System Message screen, you may push the "power" switch if you are shutting down the system.

WARNING: IF YOU HEAR 1 SHORT BEEP, FOLLOWED BY A LONG BEEP AND ANOTHER SHORT BEEP, THIS IS AN ADVISORY THAT THE SYSTEM WAS SHUT DOWN IMPROPERLY AND IS NOW REFORMATTING ITSELF FOR PROPER OPERATIONS. YOU WILL THEN NEED TO VERIFY THAT ALL OF YOUR CONFIGURAITON SETTINGS ARE CORRECT AND, IF NOT, RECONFIGURE THEM AS NEEDED.

CHAPTER 6 - VIDEO MONITORING AND PLAYBACK

Video monitoring and playback functions are accessible by both the administrator and users. Before commencing, a user must first obtain the IP address, then his assigned user name and password from the system administrator.

6.1 LOGGING IN



Step 1: Open your Internet browser (Internet Explorer version 5.0 or higher is recommended).

Step 2: Type your IP Address in the URL box located at the top of the browser as shown above.

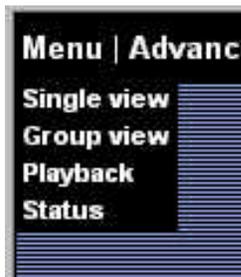
Step 3: Click **Go**. The following screen will open.



Step 4: Input your **User Name** and **Password** in the appropriate boxes in the **Enter Network Password** screen.

Step 5: Click **OK**.

If your login information is accepted, the **System Status** screen will appear, followed by the system **Menu**.

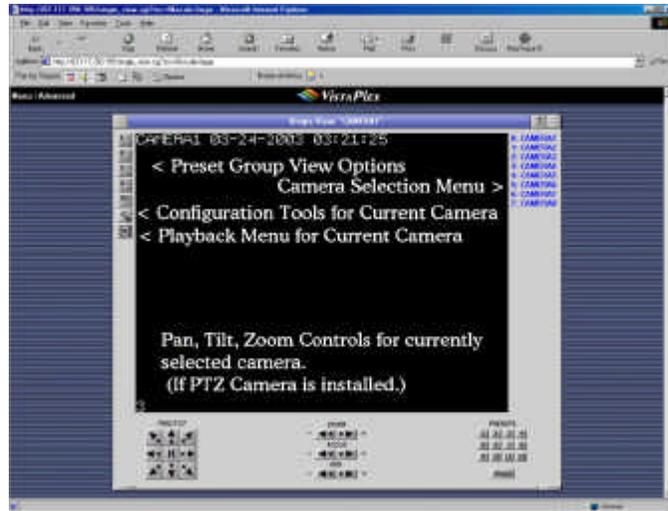


6.2 SINGLE VIEW



Selection of the **Single View** menu option allows the user to view live video action on one camera at a time. A list of each camera on the system is shown in the upper right side of the screen. However, the system will by default display the view from the first camera. By clicking on the name of the camera that you wish to view, the live video from the selected camera becomes visible.

The information shown on the upper left side of the video frame contains the name of the camera, the date (month-date-year), and the time (hour:minute:second) of the frame.



Zoom features are located on the lower center portion of the screen and allow the user to remotely control the zoom feature of a camera if it has that ability.

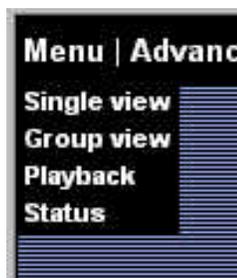
Focus features are located on the lower center portion of the screen and allow the user to remotely focus a camera if it has that ability.

Iris features are located on the lower center portion of the screen and allow the user to remotely open and close the iris of a camera if it has that ability.

