NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at one’s own expense.

CAUTION: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER’S AUTHORITY TO OPERATE THE EQUIPMENT.
Important Safety Instructions

1) Read & Retain Instructions
All the safety and operating instructions should be read before the appliance is operated. The safety and operating instructions should be retained for future reference.

2) Heed Warnings
All warnings on the product and in the operating instructions should be adhered to.

3) Follow Instructions
All operating and use instructions should be followed.

4) Cleaning
Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning the unit.

Exception: A product that is meant for uninterrupted service and that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the product in the cleaning description otherwise required in 5).

5) Attachments
Do not use attachments not recommended by the product manufacturer as they may cause hazards.

6) Water and Moisture
Do not use this product near water, for example near a bath tub, wash bowl, kitchen sink, or laundry tube in a wet basement or near a swimming pool and the like.

7) Accessories
Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8) Handling
A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

9) Ventilation
Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating and these openings must not be blocked or covered. Placing the product on a bed, sofa, rug or other similar surface, should never block the openings. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10) Overloading
Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

11) Object and Liquid Entry
Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the receiver.

12) Servicing
Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

13) Heat
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
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CHAPTER #1 – READ ME FIRST

This chapter is designed to help get you better acquainted with the VISTAPRO system before proceeding with installation.

1.1 Introduction

The 4 Port PCI card and software provided with VISTAPRO allows you to set up a PC based Quad security system that can:

- **Stream Live Video** – Watch what is going on in up to 4 locations, whether you are in the room next door or around the world via the internet or dial up option
- **Detect Motion** – When the alarm feature is activated, motion detection will trigger the system to begin recording automatically to your computer’s hard drive
- **Search Video Archives** – Quickly find and review specific footage from a history of recordings. Search by date and time of the day to retrieve video files from either the PC that you are using, or conduct the search remotely through the host PC’s recordings
- **Pan and Tilt plus Zoom Option** – Using an accessory Pan - Tilt / Zoom Dome camera (not included with most systems), control the mechanical movement of the camera locally or over the internet
- **Define Motion Detection** – Select the precise area in which motion detection will be active, and adjust the level of the function’s sensitivity
- **Schedule Events** – Schedule video recordings to automatically occur at specific times during the week.

1.2 Symbols Used in This Manual

Throughout this manual a set of comments are employed to provide emphasis to certain points. A left-hand icon indicates the type of comment as follows:

![Smiley face] This type of comment represents a feature or aspect of VISTAPRO that is particularly beneficial to the user. Text in this note is italicized and bold.

![Info icon] This type of comment represents information that you will find useful, such as a shortcut or a “how-to” to avoid common mistakes. Text in this note is bold.

![Warning icon] THIS TYPE OF COMMENT REPRESENTS SOMETHING TO BE AWARE OF OR BE CAUTIOUS ABOUT. TEXT IS BOLD AND UPPERCASE.
1.3 System Contents & Accessories Available

1.3.1 Core Components – Minimum Configurations

CONTENTS VARY DEPENDING ON THE MODEL PURCHASED.

All systems include the following:

PCI 4 Port Board, 4 Port Monitoring Software, Power supply cable, Owner’s Manual

1.3.2 Color Camera

Color cameras are included with some systems (depending on the model purchased).

For a complete list of available accessories, refer to Appendix #1.

1.4 Minimum System Requirements

<table>
<thead>
<tr>
<th>Component</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Pentium III 733MHz or higher</td>
</tr>
<tr>
<td>RAM</td>
<td>More than 128 MB Ram</td>
</tr>
<tr>
<td>Video Card</td>
<td>VGA Compatible Video Card - 16 MB or higher</td>
</tr>
<tr>
<td>Display</td>
<td>800 x 600 VGA Color display or better</td>
</tr>
<tr>
<td>Disk Space</td>
<td>40 MB available hard disk space</td>
</tr>
<tr>
<td>Modem</td>
<td>28 bps or higher modem (broadband connection recommended)</td>
</tr>
<tr>
<td>CD-ROM Drive</td>
<td>Required for software installation</td>
</tr>
<tr>
<td>PCI Card Slot</td>
<td>1 vacant slot required, 2 if purchasing the Alarm Board</td>
</tr>
<tr>
<td>Recommended VGA cards</td>
<td>RIVA TNT 2, GeForce2 MX 100/200, GeForce2 MX 400, ATI XPERT 2000 Pro, Voodoo3, ATI RADEON 7200</td>
</tr>
</tbody>
</table>
1.5 **Support**

The following 2 options are available for technical support:

<table>
<thead>
<tr>
<th>Type</th>
<th>Contact</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-line Support</td>
<td>Please visit our website at <a href="http://www.strategicvista.com">www.strategicvista.com</a> for free technical information anytime and weekly updates to the most frequently asked questions</td>
<td>24 Hours / 7 days a week</td>
</tr>
<tr>
<td>Email Support</td>
<td>Please email your queries to us at <a href="mailto:support@strategicvista.com">support@strategicvista.com</a></td>
<td>Allow 24 Hours (Mon-Fri) for a technical support person to respond to your query</td>
</tr>
</tbody>
</table>
CHAPTER #2 – INSTALLATING VISTAPRO 4

This chapter describes how to install VISTAPRO 4 on your PC. It assumes that you have currently installed the PCI 4 Port Video Capture Card (refer to Appendix #2 for installing the PCI card).

Screen shots in this manual have been taken on a system running Windows 2000. There may be small differences to the external appearance of the application windows and dialogs running on Windows XP, 98 and ME. The layout of the windows and dialogs and their content are identical for all Windows systems supported.

2.1 Installation of Driver

1. The first time that you turn ON your PC after the installation of the PCI card, your system will detect the new hardware during startup. The following screen will appear automatically:

![Image of installation wizard]

Click Next to continue.

2. You will then be prompted with the following dialog for installing Hardware Device Drivers:

![Image of hardware device drivers dialog]

Select the default option, "Search for a suitable driver for my device", by clicking Next to continue.

3. Your system will prompt you to specify the location of the Driver Files:
At this point, insert the VISTAPRO software CD into your PC’s CD-ROM drive and wait for 10 seconds as your system recognizes the disk.

Select the CD-ROM drives option and click Next.

4. The correct driver is found in the screen below.

Click Next to continue.

5. A message will appear stating that the software does not contain a Microsoft Digital Signature.

Simply click Next to proceed with the installation.
6. Windows will show the following message once it has completed installing the driver for VISTAPRO.

![Hardware Wizard Screenshot]

Depending on what the Setup application needed to install, you may be prompted to restart Windows in order to complete the installation.

**WARNING:** Since drivers are installed it is recommended to restart your system even if the installation does not require it.

### 2.2 Installation of the VISTAPRO Software

1. Ensure that the VISTAPRO software CD is still in your CD-ROM drive. In Windows, go to your Compact Disc drive in which the software is situated. You will notice that there are two folders: one for the Driver, and the other for "VISTAPRO-DVR" software files.

