VP - 580

Digital Video Recorder

Software User Manual

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1. Overview

This manual will guide you through the features and functions of the VP-580 Network Digital Video Recorder (DVR) system. Read this section to get an overview of the product.

1.1 Introduction

The FORMOSA21 VP-580 Network DVR System is a high performance digital video recorder and web server all in one. Features include a real time video capture utility, and video compression that allows efficient transmission of moving images over a network. Video can also be displayed on a local VGA monitor. The VP- 580 can record and play back digital video simultaneously while continuing to display live video. Video footage is saved to a removable hard disk.

Up to 8 cameras can be connected to a single VP- 580 unit. Full motion video with audio over Internet or intranet is supported. Video output can be viewed using a standard PC and web browser with custom plug-in software. Camera pan, tilt, zoom, and focus functions can be controlled over the network, and the unit can be configured to react a particular way to when certain events occur. An IR remote control unit is included to make setup and operation as trouble free as possible.

1.2 System requirements

Cameras

Composite CCD, V8, or camcorder
NTSC or PAL standard

Network equipment

RJ-45 Ethernet port and connection to Internet or intranet (network mode)
Public or private IP address (Network mode and Internet access)
VGA monitor for local display

PC for configuration for remote viewing

Pentium IV 1.7GHz CPU or better
256MB RAM or more
AGP VGA card
Microsoft Windows XP/2000/ME/98 operating system
Standard Internet browser such as Internet Explorer

1.3 Features

Video and audio recording:

Up to 8 black and white, or color cameras
Up to 30 fps for each camera (local monitoring)
Record, playback and, display simultaneously
Built-in QUAD/multiplexor functions (local monitoring)
Local playback of recorded footage on VGA or TV monitor
Remote playback in PC browser
Query recorded data referenced by date, time, and event
Support for popular PTZ cameras

High video quality and low data rate

Up to 200:1 video compression
Multiple video compression engines including, H.263, JPEG, M-JPEG, and MPEG4

Network

Dynamic IP support for Internet access
Direct dial-up support

Data storage and backup

Removable hard disk
Optional CD writer

Easy to use

Plug and play, non Windows embedded real-time OS
Easy configuration using either keyboard, mouse, IR remote control, home page, or RS-232 terminal
The only client application required is a standard web browser

Alarm functions

Motion detection, event trigger, schedule, pre alarm recording
E-mail ,Voice Call and FTP alarm notification
Optional GPI/O for alarm control

Customization

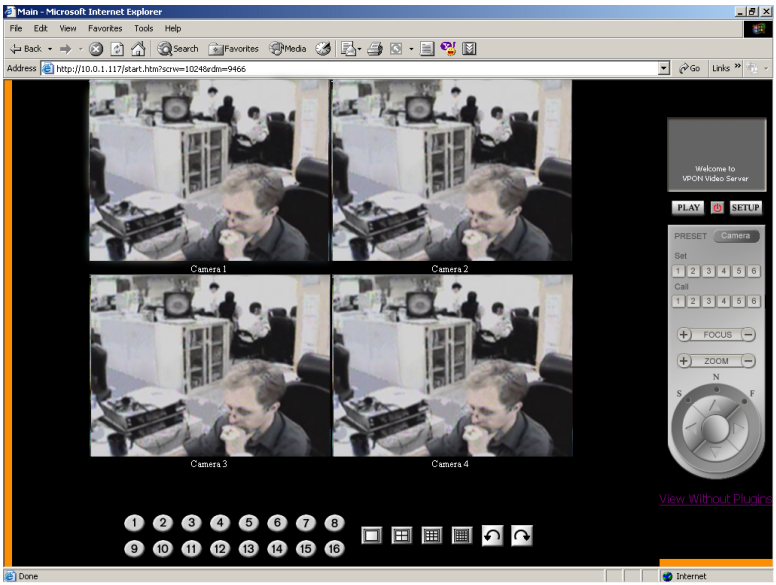
HTML file upload support for home page customization
FTP server upload support for customization

1.4 About the GUI

The VP- 580 can be configured and operated using either the local GUI, or over a network.

1.4.1 The local GUI

1.4.2 The network GUI



2. Getting Started

Read this section to get your VP- 580 up and running. This section assumes that the VP- 580 is already connected and cameras are attached. For more information, see the user manual supplied with the unit.

Live footage can be viewed either on the local screen connected to the VP-580 or over a network if a connection exists.

2.1 Running modes

Images can be viewed on the screen attached to the VP- 580. You can control the number of images displayed on the screen and configure the VP-580 using either mouse control, or IR remote controller.

Turn the VP- 580 on using the power switch on the rear of the unit and the switch on the front panel.

The VP- 580 will boot up in either IR control or mouse control running mode.

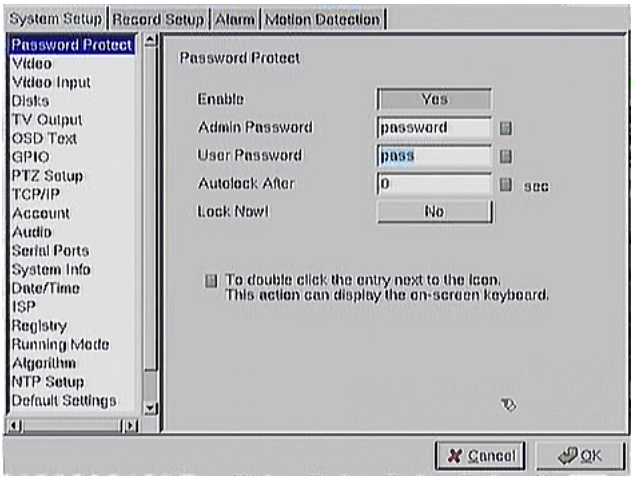
> **Note:** The default startup mode for the VP- 580 is IR control mode. This can be changed by setting the Running Mode option as described later in this section.

Depending on how the VP- 580 is configured, you will see images from the attached cameras on the screen.

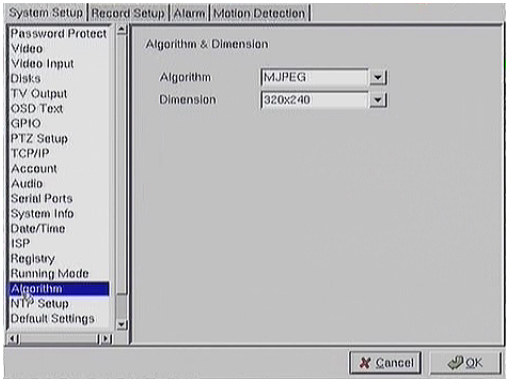
If the VP- 580 is in **mouse** running mode, a graphical user interface (GUI) with clickable buttons will be displayed on screen as shown below. In this running mode, the IR remote control will not function. When the VP- 580 is in **IR remote control** running mode, no GUI is displayed, only feeds from the connected cameras.

Follow these instructions to switch from mouse running mode to IR remote control running mode.

1.Click the **SET UP** button on the GUI to display the setup menu.



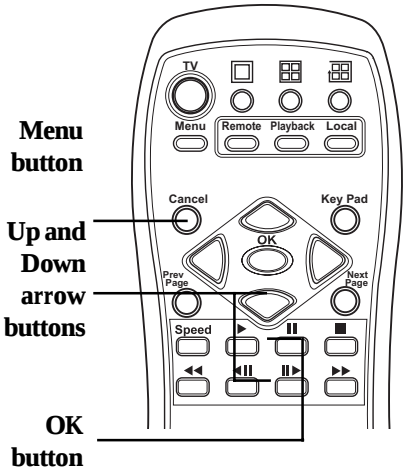
2. From the list on the left of the screen, click the **Running Mode** heading to display the running mode menu.



3. From the **Control** dropdown box, choose **IR Control**.
4. **From the Mode** dropdown box, choose either **ISP mode** if you are connected using an ISP type connection, or **Network Mode**, if you are connected to a network.
5. Click **OK.**

The system will automatically reboot in IR remote control mode. Follow these instructions to switch from IR remote control running mode to mouse running mode.

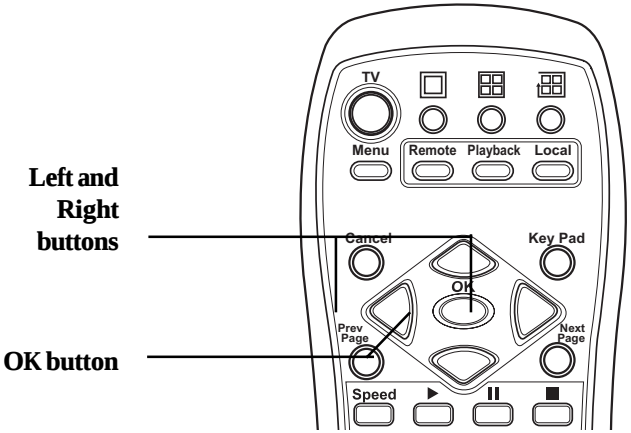
1. Press the **Menu** button on the remote control to display the setup menu on screen.