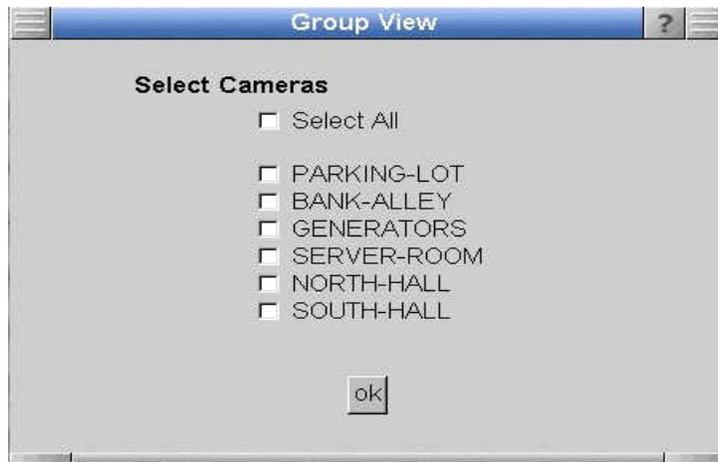
Presets features are located on the lower right side of the screen and allow the user to enter preset coordinates for use with most Pan, Tilt, Zoom cameras.

Menu feature is located on the bottom right side of the screen and allows the user to remotely access the configuration menu of most Pan, Tilt, Zoom cameras.

6.3 GROUP VIEW



Selecting **Group View** from the **Menu** opens the following screen and allows the user to view live video frames from multiple cameras simultaneously.



To Select Cameras to include in your Group View:

Step 1: Click on the check box located to the left of the camera name. Repeat this action for each camera to be viewed simultaneously.

Step 2: Click **OK**.

The following screen will open to display live video frames from each camera selected.

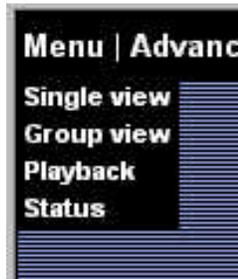


To focus your attention on a particular camera image, simply **Click** on that image window and the screen will automatically change to a **single view** of that image.

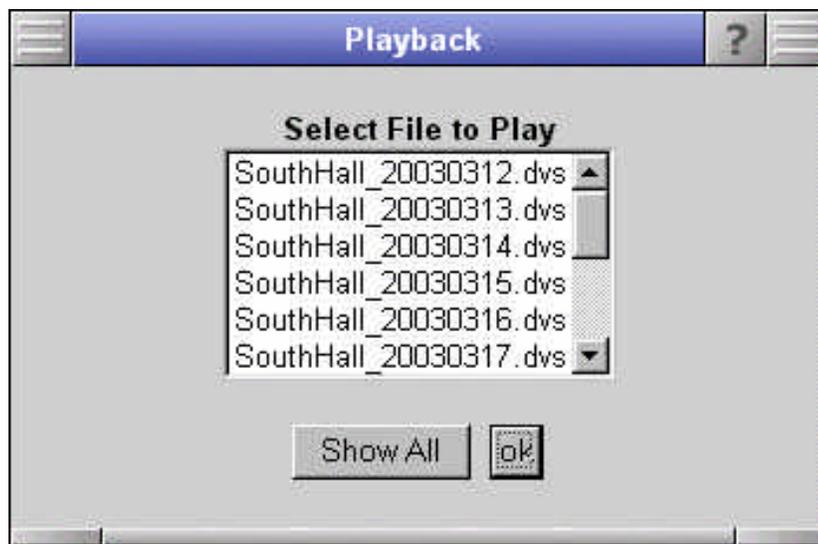
Click once more on the image to see an **enlarged view** of the same image.

To return to the **Group View**, click the **Back** button on your browser's toolbar two (2) times.

6.4 PLAYBACK



The **Playback** menu option is a very powerful and convenient tool that allows the user to easily browse recorded video files. Selection of this option opens the following screen.



When initially opened, if video was previously viewed in the Single View option, the Playback list may contain only files for a particular camera. If playback for a different camera is desired, simply press the **Show All** button to include all recorded video files in the list.

Step 1: **Click** on the file you wish to view.

Step 2: Click **OK**.

The following screen will open.



Listed below is a description of each available option on the **Playback** screen.

Filename: displays the name of the file currently opened for playback. Clicking on the actual filename will also allow you to download the entire file.

Open File: clicking on this button will allow you to select a different file for playback.

Event List: contains a list of recorded events (indexed by hour) and the number of video frames captured during that hour. There are 24 event entries contained in the list (one for each hour of the day). If "0" is indicated as the number of video frames captured, that means no motion occurred during the designated hour. To view the frames captured during a specific hour, **double click** on the specific even shown in the list.