   ![Folder Icons]
   
   Driver  VISTAPRO-DVR

2. Open the "VISTAPRO-DVR" folder. The following files will be displayed:

   ![Folder Contents]

3. Double-click on the setup application icon.
4. The Install Wizard will appear.

Click Next to continue.

5. The “Customer Information” dialog appears. Enter your Name, Company, and the product’s Serial Number. Be sure to include the dashes “-” between the groupings of four digits, and do not enter any blank spaces. Click Next to continue after all the information is entered.

6. The “Select Component” dialog appears. You will be presented with a list of four different installation options. The options represent different combinations of 3 separate programs that are included with the VISTAPRO 4 software.

   **Server** – this component detects the PCI Card installed in the PC and displays live video
   **Client** – this component allows you to connect to a remote location
   **Search** – this component allows you search and find data / video

It is recommended that you install all 3 components if your PC has the 4 Port PCI Card installed. However, if you are installing the software on a remote PC without the card, then the Server component is not necessary.
Choose one of the four options and click Next.

If you find later on that you’ve installed a program that you don’t need, you can always delete a program.

7. The “Choose Destination Location” dialog appears. Select a folder where Setup will install the files, then click Next.

8. Then choose a name for the Program Folder and click Next.
9. Files will then be copied to your PC. When finished, the following dialog will appear:

![InstallShield Wizard](image)

Click Next to complete the installation.

For Users of Windows 98 / Windows ME:

You will be prompted to install DirectX 8.1 on your computer.

![ DirectX 8.1 Question dialog](image)

Click Yes to install the DirectX 8.1 media software, which is available from the software CD.

10. Depending on whether you chose to install all 3 components of the VISTAPRO software, you will notice 3 new icons on your Desktop:

   ![Icons](image)

   Server icon, Client icon, Search icon.

   Congratulations! Your 4 Port Digital Security System is now set up.

2.3 To Uninstall

To uninstall VISTAPRO 4, go to the Add/Remove Programs option in the Control Panel of Windows. First click on the VISTAPRO program in order to select it from the list of programs on your PC, and then click on the Change/Remove button.

You will be prompted with a dialog to Modify, Repair, or Remove the program. Select Remove and then click Next. The VISTAPRO 4 software will uninstalled.
CHAPTER #3 – MAIN APPLICATION

This chapter will introduce you to the main features of the VISTAPRO application, using the Server component of the software. It will provide you with an understanding of how to navigate through the VISTAPRO software to set up your security system. This chapter concentrates on the operation of the system in "local mode", on the computer in which you have installed the 4 Port PCI Card.

As a reminder, there are three programs that are included with VISTAPRO 4:

Server - used for displaying live video in Local mode (ie: you’re not viewing the cameras via the internet)

Client - used for displaying live video via the internet from a remote site

Search - used to search and find data and video

3.1 Launching the Application

The VISTAPRO Server automatically launches itself when you boot-up your computer. If you have exited the program, you can reenter by double-clicking on the VISTAPRO Server icon.

3.2 The Main Application Window

* The Pan / Tilt feature is only available if you are using the optional DCP1000 Pan / Tilt Dome camera with your system. The Focus and Zoom features require a compatible camera with Pan Tilt Zoom capability.

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) VistaPro Server Version Information</td>
<td>Double clicking on this button informs you what version of the VISTAPRO software you’re using</td>
</tr>
<tr>
<td>2) Minimize Button</td>
<td>Minimizes the VISTAPRO Server window</td>
</tr>
<tr>
<td>3) Date and Time Indicator</td>
<td>Shows the present date and time</td>
</tr>
<tr>
<td>4) Used / Free Storage Indicator</td>
<td></td>
</tr>
<tr>
<td>5) Setup Button</td>
<td></td>
</tr>
<tr>
<td>6) Search Button</td>
<td></td>
</tr>
<tr>
<td>7) Quad button</td>
<td></td>
</tr>
<tr>
<td>8) Sequencing Button</td>
<td></td>
</tr>
<tr>
<td>9) Channel Select Buttons</td>
<td></td>
</tr>
<tr>
<td>10) Channel Recording Buttons</td>
<td></td>
</tr>
<tr>
<td>11) Camera Select Button (for Pan Tilt / Zoom Camera)*</td>
<td></td>
</tr>
<tr>
<td>12) Pan/Tilt/Zoom/Focus Control Buttons*</td>
<td></td>
</tr>
<tr>
<td>13) Network Connection Status</td>
<td></td>
</tr>
<tr>
<td>14) Logout Button</td>
<td></td>
</tr>
</tbody>
</table>
4) **Shows the amount of available file space for saving video files on your hard-drive**

5) Clicking on this button will bring up a Setup dialog box which offers numerous options for configuring your system. Please refer to Chapter 6 for more details on these options.

6) Clicking on this button will bring up the Search program, which allows you to find specific video and data records. Please refer to Chapter 6 for more details on the Search feature.

7) Clicking this button displays a Quad screen.

8) Used to sequence between all camera locations in Full Screen in sequential order, with the screen changing every 2 seconds (default setting).

9) These 4 buttons allow you to go to Full Screen display of cameras 1-4 respectively.

10) These 4 buttons allow you to record video to your hard-drive by individual camera locations. The button turns Red while recording is in process. Click the button again to stop recording.

11) Selects which camera is being controlled for the Pan / Tilt / Zoom / Focus functions.

12) These controls enable you to adjust the Pan / Tilt / Zoom / Focus functions of the selected camera, provided that you are using a compatible dome camera with these features.

13) The Network Connection Status button changes to Red when another user is connected to the system from another computer. Clicking on this icon brings a Connection Status dialog box that allows you to view the number of connections being made and disconnect them if desired. Please refer to Section 3.6 for more information on the Network Connection Status options.

14) Clicking on the Logout button will exit the system and close the program. You will be prompted for a password upon clicking this button. Please refer to the next section for Password related information.

### 3.3 Security Password Protection

You will find that you are prompted for a password when attempting to perform functions such as Logging Out of the system, and disconnecting clients from the Network Connection. There are 2 different passwords: the Setup Password and the Network Password.

The Setup Password is: 1111
The Network Password is: 1111
The default Password is 1111 for both the Network Password and System Password if you have not yet programmed or changed them.

You can change your Password and password settings in the Setup options. Please refer to Section 5.3 for more details.

3.4 Navigation without Buttons

You may find it easier to navigate between cameras and viewing modes by double-clicking on the live video screens rather than on the Channel 1-4 / Quad buttons. When viewing in Quad mode, simply double clicking on one of the 4 pictures will bring that channel into Full Screen display. Double-clicking on a Full Screen picture will return to Quad mode.