2. Use the up and down arrow buttons to highlight the **Running Mode** option and press the **OK** button to confirm your choice.

The running mode menu will be displayed on screen.

3. Use the up and down arrow buttons to highlight the **Control – IR Control** field.
4. Use the left and right arrow buttons to toggle between **Control – IR** and **Control – mouse**.
5. Press the **OK** button when the control field is set to mouse.

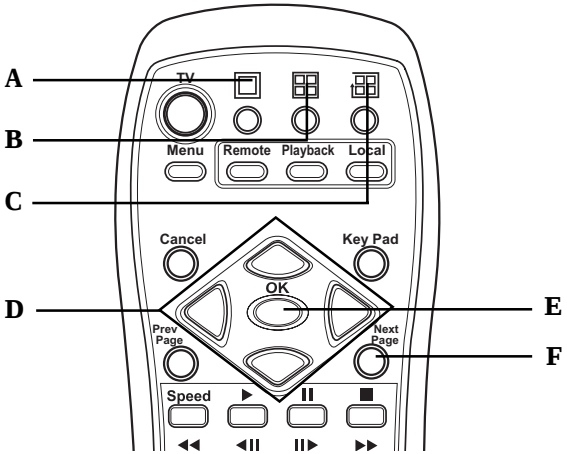


The unit will reboot when the **OK** button is pressed. It will restart in mouse running mode.

2.2 Viewing live images on the VP- 580

Images from the VP- 580 can be viewed locally with the machine in either **mouse** running mode, or in **IR remote control** running mode. See **Running modes** on page 5 for more information. Up to 16 cameras can be connected to the VP- 580. All cameras can be displayed on the screen at the same time, or just a selection of your choice. A single camera image can also be displayed on the screen or images from all connected cameras can be displayed in sequence.

When in IR remote control running mode, use the buttons on the remote control to alter the display.



- Press button **A** to display a single image on screen and use the Up, Down, Left, or Right arrow buttons, **D** to cycle through video inputs from all the connected cameras. Alternatively, use the Prev Page and Next Page buttons, **F**, to cycle through all the connected cameras. You can also press a number button to view the corresponding camera.
- Press button **B** to select **Single** (1 image), **Quad** (4 images), **9 splits** (9 images), **16 splits** (16 images), or **sequence** (all or selected images automatically in sequence) from the Display setting menu on screen. Use the Up and Down arrow buttons, **D** to highlight a selection. Press the OK button, **E** to confirm. Use the Up, Down, Left, or Right arrow buttons, **D** to cycle through all the connected cameras.
- Press button **C** to cycle automatically through video inputs from all or selected cameras.

When in mouse running mode, equivalent buttons exist on the screen to select images.

- Use buttons A, B, C, or D to select 1, 4, 9, or 16 images on screen.
- Use the arrow buttons, E to cycle through all connected cameras.
- Use the sequence button, F to automatically cycle through all the connected cameras.
- Use the numbered buttons from 1 through 8 to select an individual camera.

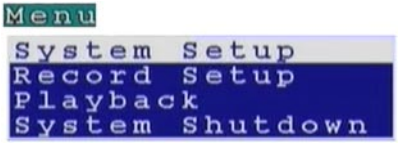
3. IR remote control operation

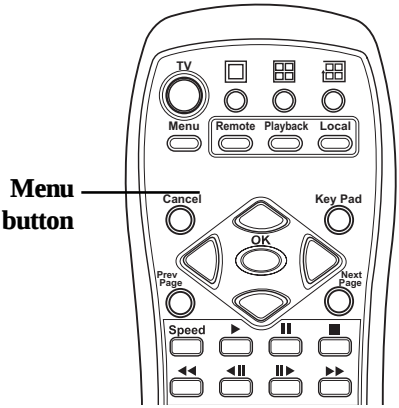
3.1 Introduction

The VP-580 can be used and configured with either the supplied remote control unit or with a keyboard and mouse. This chapter covers remote control operation. The VP-580 must be in **IR remote control** running mode for remote control operation to function.

3.2 Main menu

Press the **Menu** button on the remote control to display the main menu on screen.

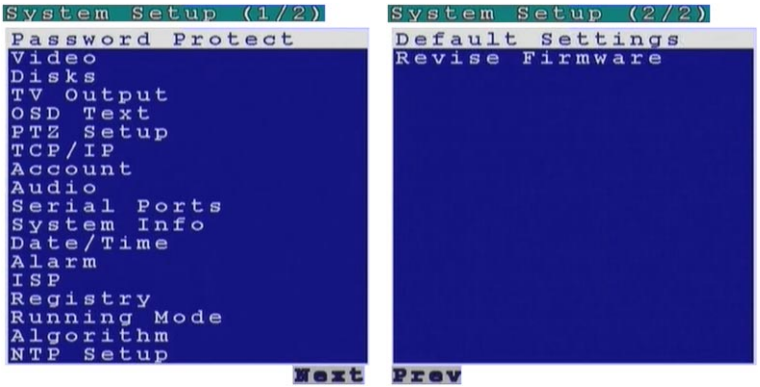




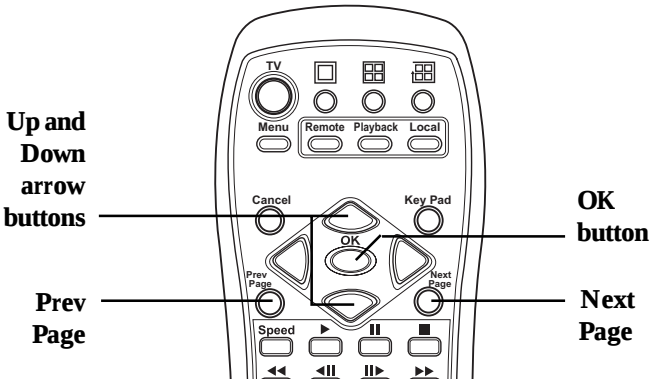
Use the **Up** and **Down** arrow buttons to select one of the four options and press the **OK** button to confirm your choice.

3.3 System setup

The **System Setup** menu enables you to change many different parameters of the VP- 580. This section describes each option in the **System Setup** menu.



Use the **Up** and **Down** arrow buttons to highlight an option, and use the **OK** button to confirm your choice. You can move between pages using the **Prev Page** and **Next Page** buttons on the remote control.



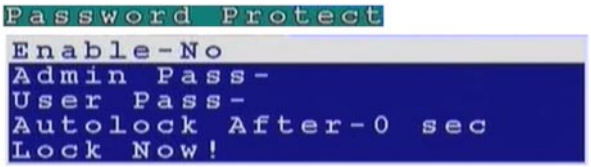
3.3.1 Password protect

Use the **Password Protect** option to enable password protection, set administrator and user passwords, set the autolock period and lock the system immediately. Enabling password protection prevents unwanted users from accessing or configuring the VP- 580. The **Password Protect** menu has the following choices:

- **Enable** – enables password protection.
- **Admin Pass** – sets the admin password.
- **User Pass** – sets the user password.
- **Autolock After** – enables password protection after the specified time interval.
- **Lock Now!** – enables password protection immediately.

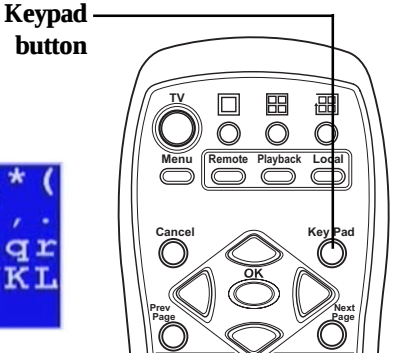
To set the user or admin password:

1. Use the **Up** and **Down** arrow buttons on the remote control to highlight the **Admin Pass** option to set the administrator password or the **User Pass** option to set the user password.



2. Press the **Right** arrow button to display the password entry screen.

3. Press the **keypad** button on the remote control to display the on-screen keyboard.



4. Use the **Arrow** buttons on the remote control to choose a letter and use the **OK** button to confirm you choice.
5. When the new password has been entered correctly, press the **keypad** button on the remote control to turn off the on-screen keyboard.
6. Press the **OK** button to confirm the new password.