Start Time/End Time: allows the user to manually enter specific time periods for events which you wish to playback. The time is entered in military time (i.e., 00:00:01 equals 12:00:01 A.M. and 23:59:59 equals 11:59:59 P.M.).

Download Clip: clicking on this feature will allow the user to download the segment of the file that was recorded during the times designated in the **Start Time / End Time**.

Loop: if this option is selected, when the video has reached the end of an event, the system will automatically rewind (loop) the file to the beginning of the event and resume playback.

Play: commences playback of the recorded images.

Stop: ceases playback of the recorded images.

Pause: stops playback of the recorded images for a brief period. Playback is reactivated by clicking on the **Pause** button a second time.

Playback Rate: indicates the speed at which the playback will be conducted. Adjust the Playback Rate by sliding the “speed indicator bar”. The default speed is 100%. Moving the bar to the left decreases the playback speed. Moving the bar to the right increases the playback speed.

Fast Forward: allows for fast forwarding thru captured video and also allows you to optimize the playback for your network/internet connection. When a critical event is detected, press the **Pause** button and note the time in the frame. To view the image in more detail, enter the **Start Time** then reset **Fast Forward** to 1x.

WARNING!!! WE DO NOT RECOMMEND SETTING THIS OPTION TO ANYTHING OTHER THAN 1X WHEN REVIEWING FILES THAT CONTAINS IMPORTANT EVIDENCE AS THE SYSTEM WILL SKIP VIDEO FRAMES IN ORDER TO COMPENSATE FOR SLOW INTERNET CONNECTIONS.

TIP: FOR DETAILED REVIEW OF IMAGES, DOWNLOAD THE CLIP AND REVIEW IT VIA THE VISTAPLEX™ STAND-ALONE PLAYER.

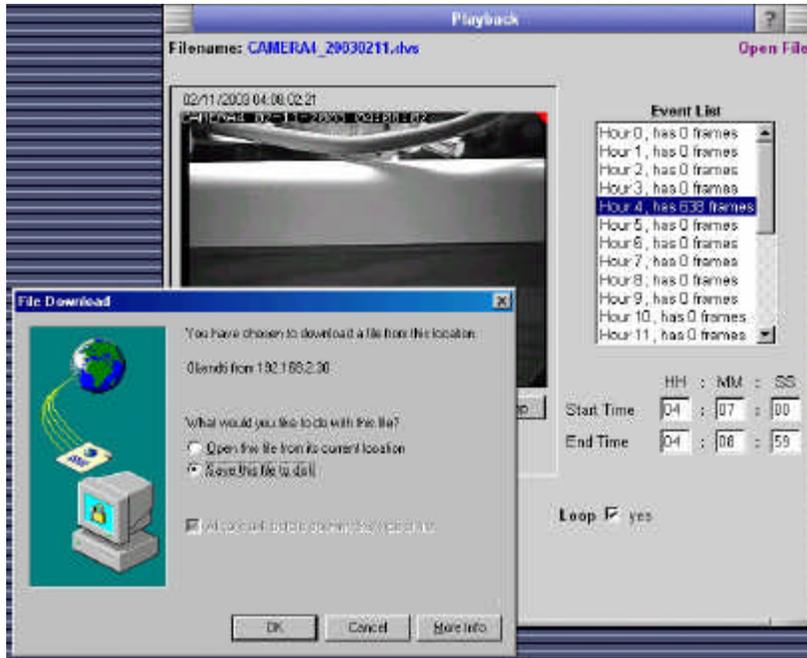
6.4.1 Download Clip

If it is determined that there is a need to download a portion of the video for further review or later use, do the following:

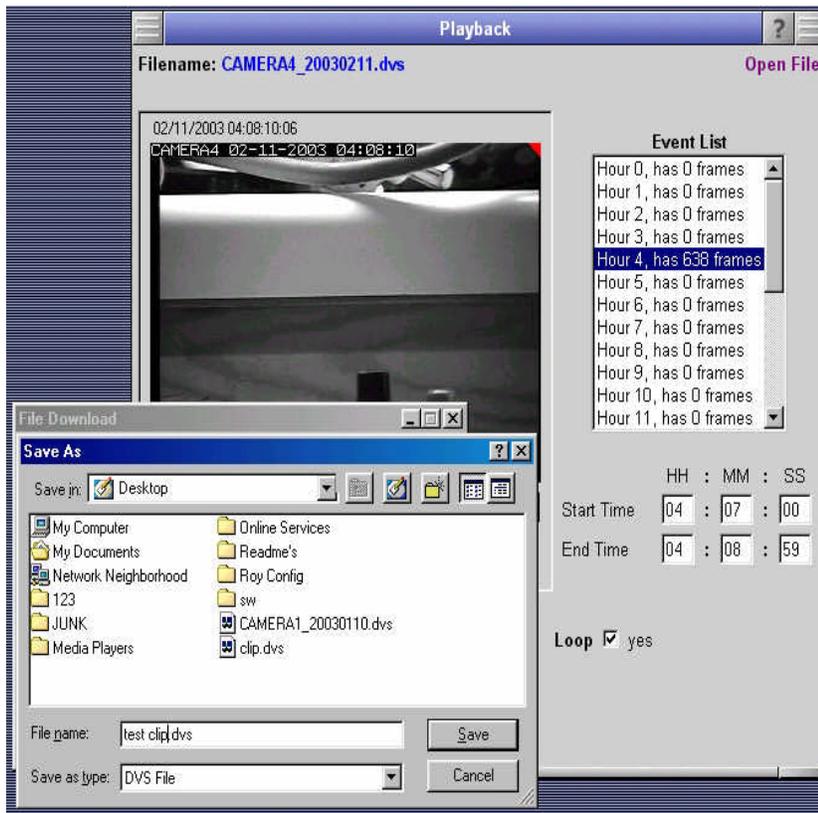


Step 1: Make sure that the **Start Time** and **End Time** on the **Playback** screen includes the time of the event you wish to download.

Step 2: Click on the **Download Clip** option. The **File Download** screen will open.



Step 3: Click the **Save this file to disk** option.



Step 4: When the **Save As** screen opens, select a directory in which to store the file.

Step 5: Enter a **Filename** for the downloaded file.

Step 6: Click the **Save** button.

The following screen will be open during the download process.



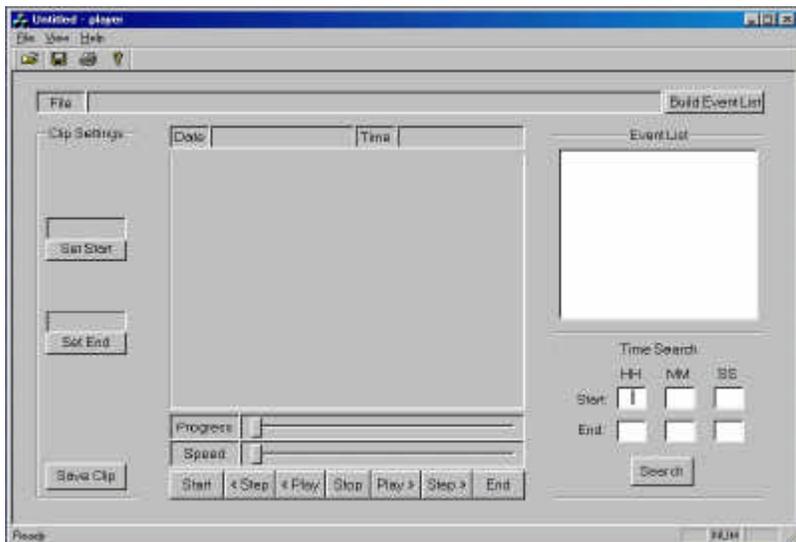
After the download is completed, the file will be located on the local machine hard drive and can be viewed whenever desired.