3.5 Maximizing the Screen

You can magnify the VISTAPRO Server window to occupy the full screen of your monitor by right clicking on the screen, and selecting “Full Screen” from the drop-down menu. To return to the regular-sized screen, right-click on the picture again. Note that you may be prompted to enter your Setup password when exiting the maximized screen, depending on your settings in Setup.

WHEN THE SCREEN IS MAXIMIZED, CERTAIN KEYS ON YOUR KEYBOARD BECOME DISABLED. IN ORDER TO ESCAPE THE MAXIMIZED SCREEN WHEN ASKED FOR A PASSWORD, TYPE IN THE PASSWORD USING THE NUMBER KEYS LOCATED ABOVE THE LETTERS, NOT THE NUMBER KEYS ON THE NUMERIC PAD.

3.6 Network Connections Status

Clicking on the Network Connections Status button will bring up a dialog similar to the one shown below:

This screen shows the number of connections that are being made to the host PC. You can terminate any of the active connections by clicking the DISCONNECT button. Note that you will be prompted for the Setup password for verification before disconnecting a client.
CHAPTER #4 – SETUP OPTIONS

This chapter will illustrate the configuration options offered by the VISTAPRO Server’s Setup dialog. These options include changing passwords, scheduling recordings, programming motion detection, and much more.

4.1 Entering the Setup Menu

Click on the button in the Main Application Window to enter the Setup Mode. You will be asked to enter your Setup password before proceeding to Setup mode. A reminder: the default password is “1111”.

Note that in Setup mode, you have the option of disabling the password checks.

4.2 Overview of Setup Menu

The following table describes your options in each of the tabs shown above:

<table>
<thead>
<tr>
<th>Configuration Tab</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>Allows you to change both your Setup and Network passwords, in addition to enabling / disabling password checks. You can also adjust the number of seconds of switch time in Sequencing mode, specify your network information, and set the frame rate for recording video. Finally, the auto-reboot feature can be activated, provided that you have connected accessory Reboot Cables.</td>
</tr>
<tr>
<td>Video</td>
<td>Adjusts the picture’s Quality, Brightness and Contrast levels. You can also switch between NTSC and PAL video formats. Note that this system is defaulted to NTSC format.</td>
</tr>
<tr>
<td>Camera</td>
<td>Specifies whether your cameras are Auto Pan Tilt cameras, and selects which cameras you wish to activate. Disk storage related settings can also be configured in this menu, such as whether to Overwrite old recordings in the event of a full hard-disk drive.</td>
</tr>
<tr>
<td>Schedule Rec</td>
<td>Selects specific times in which you want the system to automatically record or activate motion detection. You can schedule recording and motion detection by individual cameras, by hour of the day.</td>
</tr>
</tbody>
</table>
Motion | Selects the motion detection Area by channel, and set the motion detection Sensitivity. Also programs Alarm features: Alarm Recording Time and Alarm Sound.

Sensor | Configures external Motion Sensors that can be optionally added to your system, provided that you have connected the accessory Alarm Board

SMS | Programs sending Short Messages to mobile phones or handheld devices upon the triggering of motion detection alarms. This feature is not yet available.

Log | Shows a history of events, such as when the software was turned ON / OFF, and when connections are made / terminated.

### 4.3 General Options

1. **Setup Password**
   - You can change your Setup password from the default Password “1111” in this field by typing in another 4 to 12 digit code. You are also asked to confirm the Setup Password in the next field.

2. **Network Password**
   - You can change your Network password from the default Password “1111” in this field by typing in another 4 to 12 digit code. You are also asked to confirm the Network Password in the next field.

3. **Switch Time**
   - You can alter the number of seconds that cameras are displayed before scanning to the next camera in Sequencing mode.

4. **Always check Setup Password**
   - Removing this check from the checkbox will disable the prompting for the Setup Password in various circumstances.

5. **Enable auto-reboot**
   - Checking this checkbox enables the computer to reboot when an error is encountered that causes the software to stop. You need to connect the accessory Reboot Cables in order to make this feature work.

6. **Product Number**
   - Displays the software’s Serial Number
(vii) **Server IP**
Displays your computer’s IP address.

(viii) **Network Information**
Select the type of connection that you would be making to a remote client. The three options for connection are:
- No Internet Connection – select if you have no internet connection available
- LAN – this is the default type of connection. It consists of a local area network, or high-speed internet access.
- Dial-up – represents connection over the telephone line

The Port Number of the VISTAPRO software is fixed to 2000. In case of a firewall being installed, this Port must be opened in order to permit client connection via external network.

BECAUSE THE MAXIMUM TRANSMISSION BANDWIDTH OF A DIAL-UP CONNECTION IS NO MORE THAN 56 Kbps, ONLY 1 TO 3 FRAMES PER SECOND OF VIDEO CAN BE DELIVERED TO THE CLIENT.

(ix) **Frames / Second**
You can set the number of Frames per Second in which the system will record video. Select from the following rates: 4, 8, 12, 16, 20, 24, 28, 30 fps.

30 Frames per Second is equal to Real Time recording. Recording in a lower frame rate will generate Time Lapse recording.

The benefit of recording in Time Lapse mode rather than Real-Time is that you will be able to record for an extended period of time before you eventually run out of disk space.

4.4 **Video Options**
(i) View Selection

Select which camera you are viewing in the window on the left side. You can adjust the Brightness and Contrast levels by individual camera locations and see the results of the adjustments as they are made.

(ii) Record and Transport

Adjust the Quality level of video recording. The three major levels of Quality are: Low, Medium, and High.

Note that higher quality recording consumes more disk space.

(iii) Video Format

Select whether your system is in NTSC or PAL video format. NTSC is the standard system in North America, while PAL is used in Europe and many Asian countries.

(iv) Brightness

Adjust the brightness level of the selected channel.

(v) Contrast

Adjust the contrast level of the selected channel.

(vi) Default

Clicking this button reapplies the factory default settings for all Video options.

4.5 Camera Options

(i) Camera Use

Select which cameras you want to be activated to display a picture. Checked cameras are activated.

(ii) Camera Name

You can rename each camera title to a name that can be up to 16 characters.
If you purchased an accessory Pan Tilt camera, or a Pan Tilt Zoom camera, you can pick which model of the P/T/Z camera you purchased from the drop-down list of VISTAPRO-compatible P/T/Z cameras, and specify which channels (1-4) have the P/T/Z cameras connected.

Select the port on your PC that you connected the P/T/Z camera to.

You can change the folder to which video is recorded on your hard-drive. The default folder is C:\Program Files\VISTAPRO-DVR\Mpeg

There are two options for allocation of HDD Space:
Available – system records until the disk space runs out
User-define – system records until the amount of space allocated by the user for recording video runs out

When you select the User-define option, an alert similar to the one below appears:

![Alert](image)

The User-define option will expand to include a text box in which you must enter a valid number of MB that you are willing to allocate to recording video on your PC’s hard drive.