When user or admin passwords are set and enabled, you will be prompted for a password when they attempt certain functions. Use the on-screen keyboard to set user or admin passwords as described.

To set the password protect function:

1. Select the **Enable** option from the **Password Protect** menu.
2. Use the **Left** and **Right** arrow buttons to toggle between **Yes** and **No**.
3. Press the **OK** button to confirm your choice.

The autolock function in the Password Protect menu will lock the system after the specified period of inactivity.

To set the period of inactivity before the system is locked:

1. Highlight the autolock option in the **Password Protect** menu.
2. Use the **Left** and **Right** arrow buttons to increase or decrease the period of inactivity.
3. Press the **OK** button to confirm your choice.

To lock the system immediately:

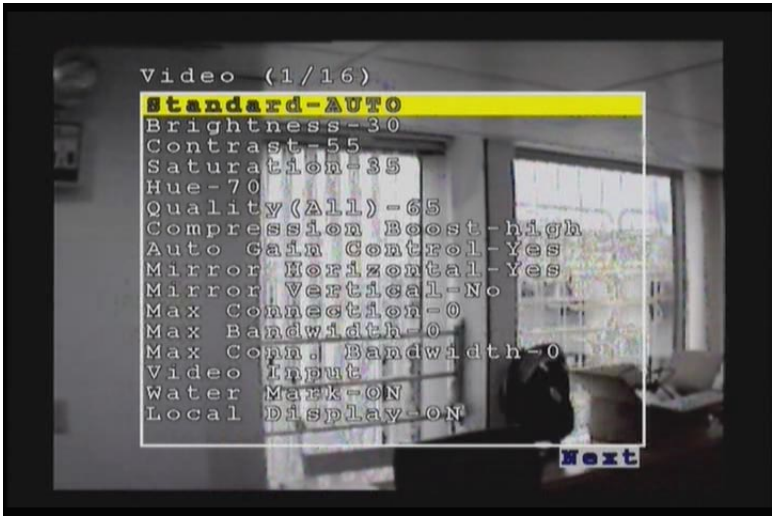
1. Highlight the **Lock Now!** function in the **Password Protect** menu.
2. Use the **Left** or **Right** arrow buttons to confirm the operation.

3.3.2 Video

Use the **Video** menu to set all the video parameters for the cameras connected to the VP-580. There is one video screen for each camera with the following parameters:

- **Standard** – sets the video signal format. Choose NTSC in the US, or PAL in Europe and most Asian countries. If you are not sure about this option, select Auto. VP-580 will detect the video standard automatically.
- **Brightness** – adjusts the amount of light or brightness for the selected camera according to your preference.
- **Contrast** – adjusts the difference between light and dark areas or contrast for the selected camera according to your preference.
- **Saturation** – adjusts the amount of color for the selected camera.
- **Hue** – adjusts the dominant color for the selected camera.
- **Quality (All)** – adjusts the video quality for all cameras. The default setting is 80. We recommend that you do not set this to 100 to avoid a slower rate of video transmission and using up a significant amount of hard disk space.
- **Compression Boost** – enables you to compress the video signal to save disk space and thus extend recording time. It is recommended to keep this setting to None. The higher the compression boost, the lower the video data rate.For a significantly lower data rate, we recommend you use the H.263 algorithm (see **Algorithm** on page 35).
- **Auto Gain Control** – enables automatic gain control to adjust the video signal strength.
- **Mirror Horizontal** – flips the video signal from the selected camera along the horizontal axis.
- **Mirror Vertical** – flips the video signal from the selected camera along the vertical axis.(Live video only)
- **Max Connection** – limits the maximum number of connections allowed to access the VP- 580 over the Internet. Set to zero to allow the maximum number of connections.
- **Max Bandwidth** – sets the maximum bandwidth in bytes/second that can be used by users connecting to the VP-580 over the internet.

- **Max Conn. Bandwidth** – sets the maximum bandwidth allocated for each connection to the VP-580. This is the maximum bandwidth divided by the maximum connections.
- **Video Input** – sets the position of the camera input displayed on your local screen. Changes to this setting will take effect only after the system is rebooted.
- **Water Mark** – Sets a water mark on the video image. This option is available only for JPEG and MJPEG algorithms (see **Algorithm** on page 35).
- **Local Display** – enables viewing the selected camera video signal on the local display. If this option is set to Off, the camera is still optional and its video can be recorded if needed.



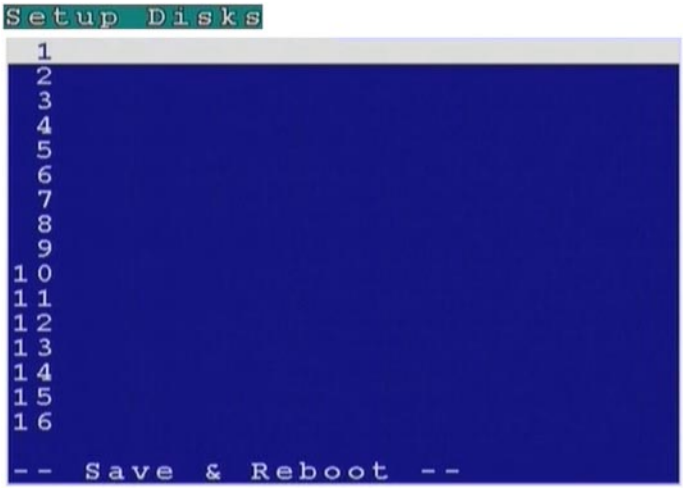
To change the video parameters:

1. Use the **Up** and **Down** arrow buttons on the remote control to highlight the option.
2. Use the **Left** and **Right** arrow buttons to change the value assigned to the setting.
3. Press the **OK** button to confirm the new settings.

Each camera has its own video screen. To move between the screens for each camera, use the **Prev Page** and **Next Page** buttons on the remote control.

3.3.3 Disks

Use the **Disks** menu to add and remove network disks from the system. Network disks can be used to provide extra storage to extend recording time.



To add a network disk:

1. Highlight the disk you want to add and press the **OK** button.
2. When the **Add Disk** screen is displayed, press the **OK** button.

The **Add Network Disk** menu is displayed, enabling you to set the IP address and volume size of the disk, test its validity, and save the disk parameters.

To enter an IP address:

1. Use the **Up** and **Down** arrow buttons on the remote control to highlight the **IP/Addr** option and press the **Right** arrow button to confirm the choice.
2. Enter an IP address using the number buttons on the remote control.

Note: You cannot enter a period (dot) between the fields in the IP address using the remote control keypad. Use the on-screen keypad to enter the dots. See **Password protect** on page 13 for more details about how to use the on-screen keypad.

3. Press the **OK** button to confirm the new address.

To enter a volume name for the new disk:

1. Use the **Up** and **Down** arrow buttons on the remote control to highlight the **Volume** option and press the **Right** arrow button to confirm the choice.
2. Use the on-screen keyboard to enter a volume label for the new disk. See **Password protect** on page 13 for more details.

To test a network disk:

1. Use the **Up** and **Down** arrow buttons on the remote control to highlight the **Test!** option.
2. Press the **OK** button to confirm the choice.

The test result will appear on the screen.

To save disk parameters:

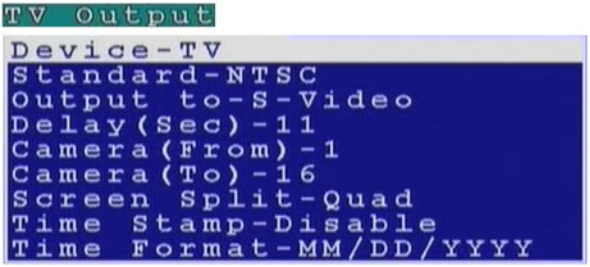
1. Use the **Up** and **Down** arrow buttons on the remote control to highlight the **Save!** option.
2. Press the **OK** button to confirm the choice.

3.3.4 TV output

The VP-580 can be connected to a VGA monitor or a TV to view the camera video signal. Use the **TV Output** menu to set the following parameters for the video output port:

- **Device** – sets the output to VGA or TV.
- **Standard** – sets the signal format for the output device. Select from NTSC, PAL, SECAM, and so on.
- **Output to** – sets the video output to the composite or S-Video signal.
- **Delay** – sets the delay between consecutive camera signals when displaying all the camera signals automatically.
- **Camera (From)** – specifies the first camera signal displayed in the automatic cyclic camera mode. (See page 9.)