6.4.2 Player Program

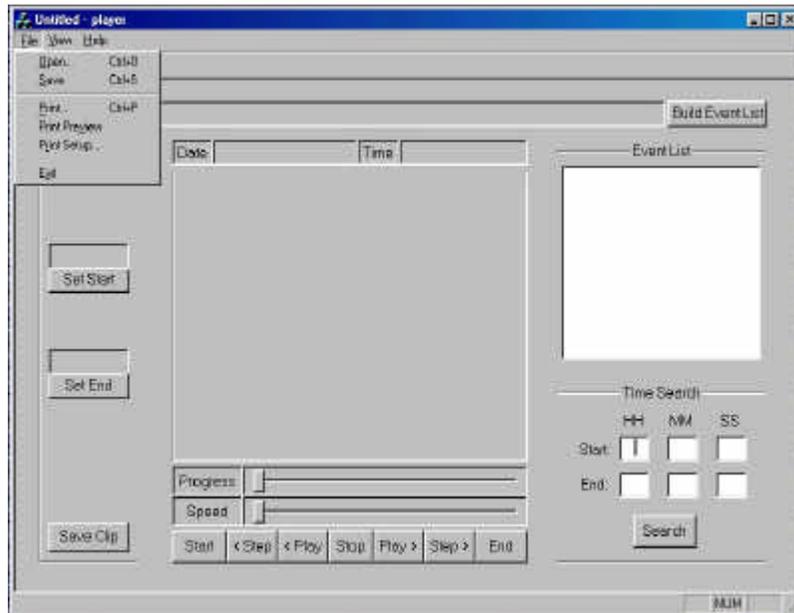
The only program that has the ability to view or play downloaded clips is the application file entitled "Player.exe" which is included on your **VISTA PLEX™ DVRS** Utility Disk. The Player.exe file should be copied to a directory on the local machine and will run in the same manner as any Windows program.

TIP: FOR EASY ACCESS, A SHORTCUT ICON FOR THE PLAYER.EXE APPLICATION SHOULD BE PLACED ON YOUR DESKTOP.

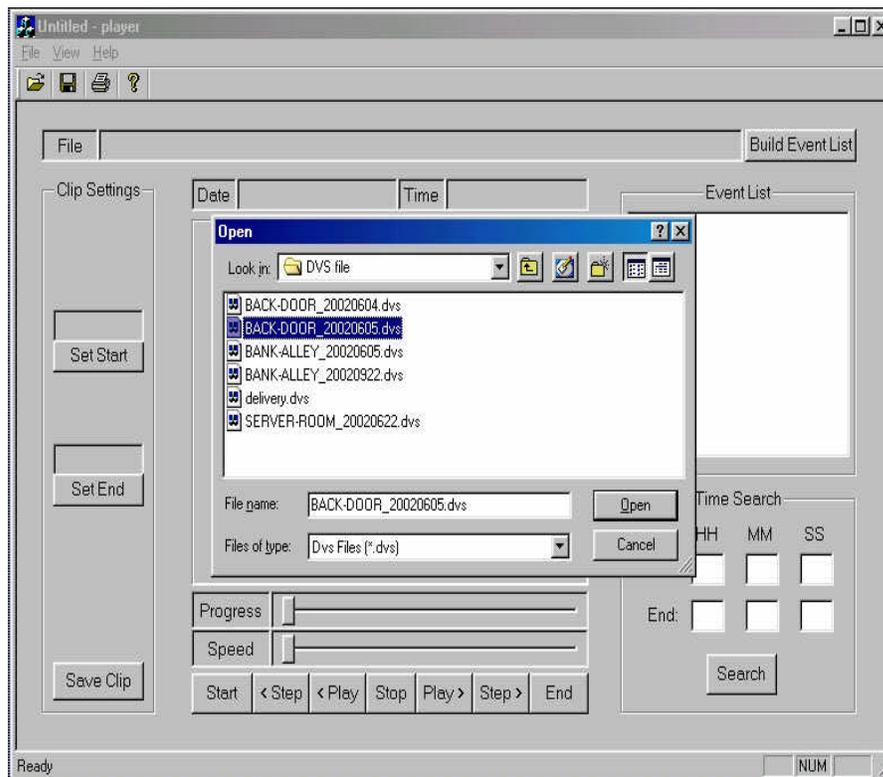
Step 1: Open (Run) the Player.exe application and the following screen will open.



Step 2: Select **File**, and then select **Open** from the Menu.