The Maximum figure in the User-defined allocation is actually the amount of available MB on your hard-disk drive. 1000 MB (1 GB) is the Minimum amount of space to allocate because it is inadequate amount of space to accommodate any significant recording. The system will alert you with a Caution message when your available HDD space drops to 1000 MB.

In the event that your hard-disk drive becomes Full, you can choose one of two possibilities:
Overwrite – allows the system to record over the oldest recorded data with new recordings, while automatically deleting the oldest video files.
Stop recording – the system will cease to record any further once the hard-disk drive is Full.

If you selected Overwrite, you will see the following message when the hard-drive’s remaining available disk space drops to 1 GB.

![Message](image)

If you selected Stop recording, you will see this message when the hard-drive’s remaining available disk space drops to 1 GB.
Finally, if your hard-disk drive becomes Full and you had selected the Stop recording option, you would see the alert below:

(vii) **Backup**

To avoid overwriting or deletion, you can create Backup copies of recorded video files from specific time periods.

Click the Backup Set button to bring up the following dialog:

Duration – select the start and end duration dates that contains the recording that you wish to backup
Directory – you can change the folder to which backup video is recorded on your hard-drive. The default folder is C:\Program Files\VISTAPRO-DVR\Mpeg\Backup
Date – select the precise time that you want the backup file copying to occur
Delete – you can delete scheduled backup file copying by highlighting the number of the backup in the list and then clicking the Delete button.
All Delete – deletes all scheduled backups from the list.

Note: to change the day / month / time / year, first highlight the element of the date that you wish to change, and then press the Up and Down arrow keys.
4.6 Schedule Recording Options

(i) **Camera 1 – 4**  
Select the camera for which you are scheduling recording / motion detection

(ii) **0 – 23**  
Represent the hours of the day on a 24 hr clock

(iii) **Sun – Sat**  
Represent the days of the week.

**Definitions**

- **Motion** – when Motion Detection is activated, alarms can be triggered. The pixel-based motion detection function becomes activated upon scheduled timing and enables Alarm Recording when motion is detected. For example, a store owner may want to have Motion Detection scheduled at night time when the store is closed since no activity should be taking place. If motion is detected at night time, VISTAPRO will record the event taking place. For more information on the motion detection feature, see Section 4.7.

- **Continuous** – when Continuous Recording is scheduled, recording automatically occurs for the duration of the specified time segment. For example, a store owner may want to consistently record on weekdays from 8-9 at night as the store closes in order to watch as employees deposit the cash.
v) All Camera

Applies the same Motion / Continuous settings programmed for the active camera to all four cameras.

(vi) Schedule Rec. Enable

Checking this checkbox enables the Motion / Continuous Recording to function. Removing the check from the checkbox disables the feature.

4.7 Motion Detection Options

VISTA PRO 4 includes a powerful and flexible motion detection capability that can be calibrated to suit most environments. If movement is detected within the camera screen, motion will be detected and recording will commence.

To help prevent false alarms or having the system not detect motion (when there is in fact motion), the following points should be considered:

· Lighting – Although humans see light as a constant, lighting in fact is continuously fluctuating. The camera sees these fluctuations and can trigger "motion" incorrectly.

· Speed – Depending on the circumstance, moving very quickly or very slowly can evade motion detection.

· Digital Fluctuations – Digital video has natural fluctuations in how it "sees" a point in space. At any given time, the same point may be interpreted as slight variations of the same color. If Sensitivity is calibrated at a High level, these slight variations can set off the alarm even when there is no actual motion.

VISTA PRO includes a state-of-the-art motion detection capability that enables you to set the precise combination of parameters and areas for detecting motion. When Motion Detection alarms are triggered, the letters "M REC" appear in red in the top left corner of the picture, signifying that Motion Detection Alarm Recording is in process.

IN ORDER FOR MOTION DETECTION TO TRIGGER RECORDING, YOU MUST FIRST SCHEDULE FOR MOTION RECORDING TO OCCUR AT THE DESIRED TIMING BY CAMERA LOCATION AS DESCRIBED IN THE PREVIOUS SECTION.
(i) **Channel Selection**

Select the channel for which you are setting the motion detection.

(ii) **Sensitivity**

Choose the level of sensitivity for the motion detection feature on a scale between 1~100, with 100 being the Highest sensitivity.

(iii) **Duration Recording Time**

Program the number of seconds (1~60) for which the system will automatically record upon the triggering of Motion Detection.

(iv) **Output**

During a Motion Detection Alarm, various Outputs can occur. The most basic output is Speaker Out, which causes a Buzzer to sound on your PC's speakers as motion is detected. Clicking on the Speaker Out button activates the Buzzer.

Additionally, if you purchased the accessory Alarm Board, there are two Relay outputs that can trigger other devices connected to your system. To activate these other devices, click on the Relay 1 / Relay 2 buttons.

(v) **Area Selection**

By dragging your mouse across different areas on the live viewing screen, you can designate which specific sections of the picture are subject to motion detection. The Motion Detection Area is indicated by small red boxes, which can vary by channel. The *Insert Area* button should be clicked on before creating these motion detection areas.

Clicking the button *Clear* eliminates all previous / default Motion Detection areas assigned on the channel that you're viewing. Clicking on the *All Area* button makes the full-screen of the camera as the Motion Detection Area.
The Undo button removes the last motion-detection area created by mouse-dragging.

**Test ON / OFF**

The Test feature allows you to check your motion detection settings by demonstrating simulated alarms on the viewing screen as the corresponding camera picks up motion.

Clicking Test On initializes a test of the Motion Detection settings for the camera that you are viewing. Clicking Test Off terminates the test.

*The Test feature provides you with the opportunity to test various Sensitivity levels and Area Selections.*

When motion is detected in Test mode, the letters M REC will appear in red in the top left corner of the viewing screen. However, no recording is actually taking place because the Test mode is only a simulation.

### 4.8 Sensor Options

This section is only applicable if you have purchased the Alarm Board and have connected external motion sensors.

#### (i) Sensor

You can connect up to 4 Sensors to the Alarm Board. Select which sensor you are configuring.

#### (ii) Description

Type in a descriptive word as a reference to the Sensor (limit of 20 characters).

#### (iii) Duration Rec time (sec)

Program the number of seconds (1~60) for which the system will automatically record upon the triggering of a Sensor Alarm.
(iv) **Recording Association**

Determine which cameras will record when a specific Sensor Alarm is triggered.

(v) **Output Association**

During a Sensor Alarm, various Outputs can occur. The most basic output is Speaker Out, which causes a Buzzer to sound on your PC’s speakers as motion is detected. Clicking on the Speaker Out button activates the Buzzer.

Additionally, there are two Relay outputs that can trigger other devices connected to your system. To activate these other devices upon Sensor Alarm, click on the Relay 1 / Relay 2 buttons.

(vi) **Output Duration Time**

Program the number of seconds (1~60 or Continuous) for which the system will the Relay signal will output upon the triggering of a Sensor Alarm.