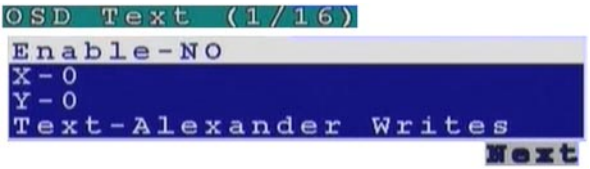
- **Camera (To)** – specifies the last camera signal displayed in the automatic cyclic camera mode. (See page 9.)
- **Screen Split** – sets the number (1, 4, 9, or 16) of cameras to be shown on the local screen.
- **Time Stamp** – Enables and specifies the position of the time stamp on the screen.
- **Time Format** – Specifies the format of the time stamp.



Use the **Up** and **Down** arrow buttons on the remote control to select any one of the displayed parameters and use the **Left** and **Right** buttons to cycle through the available options. Press the **OK** button when parameters are set correctly.

3.3.5 OSD text

A line of text can be displayed with the video from each camera connected to the VP-580. Use the **OSD Text** menu to enable the text and alter it. You can also set the position of the text using the X and Y parameter values. Increasing the value of Y moves the text down the screen. Increasing the value of X moves the text to the right.

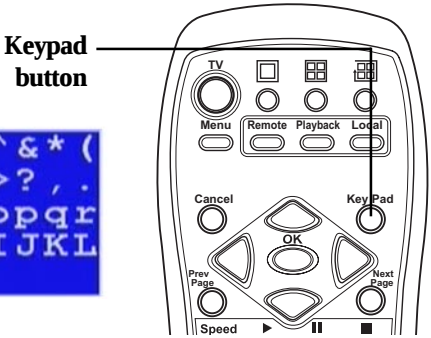


To alter the text position:

1. Use the **Up** and **Down** arrow buttons on the remote control to highlight **X** or **Y**.
2. Use the **Right** button to increase the value and the **Left** button to decrease the value.
3. Press the **OK** button when the value is correct.

Use the on-screen keyboard to alter the OSD text as follows:

1. Use the **Up** and **Down** arrow buttons on the remote control to highlight the **Text** option.
2. Use the **Right** arrow button to confirm.
3. Press the **keypad** button on the remote control to display the on-screen keyboard.



4. Use the **Arrow** buttons to highlight the letters you need for your text and press the **OK** button to choose them.
5. When your text is complete, press the **Keypad** button to remove the on-screen keyboard.
6. Press the **OK** button to save the new text.

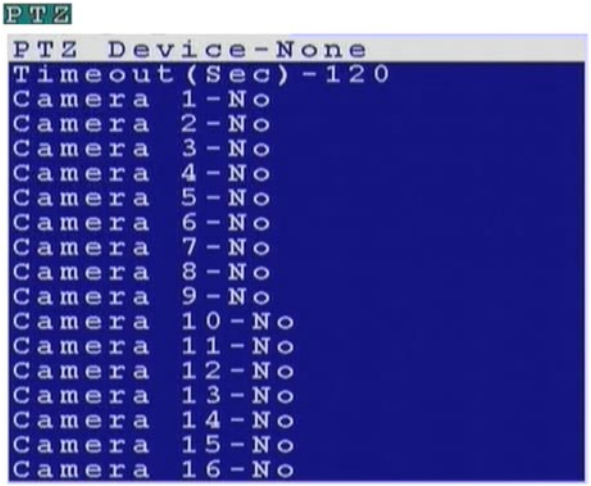
3.3.6 PTZ setup

Use the **PTZ** (Pan, Tilt, Zoom) **Setup** menu to set the type of PTZ cameras connected to your VP-580. Refer to the specific product documentation for further details and to see if additional hardware is required.

Also use this menu to set the timeout values for each PTZ camera connected to the VP-580. The timeout value represents the time given to the cameras to respond to a remote control command.

To configure a camera connected to the VP- 580 as a particular PTZ device, follow these instructions:

1. Use the **Up** and **Down** arrow buttons to select the **PTZ device** field.



2. Use the **Left** and **Right** buttons to cycle through the available device types until the correct device type is displayed.
3. Use the **Up** and **Down** arrow buttons to select the camera to configure.
4. Press the **Right** arrow button to display **Yes** in the field to indicate that a camera of the device type displayed is connected.
5. Repeat the procedure for all PTZ cameras connected to the VP-580.

To set the timeout value for PTZ cameras connected to the VP-580:

1. Use the **Up** and **Down** arrow buttons to highlight the **Timeout** field.
2. Use the **Right** arrow key to increase the value and the **Left** arrow key to decrease the value.
3. Press the **OK** button to confirm the new value.

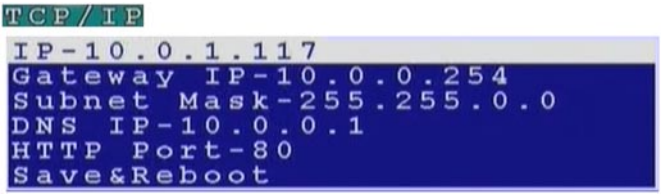
3.3.7 TCP/IP

Use the **TCP/IP** menu to set the IP address of the VP-580, the gateway, the subnet mask, the DNS server IP address, and the HTTP port. If you want to use the VP-580 on your network, see your network

administrator to obtain a valid IP address for the VP- 580.

To change the TCP/IP parameters:

1. Select the field to change using the **Up** and **Down** arrow buttons.



2. Press the **Right** arrow button to confirm.
3. Use the number pad on the remote control to enter a new value
4. Press the **OK** button to confirm the new value.
5. Select the **Save&Reboot** option using the **Up** and **Down** arrow buttons and press the **OK** button to restart the system and bring the changes into effect.

Note: A more detailed description of how to change TCP/IP parameters can be found in the hardware manual.

3.3.8 Account

Use the **Account** menu to set up an administrator name and password as well as user name and passwords. The default administrator name is **Webmonitor** and the default password is **OYO**. You can also use this menu to set up to 16 additional users, their passwords and their permissions on the system.

Note: It is important that you set up a user name and password. The user is different from the administrator and has access to only the video. Use the **More Users** function to alter the authorities of users who access the VP- 580 from the Internet.

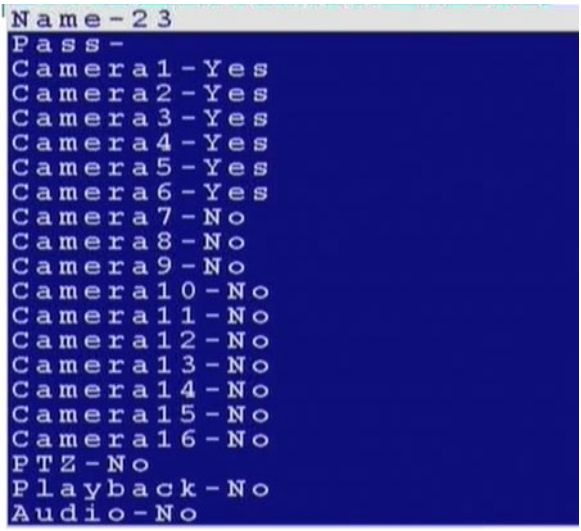
To set an Admin/User name or password:

1. Use the **Up** and **Down** arrow buttons to select the field to change.

2. Press the **Right** arrow button to confirm.
3. Press the **Key Pad** button on the remote control to display the on-screen keyboard.
4. Use the **Arrow** buttons to select the letters you require and the **OK** button to confirm.
5. When the field is correct, press the **Key Pad** button to turn off the on-screen keyboard.
6. Press the **OK** button to confirm.

To set up additional users and their permission rights:

1. Use the **Up** and **Down** arrow buttons to select the **More Users** choice.



2. Press the **Right** arrow button to confirm.
3. Use the **Arrow** buttons to select the **Name** and **Pass** options and modify these fields in the same manner as in the previous procedure.
4. Use the **Up** and **Down** buttons to select any cameras from **Camera1** through **Camera8**.
5. Press the **Right** arrow to select **Yes** to allow the user to access and control the selected camera.

6. Use the **Up** and **Down** buttons to select the **PTZ** option.
7. Press the **Right** arrow button to select **Yes** to enable PTZ control of the selected cameras for the user.
8. Use the **Up** and **Down** buttons to select the **Playback** option.
9. Press the **Right** arrow button to select **Yes** to enable the user to record and play back the signal from the selected cameras.
10. Use the **Up** and **Down** buttons to select the **Audio** option.

Note: Audio can be disabled for live viewing and playback of recordings using the Audio Disable function.