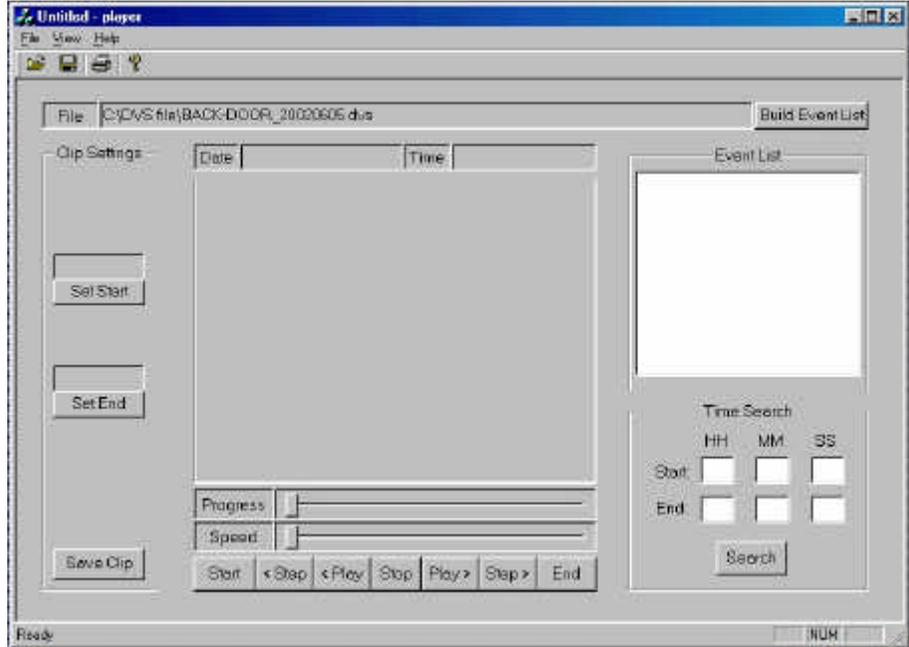


Step 3: When the following dialog box appears, select the directory and filename for the downloaded file.



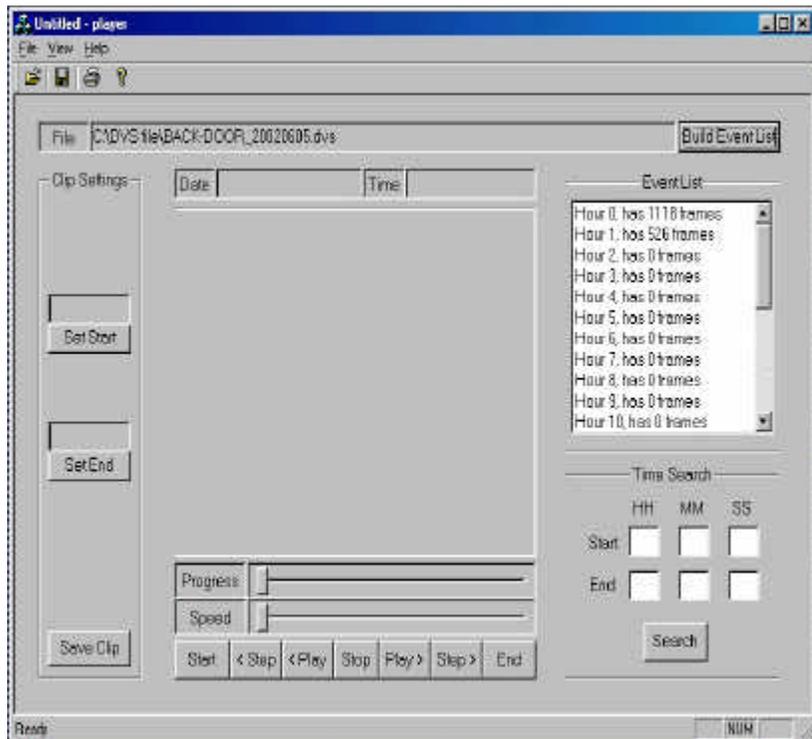
Step 4: Click **Open**.

The filename you selected will now be in the filename area of the player screen.



Step 5: Click the **Build Event List** button to the right of the filename.

The message “Building Event List” will appear in the **Event List** window. When the process is complete, a chronological list of available video will appear in the window. If there is no available video for a time segment, “0 frames” will appear next to that hour. A number (other than “0”) appearing prior to “frames” indicates the number of images (frames) that are included in the video event.