(vii) **Sensor Schedule**

Similar to the Motion / Continuous Recording schedule explained in Section 5.6, click the Set button and drag the mouse over the times of the week when you want for your Sensor to be active.

---

### Sensor 1 Schedule Rec Setup

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### 4.9 Short Message Service (SMS) Options

This feature is currently not available. Please check [www.strategicvista.com](http://www.strategicvista.com) for updates as to when this feature will become available.
4.10 **Log View**

The Log View lists a history of Events from the operation of the VISTAPRO system along with the time that they occurred. Events that are recorded in the Log View include: Starting Time, Ending Time, Abnormal Exit Times, Client Connection Time, and Client Disconnection Time.
CHAPTER #5 – SEARCH OPTIONS

This chapter will illustrate the video retrieval options offered by the VISTAPRO Search program. These options include finding recordings based on criteria such as time, alarms, and by channel.

5.1 Entering the Search Mode

There are two different ways to enter into the Search screen:

1) Double click the shortcut icon on your Desktop.
2) Click on the icon from the Main Application

You will be prompted for a Search Directory upon entry into Search mode, but this only occurs on the first entry into Search after you power up your PC.

The default directory for searching is C:\Program Files\VISTAPRO-DVR\Mpeg

If you have created a different directory for recordings, then you will need to search for the most recent directory. If you’re using the Search program to connect to a remote PC, then your default directory changes to a directory containing the extension “Client_MPEG”.

5.2 Overview of the Search Application
<table>
<thead>
<tr>
<th>Button</th>
</tr>
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</table>
| **1)** VistaPro ![Search] | **Description**
| Double clicking on this button tells you what version of the VISTAPRO software you’re using |
| **2)** ![Minimize] | Minimizes the VISTAPRO Server window |
| **3)** ![Calendar] | Clicking on arrows browses by Month / Year of the Calendar. Clicking on the text browses for a folder of recorded data on the PC’s hard-drive. |
| **4)** ![Calendar Date] | Selects the date on the calendar. |
| **5)** ![Calendar Hours] | Shows the hours of the day, with historical recordings highlighted by channel. |
| **6)** ![Quad Screen] | Select the viewing mode between Quad screen or Full Screen of individual channels. |
| **7)** ![Bookmark] | Creates a bookmark of a video segment for quick retrieval in the future. |
| **8)** ![Bookmark List] | Select from a list of Bookmarks that you have created. |
| **9)** ![Stop] | Exits Search mode. |
| **10)** ![Capture Image] | Brings up a dialog that captures a moment in video playback as an image. Refer to Section 5.9 for more details. |
| **11)** ![Connect] | Connects to another PC running VISTAPRO in order to search for recordings on the remote computer. Please refer to Section 7.1 for more information on Remote Search. |
| **12)** ![Channel] | Selects the channel information that is being displayed in the Playback Viewer. |
| **13)** ![Timeline] | Displays where recordings begin and end over a 60 minute period, and shows the type of recording that took place. |
| **14)** ![Record] | Records video locally when conducting a search of video on a remote PC. |
Basic Play / Stop / Pause / Next Frame / Fast Forward controls used during video playback. Refer to section 5.7 for more information.

Adjusts the speed of the video being played, with 1 being the slowest speed and 5 being the fastest. Refer to Section 5.7 for more information.

### 5.3 Local vs Remote Search Options

Search can be done locally on the host PC (where the cameras are connected), or you can search recordings from a remote PC that has VISTAPRO software installed. However, this chapter will only address local searches done on the host PC. For instruction on how to conduct a search for video from a remote PC, please refer to Chapter 7.

### 5.4 Retrieving Video Recordings

You can scan through the calendar and easily find your history of recordings.

Firstly, you can select the folder of your hard-drive in which the recordings that you wish to view exist. Clicking on the date above the calendar as shown below allows you to choose which folder to conduct the search in.

If you haven’t made any changes from the default Recording Directory, then you are already viewing the correct folder and don’t need to make any changes.

You will notice on the calendar that certain dates are highlighted in Red while one is highlighted in Blue.

Both the Red and Blue highlighted dates represent the presence of video recordings from that day. The Blue highlighted date is the day that is currently selected and being displayed on the timetable.

The timetable shows the 24 hours of the selected day being displayed, along with 4 camera locations. Hours of the day containing recorded video are highlighted in blue. The day shown in the example below only contains recording between 3-4 pm on Channel 1.
To retrieve video from a specific hour of the day, follow these steps:

1. Click on the blue square for the hour-long time frame that you wish to review;
2. The selected blue square changes to a darker blue color;
3. The first image from the selected hour containing video recording will appear;
4. Press the Play button to view all of the footage recorded during that hour-long period.

More information on how to navigate through recorded video can be found in Sections 5.5 and 5.6

5.5 Color Codes for Recording Methods

You will notice on the Playback Viewer (depicted above) that there are different colors representing different segments of recording. There are four different colored boxes that you may find on the Playback Viewer, and they each represent a different method of recording:

- Pink: Manual Recording (by clicking a the REC button)
- Green: Continuous Recording (scheduled to record at a specific time continuously)
- Red: Motion Detection Alarm Recording (triggered by pixel-based motion detection)
- Blue: Sensor Alarm Recorded (triggered by an External Sensor)

This feature informs the user of the reason why the recording took place.

5.6 Viewing Options in Video Playback

You can view retrieved video in either Full Screen or in Quad mode during Playback. Click on the Quad button to view in Quad screen, or click on Channel 1-4 to watch a channel in Full Screen viewing mode.

- If only 1 of the 4 cameras recorded any data at a specific time segment shown in Playback, then you can only view that one camera’s footage, either in Quad mode with 3 empty video screens, or independently in Full Screen mode.

- If more than one camera recorded data at a specific time segment, then you can view Playback of the recordings simultaneously in Quad mode, or manually scan between Full Screen views of the footage. Dual Output is therefore achievable in Playback.

5.7 Controls in Video Playback

You can review video in Playback using the standard VCR-type controls of Play, Stop and Pause. Clicking on the Next Frame button while playing video serves as a digital image Frame Jog. Pressing the button repeatedly moves the video forward one frame at a time.

Fast Forward and Rewind are not necessary controls when reviewing VISTAPRO digital video. You can instantly skip from point to point within the hour of recordings that you’re viewing simply by clicking on the precise minute in Playback Viewer.

You can choose between 4 different Play Speed Levels when reviewing video recordings. The levels are: 1, 2, 3, and 5. Level 1 is a slow-motion Playback speed, Level 5 is a faster Playback speed, while Levels 2 & 3 are intermediate.

5.8 Bookmarking

The bookmark feature allows you to access an important piece of video right away. When viewing a segment of video that you wish to Bookmark, click the Bookmark button and assign the video file with a Name for your reference.
To later retrieve the bookmark that you created, click on the Bookmark drop-down list and select the video file of your choice. The video file will appear, set at the same spot as it stood when bookmarked.