11. Press the **Right** arrow button to select **Yes** to enable the user to hear the live audio from the selected cameras.

3.3.9 Audio

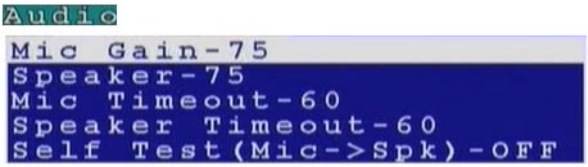
Use the **Audio** menu to set up the audio parameters for the VP- 580. The configurable parameters areas follows:

- **Mic Gain** – adjusts the gain of the microphone.
- **Speaker** – adjusts the speaker output level (volume).
- **Mic Timeout** – sets the timeout for the microphone.
- **Speaker Timeout** – sets the timeout for the speakers.
- **Self Test (Mic -> Spk)** – performs a self-test to ensure correct operation of the microphone and speaker.

Note: Make sure that audio is enabled when recording signals from the cameras attached to the VP-580.

To set the audio parameters:

1. Use the **Up** and **Down** arrow buttons to select a field to change.



2. Use the **Right** arrow button to increase the value and the **Left**

arrow button to decrease the value.

3. Press the **OK** button to confirm.
4. Use the **Up** and **Down** arrow buttons to select the **Self Test (Mic -> Spk)** option.
5. Press the **Right** arrow button to set the option to **on** to make sure that the microphone and speaker are working correctly.

3.3.10 Serial ports

The VP-580 can be connected to other serial devices such as external modems, GPIO (General Purpose Inputs and Outputs), Voice Call devices, PTZ cameras, camera control devices, text input devices, or USB serial ports, using 4 serial ports – **COM1,2,3** and **COM4**. The RS232 standard is used Com1and Com2 ports. The RS485 standard is used for com3.The RS422 standard is used for com4.

Use the **Serial Ports** menu to set the following parameters:

- **COM1 Device** – selects the type the serial device. You can select external modems, GPIO, voice call modems, etc.
- **COM1 Speed** – sets the speed (1200 to 115200 bps) for the serial device.
- **COM1 Flow Control** – enables or disables the flow control for the device.
- **COM1 Data Bits** – Sets the number of data bits (6, 7, or 8) for the device.
- **COM1 Parity** – Sets odd or even parity.
- **COM1 Stop Bits** – Sets 1 or 2 stop bits for the device.

To change the serial port parameters:

1. Use the **Up** and **Down** buttons to select the field to change.
2. Use the **Left** and **Right** arrow buttons to cycle through the available options for that field.
3. Press the **OK** button when the field is set correctly.

Note:

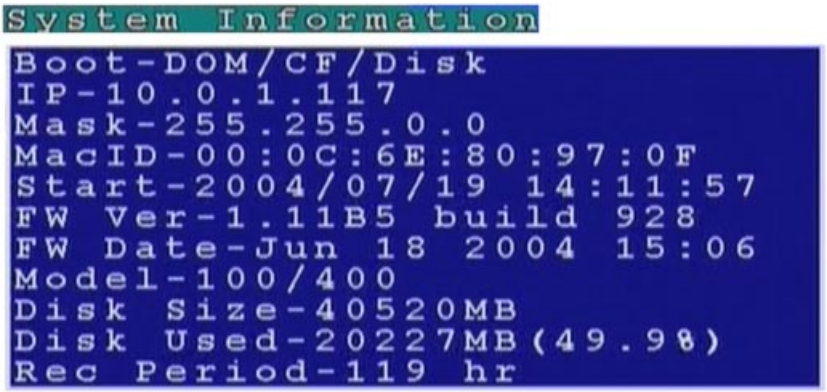
- You can use the **Prev Page** and **Next Page**

buttons on the remote control to toggle between the **COM1** menu and **COM4** menu.

- When an optional GPIO module is connected to the serial port, the VP- 580 detects it automatically and provides GPIO options in the system menu. (See **GPIO** on page 57 for more information.)

3.3.11 System information

Use the **System Information** option to display the System Information screen and view information about the boot disk, TCP/IP parameters, the MAC ID of the device, firmware version and date of installation, model number, and hard disk properties.



3.3.12 Date/Time

Use the **Date/Time** option to set the year, month, day, hour, minute, second, and time zone in which the VP- 580 is installed.

To set the time or time zone:

1. Use the **Up** and **Down** arrow buttons to select the field to change.

2. Use the **Left** arrow to decrease the value and the **Right** arrow to increase the value for that field.
3. Press the **OK** button when the values are set correctly.

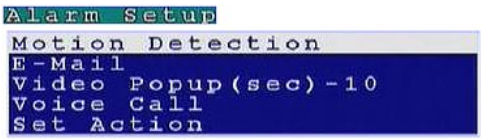
Note: TheVP- 580 reboots to save the changes, if you modify the time zone.

3.3.13 Alarm

Use the **Alarm** menu to define what constitutes an alarm condition and how the VP- 580 reacts when such a condition occurs. You can configure an alarm condition to be generated when motion is detected by the camera, if the video signal is lost from a camera, if the disk space is too low, if VP580 case was opened ,or if there is a disk error. Once the alarm is generated, you can set the alarm notification through a beep, a message, a video popup, voice call, or E-mail.

The Alarm menu has the following submenus:

- **Motion Detection** – enables you to configure the motion detection parameters for each camera.
- **E-Mail** – enables you to set up an E-mail address and verify it is working correctly.
- **Video Popup (sec)** – sets the time for which a camera is displayed on your monitor when an alarm is generated.
- **Voice Call** – enables you to set conditions that generate a voice call when an alarm is triggered.
- **Set Action** – sets the action that will generate an alarm condition for each camera.



Note: The **Voice Call** option will only be displayed in

the menu if the voice modem function is selected from the serial port menu.

To set motion detection conditions:

1. Use the **Up** and **Down** arrow buttons to select the **Motion Detection** option from the **Alarm** menu and press the **OK** button.
2. When the motion detection menu appears, use the **Up** and **Down** Arrow buttons to select one of the following options:
   - **Enable** – configures the motion detection feature for each camera.
   - **Sensitivity** – sets the sensitivity value for detecting motion.
   - **Set Detect Area** – sets the area in the camera's field of vision over which motion is detected. This option is displayed only after you set the **Enable** option to **Yes**.

3. Select the **Enable** field and use the **Left** and **Right** arrow buttons to toggle between **Yes**, to enable the motion detection feature, and **No**, to disable it.
4. Select the **Sensitivity** choice and use the **Left/Right** arrow buttons to decrease/increase the sensitivity. We recommend that you keep the sensitivity level to its default setting. If the sensitivity level is adequate, an orange square is displayed in the upper left-hand corner of the screen when motion is detected.
5. Select the **Set Detect Area** option and press the **Right** arrow button to configure the area as follows:
   i The highlighted area in red is the area monitored by motion detection. Use the **Arrow** buttons to move the cursor.
   ii Press the **OK** button to cut off any areas where you want to

disable motion detection. If you want motion detection enabled in the entire field of vision of the camera, leave the screen completely red.

iii Press the **Cancel** button to return to the previous menu when done.

6. Select the **Save** option and press the **OK** button to save all your changes.
7. Use the **Prev Page** and **Next Page** buttons to move to the motion detection menus for all connected cameras.
8. Press the **OK** button when settings are correct.

You need to provide E-mail details if you want an E-mail to be sent when an alarm occurs.

To enter E-mail details:

1. Select the **E-Mail** option from the **Alarm** menu.
2. Press the **Right** button to confirm. The E-Mail submenu is displayed.

3. In the **E-Mail** menu, use the **Up** and **Down** buttons to select a field from the following:
   - **Addr** – Type the name of your mail server. See your network administrator for details about the address of your mail server.
   - **Name** – Type your user name.
   - **Pass** – Type your password.
   - **Sender** – Type the e-mail address of the sender.
   - **Test** – Checks the validity of the provided E-mail address by sending an E-mail.
4. Press the **Right** arrow button to confirm your selection.
5. Press the **Key Pad** button on the remote control to display the on-screen keyboard.

6. Use the **Arrow** keys to select the letters you need to complete the field and press the **OK** button to confirm.
7. When the field is complete, press the **Key Pad** button to turn off the on-screen keyboard.
8. Press the **OK** button to save your changes.

Use the **Video Popup** menu to set up the time period for which the video from the selected camera is displayed on your screen. The default screen is 10 seconds.

To set the video popup time:

1. Use the **Up** and **Down** arrow buttons to select the **Video Popup** option from the Alarm menu.
2. Use the **Left** arrow button to decrease the popup time and the **Right** arrow button to increase the time
3. Press the **OK** button to save your settings.