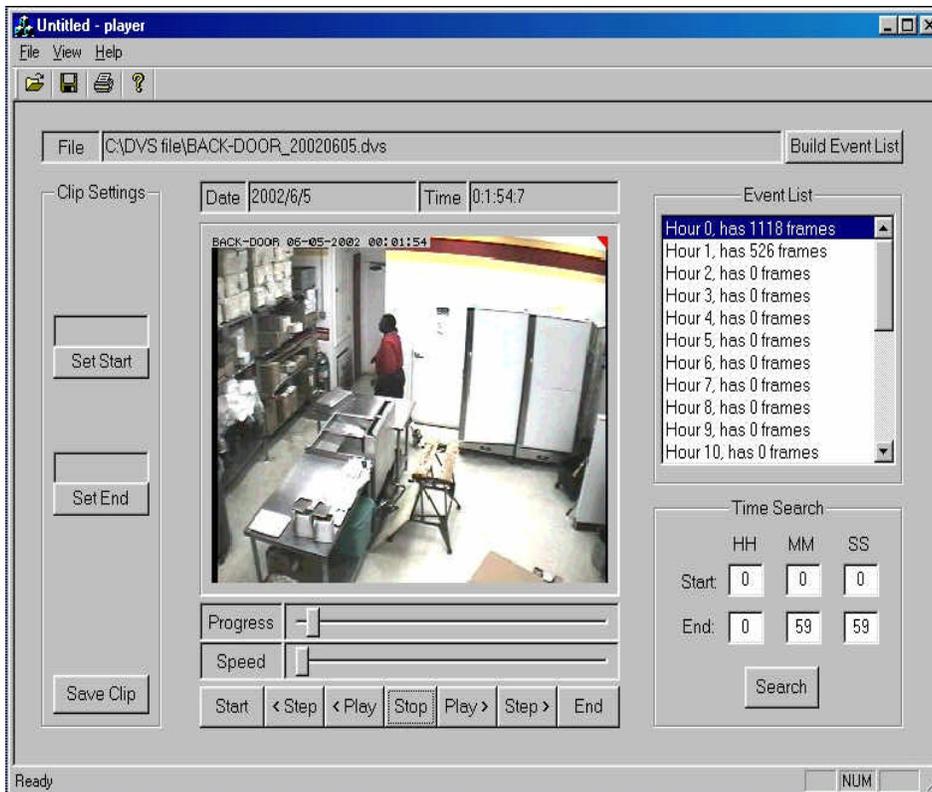
Step 6: To view the video, **double click** on the Hour shown in the **Event List**. The **Start** and **End** times will be automatically displayed in the **Time Search** fields. The **Time Search Start** and **End** times can also be entered manually if desired.

Step 7: Once the desired times are shown in the **Time Search** fields, click the **Search** button.

When the frames are found for the designated times, the following dialog Message screen will appear.



Step 8: Click **OK**. The file can now be played for review.



The following control buttons will assist in ease of viewing the video:

Start: will return to the beginning of the video clip.

<Step: will reverse 1 frame backward.

<Play: will play the video in reverse.

Stop: will halt the playing of the video.

Play>: will play the video forward.

Step>: will advance the video 1 frame.

Progress: a slider that indicates the viewed frame relative to the start and end of the clip. Click and hold the slider to move through the clip.

Speed: a slider that controls the speed of the playback.

6.4.3 Save Event Clip

Step 1: When the player window displays the first image of the desired clip event sequence, click the **Set Start** button located on the left side of the video clip.

Step 2: Play the clip event until the last desired image is displayed in the player window and then click the **Set End** button.

Step 3: Click the **Save Clip** button. The Save dialog screen will appear.

Step 4: Enter the directory, desired filename, and then save the clip.

TIP: IF THE CLIP IS TO BE PROVIDED TO A THIRD-PARTY FOR REVIEW, YOU MUST ALSO PROVIDE A COPY OF THE PLAYER.EXE FILE TO THE THIRD-PARTY AS THE PLAYER.EXE FILE IS THE ONLY VIEWER THAT WILL OPEN THE FILE.