**THERE IS A LIMITATION OF 5 BOOKMARKS THAT CAN BE SAVED IN THE BOOKMARK LIST. SUBSEQUENTLY ADDED BOOKMARKS WILL DELETE AND REPLACE THE OLDEST BOOKMARK ON THE LIST.**

5.9 **Capture**

Pressing the camera icon in Search mode allows you to capture a moment from the video as an image in JPG or BMP format. Shown below is a depiction of the Capture dialog box:

You can adjust the Brightness, Contrast and Hue levels of the image that you have captured. To restore the image to the way it originally appeared upon capture, click the Default button.

After clicking the Save button, you will be asked to select whether you want to save the image in JPG or BMP format. Select one of the two options and save the image to a folder of your choice on your hard-drive. Another available option is printing the image directly from the screen by pressing the Print button.
CHAPTER #6 – REMOTE CLIENT CONNECTION

We have now completed covering all of the VISTAPRO features that are available in Local mode. Now we are ready to look at the core feature of this product: connecting to the host PC from a remote computer.

You can enjoy peace of mind by monitoring your home or office from across the hall or around the world. The Client Connection feature allows you to view live video from a remote location over the internet.

This chapter only covers viewing live video using the Client program. You can also make a remote connection in Search mode that allows you to find recordings on the remote PC. You can refer to Chapter 7 for information on the Remote Search features.

You must have the Client program installed on a second computer to utilize the remote feature.

6.1 Entering the Client Mode

To enter into the Client Connection screen, double click the shortcut icon on your Desktop.

6.2 Connection Methods

Before describing how to establish a connection to a remote host PC running VISTAPRO, it is important to note the various connection methods. The two basic forms of connection are LAN and Dial-up.

LAN – connection via a Local Area Network, including high speed internet connections such as DSL or ISDN.
Dial-up – connection via the phone line. Modems on both computers are required.

Within the LAN option, there are two methods for establishing a remote connection to the host (Server) computer: The two methods of connection are: IP address and Product Serial Number.

Fixed IP – select this option if you know the fixed IP address of the VISTAPRO host computer you wish to connect to;
Product Number – if the host computer has a Dynamic IP address, you can still connect to it by entering the product’s unique Serial Number as the address.

To connect to a host computer using the Dial-up method, you can only enter a phone number of the phone line that is connected to the host’s modem.

6.3 Login Setup

In order for you to set up a Client to Server connection, you must have the VISTAPRO software loaded on both computers and connected with your internet provider. The host computer must be kept ON and the application must be open.

Upon entering Client mode, you will be prompted with the following Login dialog:
If this is your first time utilizing the Client feature after installing the software, no connections will be listed in the Server drop-down selection. If you have already entered Server Connections, then the last Server that you attempted to connect to will be shown in the Server field.

In order to create a Server Connection, click on the Update button and the following screen will appear:

(i) **Server Name**
Type in a descriptive label for the remote connection.

(ii) **Server Address**
Type in the address of the host computer, whether it’s an IP address, Product Serial Number, or a phone number.

(iii) **Network Password**
Enter the 4-12 digit Network Password that is setup on the host computer. If no password changes have been made on the host system, then enter the default password “1111”.

(iv) **Connect Mode**
Choose your method of connection, whether it’s an IP address, Product Serial Number, or Dial-up (phone number).

Now that you have setup the remote connection, you will see the descriptive label entered for the connection in the Server field.

Finally, you need to check off which type of connection you are making: LAN or Dial-up.

Below is an example of a Client Connection setup by method of a fixed IP address.

Now, to remotely view the security camera footage live, press the Connect button. Wait for 10-15 seconds while the connection is being made. The Client application will then open, displaying video from the Server.
6.4 **Overview of the Client Application Window**

* Please refer to Section 6.5 for more information on the Pan Tilt / Zoom features in Client mode.

* Most of these buttons should look familiar from the Main Application Window covered in Chapter 4. The buttons perform the same functions in remote viewing as they do in local viewing. One exception is the Network Connection Status button, which terminates the connection when clicked on, and reconnects to the Server when clicked again.

The only new item on this Client screen is the Network Speed Status indicator, which tells you the speed of the video feed that you are receiving.

* Depending on the speed of your remote computer, the host computer, and the internet connection, the Network Speed Status varies. Real-time viewing of 30 fps is generally not attainable in remote viewing – a speed of 25 fps is more standard.
6.5 Setup Options in Client Mode

Clicking on the Setup icon in the Client program will bring up the following screen:

(i) **Switch Time**
You can alter the number of seconds that cameras are displayed before scanning to the next camera in Sequencing mode.

(ii) **Recording Directory**
You can change the folder to which the remote video feed is recorded on your hard-drive. The default folder is: 
C:\Program Files\VISTAPRO-DVR\Client_Mpeg_Home

(iii) **LAN Setup & Update**
LAN / Dial-up Setup performs the identical functions as the screen that appears upon entering Client mode. Refer to Sections 6.2 & 6.3 for more information of these Client Connection options.

6.6 Pan Tilt / Zoom in Client Mode

Firstly, the Pan Tilt feature is only available if you are using a DCP1000 Pan Tilt Dome camera with your system. The Focus and Zoom features require a compatible camera with Pan Tilt Zoom capability.

The Pan Tilt / Zoom / Focus features can be controlled from a remote location in Client mode. First select the Pan Tilt / Zoom camera that you wish to control. The button will turn blue, and you can then adjust the Panning / Tilting / Zoom / Focus features.

However, only one user is allowed to control a Pan Tilt camera at a time.

If you click on a Pan Tilt / Zoom Camera Select button and see the message “Other User Used”, that means that another remote user is accessing that particular Pan Tilt / Zoom camera at that time.

If the system displays the message “Server Used”, that means that a local user is accessing that particular Pan Tilt / Zoom camera at the same time from the host computer.

There is no priority between remote / local users over control of the Pan Tilt / Zoom camera. Whoever accesses the camera first is allowed control, while subsequent users are denied.
CHAPTER #7 – REMOTE SEARCH OPTIONS

We now return to Search mode, which offers remote users with the ability to find historical recordings on the host PC. Whereas Client mode only allows users to view live video from the Server, Remote Search mode allows you to review previously recorded footage from the host PC. Therefore, if an alarm is triggered, you can connect from anywhere in the world to the host computer via Remote Search and find the video recording showing exactly what occurred during the alarm.

7.1 Entering the Remote Search Mode

To start off, you need to be in Search mode. Please refer back to Section 6.1 for instructions on entering Search mode. If you are prompted for a Search Directory upon entering Search mode, be aware that specified Directory actually becomes disabled after connecting to a remote PC. The Search Directory tool is only utilized to find recordings that are on your hard-drive, not the remote PC’s.