The Voice Call options enable you to set up a voice modem that will make a call when the selected event (such as a GPI or motion alarm, or video lost from a camera) occurs.

You must install a voice/fax modem on one of VP- 580 COM ports, configure the COM port as a "Voice Call" device, and make its protocol the same as that of the voice/fax modem for the voice call function to work.

Voice call features:

- A voice call message can be recorded using an internal or external microphone, and can be played back using an internal or external speaker.
- Up to 60 voice messages can be recorded and stored on the VP-580 and used for different alarm events.
- Messages recorded for the voice call function must be between 5 and 10 seconds.

To set the Voice call function:

1. Use the **Up** and **Down** arrow buttons to select the **Voice Call** option from the Alarm menu.
2. Use the **Up** and **Down** arrow buttons to highlight the **Redial** option.
3. Use the **Left** and **Right** arrow buttons to set the number of Redial attempts (0-9).

4. Use the **Up** and **Down** arrow buttons to highlight the **Voice Repeat** option.
5. Use the **Left** and **Right** arrow buttons to set the number of times the message is repeated (0-9)
6. Use the **Up** and **Down** arrow buttons to highlight the **Time for Rec.** option.
7. Use the **Left** and **Right** arrow buttons to set the duration of the recording (5-10 seconds)
8. Use the **Up** and **Down** arrow buttons to highlight the **Modem Speaker** option.
9. Use the **Left** and **Right** arrow buttons to select either **Internal** or **External** speaker.
10. Use the **Up** and **Down** arrow buttons to highlight the **Voice File** option.
11. Use the **Left** and **Right** arrow buttons to select a voice file to use.
12. Use the **Up** and **Down** arrow buttons to highlight the **Rename** option.
13. Press the **OK** button to rename the current file to the file named in the **Voice File** field.
14. Use the **Up** and **Down** arrow buttons to highlight the **Record** option.
15. Press the **OK** button to make a recording.

Known issues with the voice call function

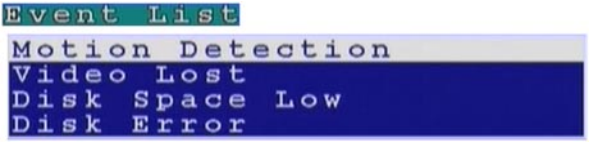
- There will be three seconds silence between a voice call being answered and the start of the message.
- If the voice call function calls a phone with an automatic answering machine, the VP- 580 will behave as if the call has been answered.
- The VP- 580 does not support non-standard ringing tones. If the VP- 580 calls a phone and an unexpected tone is received, an error message will be generated.

Use the **Set Action** option to define what action is taken by the VP- 580 when an event occurs. The following options are available:

- **Motion Detection** – sets up the motion detection feature.
- **Video Lost** – generates an alarm when the video from the se-

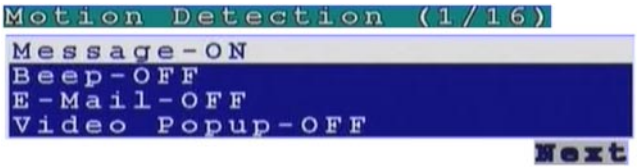
lected camera is not available.

- **Disk Space Low** – generates an alarm when the disk space is insufficient.
- **Disk Error** – generates an alarm if there is an error while accessing the disk.

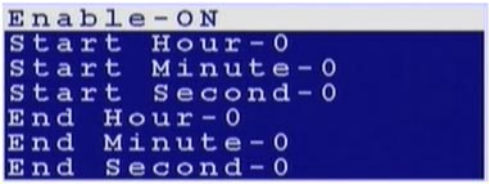


To configure events using the Set Action option:

1. Use the **Up** and **Down** arrow buttons to select an event from the list.
2. Press the **Right** arrow button to display the submenu for the event with the following options:
   - **Message** – displays a message on your screen when the event occurs.
   - **Beep** – sounds a beep when the event occurs.
   - **E-Mail** – sends an E-mail to the specified address when the event occurs.
   - **Voice Call** – sends a voice call to a specified number when an event occurs.
   - **Video Popup** – displays the video from the selected camera on your screen.



3. Use the **Up** and **Down** buttons to select the desired action from the following options:
4. Press the **Right** arrow button for the required action to view the submenu.



5. After enabling the action, set up the **Start** and **End Hour, Minute,** and **Second** to make the feature active during the specified time interval of the day. The default settings have the feature enabled throughout the whole day.
6. If you selected the **E-Mail** option as the desired action, you have to set up the recipient of the E-mail, the subject and the text matter of the E-mail. You can specify which of the 18cameras' status is in the E-mail.

3.3.14 ISP

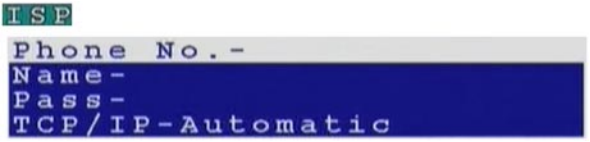
If you are connecting to the Internet using dial-up, enter your ISP details using the **ISP** option from the **System Setup** menu. Set up the following options:

- **Phone No.** – enter the telephone number that is dialed by the dial-up modem.
- **Name** – enter the user name of your dial-up account.
- **Pass** – enter the password for your dial-up account.
- **TCP/IP** – set up automatic or manual TCP/IP. If the VP- 580 is connecting through a DHCP server, an IP address is assigned to it automatically. If you want to set the IP address of the device

manually, select the **Manual** option.

To enter ISP details:

1. Use the Up and Down arrow buttons to select a field to change.



2. Press the **Right** arrow button to confirm.
3. Press the **Key Pad** button on the remote control to display the on-screen keyboard.
4. Use the **Arrow** buttons to select letters and numbers from the on-screen keyboard and use the **OK** button to confirm.
5. When the field is correct, press the **Key Pad** button to turn off the on-screen keyboard
6. Press the **OK** button to confirm the new field.

3.3.15 Registry server

The **Registry Server** menu enables you to set up the registry server for your device. If you are using a dynamic IP address for the VP- 580, you can set up the device to post its IP address to the VPON registry server. You can then look up your IP from the MAC address or server name. You can also use the registry server to give a name to the VP- 580 as described in **Set names and on-screen display**.

To enter Registry Server details:

1. Use the Up and Down arrow buttons to select a field to change.

2. Press the **Right** arrow button to confirm.

3. Press the **Key Pad** button on the remote control to display the on-screen keyboard.
4. Use the **Arrow** buttons to select letters and numbers from the on-screen keyboard and use the **OK** button to confirm.
5. When the field is correct, press the **Key Pad** button to turn off the on-screen keyboard.
6. Press the **OK** button to confirm the new field.

3.3.16 Running mode

See page5 for information on how to change the **Running Mode**.

3.3.17 Algorithm

You can change the compression algorithm used by the VP- 580 to record video. The VP- 580 supports JPEG, MJPEG, and H.263 algorithms for compression. For the JPEG and MJPEG algorithms, the video quality is better but the data rate is also high. The H.263 algorithm provides a lower video quality but the data rate is also quite low.

Set up the compression algorithm using the **Algorithm** option and the size of the video frame with the **Dimension** option.

To set up the algorithm:

1. Use the **Up** and **Down** arrow buttons to select a field to change from the **Algorithm** menu.

2. Use the **Right** and **Left** arrow buttons to toggle the available options.
3. Press the **OK** button when the fields are set correctly.

3.3.18 NTP setup

Use the **NTP** (Network Time Protocol) **Setup** function to synchronize the real-time clock on the VP- 580 with the atomic clock. Before using this

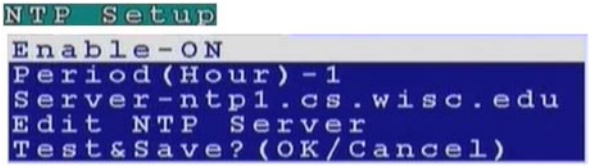
feature, make sure that the correct date, time and time zone have been set up. (See **Date/Time** on page 26.) Also make sure that the DNS IP number has been set up under the TCP/IP settings. (See **TCP/IP** on page 21.)

The following options are available in the submenu:

- **Enable** – enables the NTP function to synchronize the real-time clock.
- **Period (Hour)** – sets up the time interval after which the time is re-synchronized.
- **Server** – selects the NTP server from several pre-defined choices.
- **Edit NTP Server** – enables you to choose your own NTP server.
- **Test&Save?** – tests the server and saves the changes.

To change NTP settings:

1. Use the **Up** and **Down** arrow buttons to select a field to change from the NTP menu.



2. Press the **Right** button to confirm.
3. Press the **Key Pad** button on the remote control to display the on-screen keyboard.
4. Use the **Arrow** buttons to select letters from the on-screen keyboard and use the **OK** button to confirm.
5. When the field is set correctly, press the **Key Pad** button on the remote control to turn off the on-screen keyboard.
6. Press the **OK** button to save changes.

3.3.19 Default settings

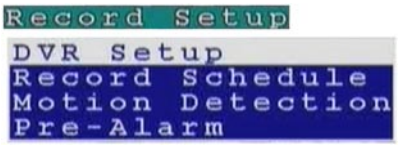
Use the **Default Settings** option to reset all configurable parameters to their factory default settings. When the **Default Settings** option is chosen from the **System Setup** menu, a message is displayed asking you to confirm. Press the **OK** button to confirm, or the **Cancel** button to cancel the operation.

3.3.20 Revise firmware

Use the **Revise Firmware** option to upgrade the firmware in the VP- 580. The firmware can be revised through an external read-write CD drive, a USB flash drive, or a USB thumb drive. Connect the device to the VP- 580 and then use this option.

3.4 Record setup

Use the **Record Setup** menu to set all the record options for the VP- 580. There are four **Record Setup** submenus – **DVR**, **Record Schedule**, **Motion Detection**, and **Pre-Alarm**. This section covers each submenu in turn.



3.4.1 DVR

Use the **DVR** menu to set the DVR (Digital Video Recorder) mode. Choose **Cyclic Recording** to keep recording on the hard disk continuously. Choose **Auto Stop** to stop recording when the disk is full.

You can set an alarm to be generated when the hard disk is full and send notification through a beep, E-mail, or text message. See **Alarm** on page 27.

To change the DVR mode:

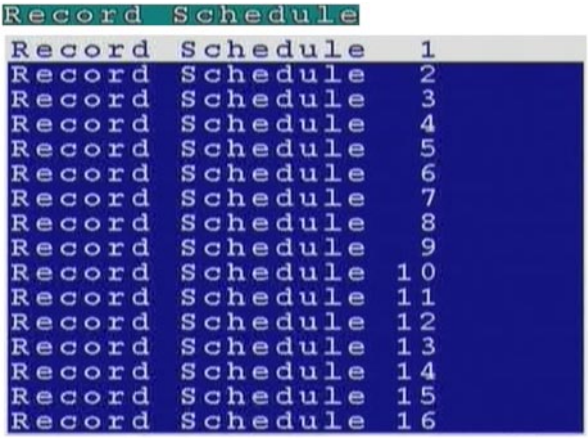
1. Select the **Mode** option from the **DVR** submenu using the **Up** and **Down** arrow buttons on the remote control.
2. Use the Left and Right buttons to select either **Cyclic Recording**, or **Auto Stop**.
3. Press the **OK** button to save changes.

3.4.2 Record schedule

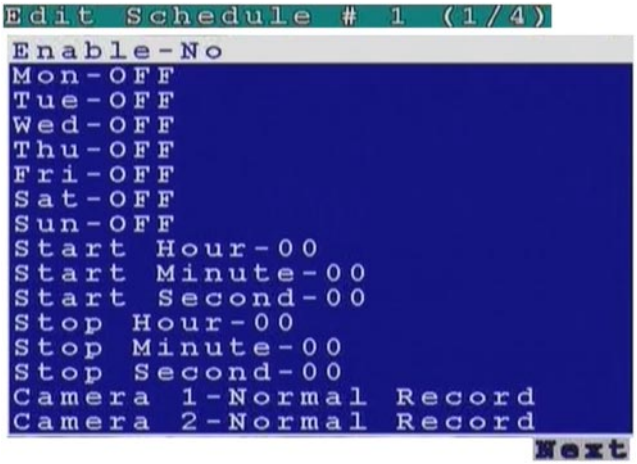
You can set up to 16 record schedules that automatically record at given times and days.

To configure a record schedule:

1. From the **Record Schedule** menu, pick a schedule to change from the displayed list, using the **Up** and **Down** arrow buttons.



2. Press the **Right** button to display the parameters for that schedule.



3. Use the **Up** and **Down** arrow buttons to select a field to change, from the following options:
   - **Enable** – enables the recording schedule.
   - **Mon** through **Sun** – enables recording on the specified days of week.
   - **Start Hour/Minute/Second** – sets the exact time when the recording starts.
   - **Stop Hour/Minute/Second** – sets the exact time when the

recording ends.

- **Camera 1 through 8** – sets the recording mode for the selected camera. Select **Normal Record** to record continuously. Select **Motion Detect** to record only when motion is detected. Select **OFF** to disable recording.
- **Audio** – enables recording of sound along with the video signal.
- **Frame Rate Setup** – sets the frame rate for recording. Set **Auto Speed** to **Yes** and the device evenly divides the recording frame rate amongst all cameras. If set to **No**, you can manually set up the individual frame rates for each camera.

4. Use the **Right** and **Left** arrow buttons to change the value of that parameter.
5. Use the **Prev Page** and **Next Page** buttons to move to the previous or next page.
6. Press the **OK** button when all parameters are set.

3.4.3 Motion detection

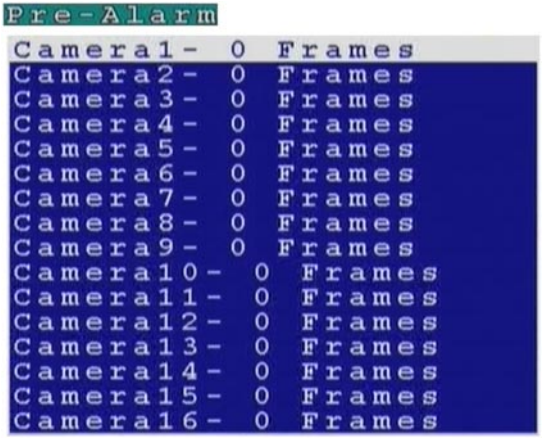
For more information about setting the Motion Detection feature, see on **Alarm** page 27.

3.4.4 Pre-Alarm

Use the **Pre-Alarm** function to determine how many frames are recorded before an alarm event occurs. Each camera can be set separately and you can record up to 300 frames.

To set the Pre-Alarm frame capture:

1. Use the **Up** and **Down** arrow buttons to select **Pre-Alarm** option from the **Record Setup** menu.
2. Press the **OK** button to display the Pre-Alarm menu.



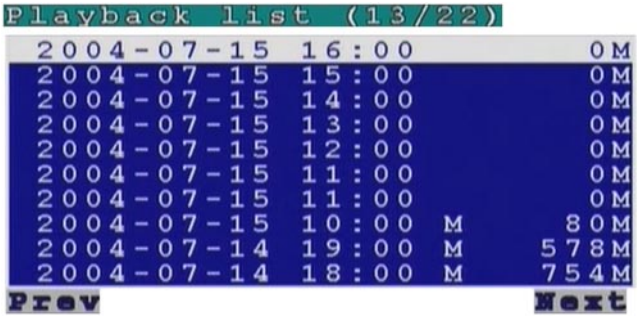
3. Use the **Up** and **Down** arrow buttons to select the camera to change from the list.
4. Press the **Right** arrow button to confirm.
5. Use the number buttons on the remote control to enter a new value.
6. Press the **OK** button when the value is set correctly.

3.5 Playback

Use the **Playback** function to display a list of all recordings stored on the VP- 580. Use the **Up** and **Down** arrow buttons to select a recording to play back and press the **OK** button to confirm. The chosen track is played. Use the **Prev Page** and **Next Page** buttons on the remote control to move between pages.

Playback list

Use the **Playback list** function to display a list of all recordings stored on the VP- 580 as follows.



1. Use the **Up** and **Down** arrow buttons to select a recording to play back. The alarm condition which caused the file to be recorded is indicated in the list. For instance, in the screen shot shown here, the letter **M** next to a file indicates that the file was recorded after motion was detected by the camera. "**A**" indicates that the file was recorded after a GPIO event. An asterisk (*) before the date indicates that the file is locked.
2. Press the **OK** button to confirm. The chosen recording is played back.
3. Press the **Display** button on the remote control to display various properties of the recorded file. The date and time of recording are displayed in the upper right corner.
   - **Progress** – A one hour time line is displayed at the bottom of the screen with the moving orange line indicating the status of playback.