In the Search Application Window, there is a Connect button at the bottom of the screen. Click on the Connect button, and you are prompted with a Connection dialog, which is actually identical to the Login dialog that appears upon entering Client mode (described in Section 7.3).

7.2 Setup Remote Search Connection

You will have to setup Remote Search Connections in order to connect to a remote PC in Search mode. The process for setting up these connections is the same as creating a Client Connection (also described in Section 7.3). Note that your connections setup in Client mode are not necessarily the same as your connections in Remote Search mode. You will have you create and update these connections separately.

Once you have completed the Update of your connection, select it from the drop down list in the Connection dialog and click on the Connect button.

7.3 Remote Search Application Window

After you have successfully connected to the remote PC in Search mode, you will find yourself in the Search Application window, which is visibly no different between the Local and the Remote Search applications. The buttons have the same functions, and the same procedures apply for finding video recordings by Date, Channel and Time. However, there are a few key differences:

1) You are viewing the history of recordings on the remote host PC;
2) Clicking on the Date above the Calendar will not allow you to change directories as this feature becomes disabled in Remote Search mode;
3) The Bookmark feature becomes disabled;
4) The Play Speed feature becomes disabled;
5) You can click the Record button in order to save the remote video feed on your hard-drive. After pressing Play, clicking Record brings up a “Saving…”. dialog, which shows you the directory to which the video file is being saved. An example of such a dialog is shown below:

![Saving dialog]

6) When you select a date on the calendar from which you wish to view recorded footage, you are prompted with the following Day-Download window:
Clicking on the Stream button will list all of the recordings from the selected date by channel. Clicking on the Download button will download all of the recordings from that day onto your PC.

7) When you select an hour segment for which you wish to view recorded footage, you are prompted with the following dialog:

When you click on the Stream button, you will be viewing the video from the remote PC, transmitted over the internet. The video file will not actually download onto the hard-drive your PC making the remote connection. Therefore, when you close the program, you will not be able to retrieve Streamed video.

Clicking on the Download option saves the video file that you are accessing to your hard-drive. Wait while the video file downloads 100% as shown below and then click OK.

The video file that you just downloaded will then appear in the Video Playback viewer. Press Play to watch the video file. To watch that video file again at a later time, take note of the directory to which the file was saved. In the example shown above, the video files was saved to the directory c:\program files\VISTAPRO-dvr\down_mpeg_showroom\20030331\ch3_100411b.dat

You can access and retrieve Saved / Downloaded recordings by finding them using the Search Directory when conducting a Local Search of recorded video on your hard-drive.
CHAPTER #8 – TECHNICAL SPECIFICATIONS

8.1 **Camera Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Device</td>
<td>Color CMOS</td>
</tr>
<tr>
<td>Picture Elements</td>
<td>510 x 492</td>
</tr>
<tr>
<td>Horizontal Resolution</td>
<td>330 TV lines</td>
</tr>
<tr>
<td>Minimum Illumination</td>
<td>2 lux @ F2.0</td>
</tr>
<tr>
<td>S/N Ratio</td>
<td>More than 48 dB</td>
</tr>
<tr>
<td>Auto Electronic Shutter</td>
<td>EIA 1/60 s – 1/15,000 s</td>
</tr>
<tr>
<td>Scanning System</td>
<td>Interlace 2:1</td>
</tr>
<tr>
<td>Video Output</td>
<td>1 Vp-P / 75 ohms</td>
</tr>
<tr>
<td>Audio Output</td>
<td>2 Vp-P / 50 ohms</td>
</tr>
<tr>
<td>Power Supply</td>
<td>12 Volt (supplied)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-10 °C to +50 °C (14 °F to 122 °F)</td>
</tr>
</tbody>
</table>

* Color cameras are included with some systems (depending on the model purchased).

8.2 **Minimum System Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Pentium III 733MHz or higher</td>
</tr>
<tr>
<td>RAM</td>
<td>More than 128 MB Ram</td>
</tr>
<tr>
<td>Video Card</td>
<td>VGA Compatible Video Card - 16 MB or higher</td>
</tr>
<tr>
<td>Display</td>
<td>800 x 600 VGA Color display or better</td>
</tr>
<tr>
<td>Disk Space</td>
<td>40 MB available hard disk space</td>
</tr>
<tr>
<td>Modem</td>
<td>28 bps or higher modem (broadband connection recommended)</td>
</tr>
<tr>
<td>CD-ROM Drive</td>
<td>Required for software installation</td>
</tr>
<tr>
<td>PCI Card Slot</td>
<td>1 vacant slot required, 2 if purchasing the Alarm Board</td>
</tr>
<tr>
<td>Recommended VGA cards</td>
<td>RIVA TNT 2, GeForce2 MX 100/200, GeForce2 MX 400, ATI XPERT 2000 Pro, Voodoo3, ATI RADEON 7200</td>
</tr>
</tbody>
</table>

**FOR MORE INFORMATION:**

[www.strategicvista.com](http://www.strategicvista.com)
<table>
<thead>
<tr>
<th>QUESTION</th>
<th>ANSWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 What’s my Password?</td>
<td>The default Password is always “1111”, unless you have changed your Setup / Network Passwords.</td>
</tr>
<tr>
<td>2 I forgot my Password – what can I do?</td>
<td>You can reinstall the software over the existing version that you already have on your PC. The password will return to the default of “1111”.</td>
</tr>
<tr>
<td>3 How do I escape from the Maximized Screen view? Why won’t the Password work?</td>
<td>After right-clicking to exit the Maximized Screen, type in your Password using the number keys located above the letters on the keyboard. The Number Pad will not work because it’s disabled.</td>
</tr>
<tr>
<td>4 Why does the video quality look poor?</td>
<td>Adjust the Quality level of video recording from Low to Medium to High in the Video Setup Options.</td>
</tr>
<tr>
<td>5 Why is the video playing back so slowly / quickly in Search mode?</td>
<td>You can adjust the Play Speed Level between 1 (the slowest) and 5 (the fastest) when playing video in Search mode.</td>
</tr>
<tr>
<td>6 When I playback locally recorded video in Search mode, why aren’t I seeing real-time video?</td>
<td>Try adjusting the Total Capture Frame to 30 frames per second in the General Setup Options.</td>
</tr>
<tr>
<td>7 What is the Product Number?</td>
<td>The Product Number is the Serial Number provided with the software CD.</td>
</tr>
<tr>
<td>8 Why can’t I get the Motion Detection to activate, even after I defined the Area?</td>
<td>You must first schedule for Motion Detection to be activated at specific times by Channel in the Schedule Rec Setup Options before Motion Detection will trigger recording.</td>
</tr>
<tr>
<td>9 In remote viewing, can I maximize the screen?</td>
<td>No, you can only maximize the size of the screen in Local mode.</td>
</tr>
<tr>
<td>10 In Client mode, why is the live video appearing slow?</td>
<td>If you are connecting via a modem, you will only see about 3 frames per second. If you’re connecting via LAN, internet traffic and the speed of your ISP’s connection can cause variance in the rate of video streaming.</td>
</tr>
<tr>
<td>11 If my network system has a defensive firewall, how is it possible for a Client to connect?</td>
<td>The Port Number for the VISTAPRO software is set at 2000. You need to open this port in order to permit Client connection via an external network.</td>
</tr>
<tr>
<td>12 Is VISTAPRO compatible with Windows 98 / 2000 / ME / XP?</td>
<td>Yes, VISTAPRO is compatible will all of these operating systems.</td>
</tr>
<tr>
<td>13 Can I use VISTAPRO with a Mac / Apple computer?</td>
<td>No, VISTAPRO is not compatible with Mac / Apple.</td>
</tr>
</tbody>
</table>
APPENDIX #1 – AVAILABLE ACCESSORIES

The following items are additional available accessories that enhance the capabilities of your system:

I/O Alarm Board

Camera

The Alarm Board allows the user to connect external alarms (eg: motion sensors) to the system

Color cameras are included with some systems (depending on model purchased)

Pan – Tilt / Zoom

Pan – Tilt Dome Camera

Pan – Tilt & Zoom Dome Camera

Interface Box

(needed to connect PTZ cameras to PC, sold separately)

RS232-C to RS485 Converter

Auto Pan – Tilt Dome cameras, with or without the Zoom feature, are compatible with the system and can be controlled via the software. The RS232C to RS485 Converter is sold separately.

VISTAPRO can accommodate up to four Pan – Tilt / Zoom cameras, but the system only requires a single RS232 Converter to support 1~4 cameras.

Teleswitch Kit

Allows you to dial into your system and turn on the computer by phone

ALL AVAILABLE ACCESSORIES CAN BE PURCHASED ONLINE AT:

www.strategicvista.com
APPENDIX #2 – HARDWARE INSTALLATION

Before installing the VISTAPRO software, you must first connect the 4 Port PCI card into your PC. The 4 Port PCI card has 4 Video inputs, allowing you to connect up to 4 cameras to your system.

This appendix will only cover the installation of the core components – the 4 Port PCI card and standard cameras. If your system includes other accessories, please refer to the manual included with that accessory unit for connection instructions.

2.1 4 Port PCI Card Diagram

Camera 1-4: BNC Video inputs for connecting up to 4 cameras into the 4 Channels
Power Out 1-4: Power source for cameras (an alternative to an external adapter – power connector not included with this system)
Power Supply: Connects to the supplied power cable, allowing for cameras to receive power directly from the computer's Main Board.
GPIO Port: Connects to the Alarm Block (optional accessory)

In order to connect a camera to the DC Power Out inputs, you need a Mini Plug Connector. This connector is necessary because the power inputs on the PCI card are smaller than conventional power inputs.

The power supply feature of the PCI card allows for a neater set up by eliminating the need for further wires & adapters. However, this feature is not essential since the cameras can also receive power from an external power supply.

2.2 Precaution Prior to Installation

Installing the 4 Port PCI card requires some degree of technical meticulousness. If you have no previous experience in opening up a computer and inserting hardware, it is advisable for you to seek assistance from a more qualified individual before proceeding.

TURN OFF YOUR PC AND UNPLUG IT BEFORE OPENING THE COMPUTER AND INSERTING THE HARDWARE
2.3 **Installing the 4 Port PCI Card**

1. Carefully remove the cover from your computer.

2. Below is a picture of the inside of a typical PC. Notice that there are several vacant PCI card slots. Additionally, there are metal covers on the vacant slots. Remove one of the metallic coverings in order to accommodate the 4 Port PCI card into that PCI slot.

3. Slide the 4 Port PCI card into a vacant PCI slot.
4. Connect the Power Supply cable (included with the system) to a power cable from your PC. Connect the other end of the cable to the Power Supply Port of the PCI card.

One of the leads on the Power Supply cable does not connect to any part of the VISTAPRO system. It is intended as a backup power cable for your PC to compensate for the power outlet being utilized by VISTAPRO.

5. Seal the computer. The 4 Port PCI card should appear in the back of your PC as shown below.

6. Connect cameras into the Camera 1-4 inputs.

Congratulations! The hardware installation is now complete.
APPENDIX #3 – GLOSSARY

4 Port PCI Card – The video card included with VISTAPRO, which needs to be manually inserted into a PCI Slot in order to connect cameras.

Auto Pan-Tilt / Zoom – Motorized dome cameras with the ability to automatically Pan and Tilt are available as accessories – some models have Zoom capability as well. Auto Pan-Tilt / Zoom camera models are controllable via VISTAPRO software, provided that you purchase a compatible model.

Broadband – Broadband is a general term used to refer to a fast Internet connection.

Client – One of the three programs included with VISTAPRO - allows you to view live video over the Internet. A user making a connection from a remote PC to a host computer where the cameras are connected is referred to as a “Client”.

Continuous Recording – Video recording that occurs according to a weekly schedule.

Dial-up – Connecting to a remote PC using a modem, dialing a telephone number.

Direct X 8.1 – Microsoft’s media software which supports VISTAPRO’s video streaming.

Dynamic IP – Dynamic IP is an IP Address that changes periodically. Please check with your Internet provider to see if you have a dynamic or Fixed IP Address.

Frame Jog – Viewing a video file by forwarding it frame-by-frame in Playback mode.

IP Address – An IP Address is the unique address of your computer on the Internet. Please check with your Internet provider to see if you have a dynamic or Fixed IP Address.

LAN – Local Area Network type of connection to a remote PC, using a high-speed Internet connection.

Local Connection – A local connection is set up at the computer that has the PCI Card and cameras installed. It is referred to as the “Local Video” because the security camera is local to this computer. VISTAPRO will stream video from this location to the Internet, thus it is sometimes referred to as the host computer.

Manual Recording – Video recording that occurs manually by pressing a Record button.

Motion Recording – Video recording that occurs automatically upon motion being detected by VISTAPRO’s built-in pixel motion detection feature.

Quad – The viewing mode that displays a split-screen of 4 different camera locations.

Remote Connection – A remote connection is set up at any computer that has VISTAPRO software installed without a camera. Use the remote connection to log into the Server and view streamed video from your cameras.

Remote Search – Conducting a search for video recordings on a host computer from a remote PC.

Search – One of the three programs included with VISTAPRO – allows you to find previously recorded video, searching by time & date, and by channel.

Sequencing – The viewing mode that automatically scans between the 4 channels.

Sensor Recording – Video recording that occurs upon triggering of an external motion sensor connected to VISTAPRO’s optional Alarm Block accessory.

Server – One of the three programs included with VISTAPRO – the Main Application. This software only functions on the host PC that has the PCI Card plus cameras connected, and it allows you to program recording plus alarms. The host computer is sometimes referred to as the “Server”.

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