   - **Recorded Data** – The aqua colored line represents how much of the one hour time interval was recorded. A full blue line means

that the whole hour interval was recorded.

- **GPI** – The screen shows where alarm triggers were generated. The red bar shows the triggers. To move to the next motion detection or alarm trigger event, press the **Right/Left** arrow buttons.

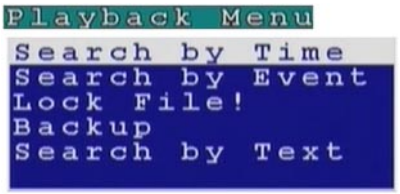
- **Motion Detection** – The yellow bars represent where motion detection was set of

Searching for a file

The VP- 580 playback list can be searched for a specific file. You can conduct the search based on time, event, or text.

To search for a recorded file:

1. While viewing the play list , press the **Menu** button to display the menu.

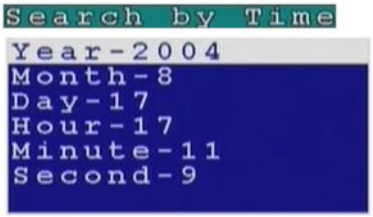


2. Select one of the following options using the **Up** or **Down** arrow buttons:

- **Search by Time** – searches the list of recorded files for the specified recording time.
- **Search by Event** – searches the list of recorded files for the specified event such as a motion or a GPIO trigger that occurred within the specified time interval.

Search by Text – searches the list of files recorded with POS information for specified text that was recorded within the specified time interval.

3. Press the **Right** arrow button to view the submenu for the selected option.



4. Select each of the options such as **Year**, **Month**, **Day**, and so on using the **Up** or **Down** arrows.
5. Modify the settings as required using the **Left** and **Right** arrow buttons.

   Note: If you select the **Search by Event** option, choose an event from **GPI 1~8** and **Motion 1~8**. If you choose the **Select by Text** option, enter the text using the **Key Pad** button.

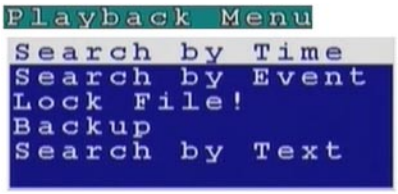
6. Press **OK** when done to conduct the search.

3.5.3 Locking files

To prevent accidental deletion of recorded files, you can lock a file. This also prevents over-writing of the file when the recording mode is set to **Cyclic**. (See **DVR** on page 37.)

To lock a file:

1. While viewing the play list (see P**layback list** on page 40), use the **Up/Down** arrow buttons to select the desired file.
2. Press the **Menu** button to display the menu.



3. Select the **Lock File!** option using the **Up** or **Down** arrow buttons:
4. Press the **OK** button to confirm.

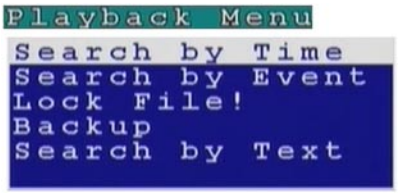
The file is locked and cannot be deleted or over-written. The locked file is represented by an asterisk (*****) next to it. To unlock a file, follow the same procedure and select the **Unlock File!** option from the menu.

3.5.4 Backing up the data

If the VP- 580 is equipped with CD/RW, DVD+RW drive, you can back up your recorded files to a CD, DVD, or USB hard drive.

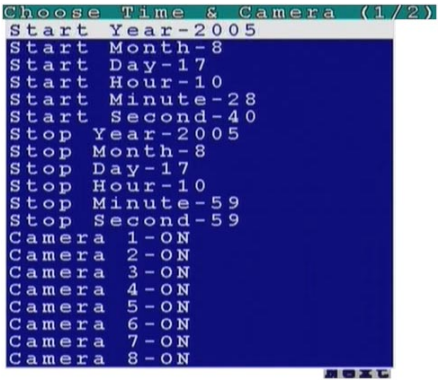
To back up your data:

1. While viewing the play list , press the **Menu** button to display the menu.



2. Select the **Backup** option using the **Up** or **Down** arrow buttons.
3. Press the **OK** button to confirm.

The VP- 580 detects if there is a backup device connected to it and starts backing up data.



Note: The VP- 580 will begin to collect data as soon as the above screens are displayed. When the required data has been collected, the backup can begin.

3.6 System Shutdown

Use the **System Shutdown** option to shut down or reboot the system. To shut down or reboot the system:

1. Use the **Up** and **Down** arrow buttons to select either **Shutdown** or **Reboot**.

2. Press the **OK** button to confirm.
3. Press the **OK** button to confirm the operation again, or press the **Cancel** button to cancel the operation.

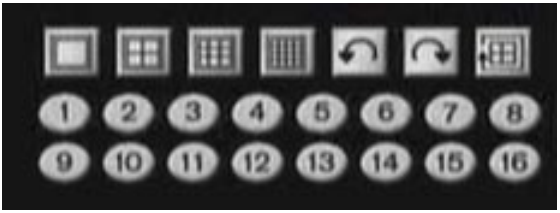
4. The Local GUI

4.1 Introduction

The VP-5804/5808 can be used and configured using either the supplied remote control unit or with a keyboard and mouse. This chapter covers keyboard and mouse operation. The VP-5804/5808 must be in **Mouse** running mode for the keyboard and mouse to function. See **Running modes** on page 5 to learn how to switch to **Mouse** control.

4.2 Surveillance screen panel

The **Surveillance Screen Panel** enables you to define which live images are displayed on screen.



For more information on using the buttons in the **Surveillance Panel**, see **Viewing live images on the VP-5804/5808** on page 9.

4.3 PLAY button

Click the **PLAY** button to display a list of all the recordings stored on the VP-5804/5808.

The alarm condition which caused the file to be recorded is indicated in the list. For instance, in the screen shot shown here, the letter **M** next to a file indicates that the file was recorded after motion was detected by the camera. Pick a recording from the displayed list and click **OK** to play. The recording will play on screen. Click the **LIVE** button to return to live images from the connected cameras.

4.4 LIVE button

Click the **LIVE** button to display live images on screen from the cameras connected to the VP-5804/5808.

Click the left mouse button twice to switch to full screen display.

4.5 I/O button

Click the **I/O** button to display the I/O panel.

When an alarm has been triggered, the GPI and GPO that are connected will show the status of the input or output device. GPI devices will show **NC** (normally closed) or **NO** (normally open) as the status of the switch while GPO devices will show **On** or **Off** as their status.

4.6 GO TO button

Click the **GO TO** button to search for stored files by **Time**, **Event**, or **Text**.

4.7 STATUS button

Use the **STATUS** button to display the status panel.

The status panel displays the playback status of the current recording. The aqua line (**Data**) indicates recorded data over a one hour time interval. The yellow bars (**Motion**) indicate the instances when motion was detected. The (**GPI**) indicate when a GPI event was detected. The moving orange line indicates the current playback status. Click anywhere on the **Data**, **Motion**, or **GPI** lines to start playback from the required point.

4.8 VIDEO

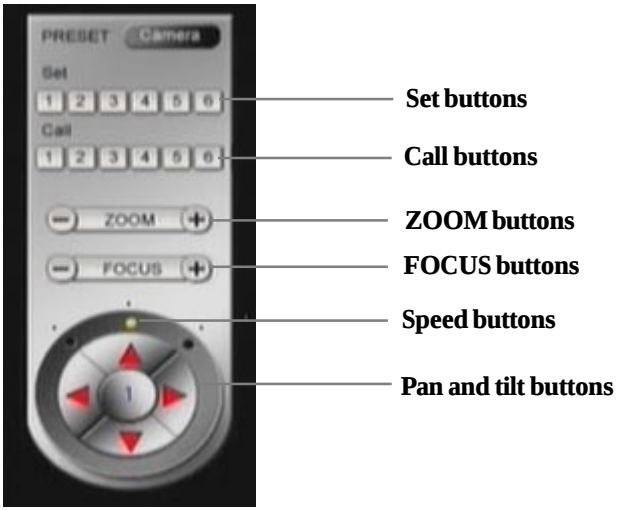
Use the **VIDEO** button to display the video panel.

Use the sliders in the video panel to adjust the following parameters:

- Brightness (**A**)
- Contrast (**B**)
- Saturation (**C**)
- Hue (**D**)
- Quality (**E**)

4.9 PTZ panel

Use the PTZ panel to control PTZ (Pan, Tilt, Zoom) enabled cameras. This panel is displayed when the **LIVE** button is pressed.



The PTZ panel can only be used in the **Surveillance Screen**. You can set and recall up to 6 preset configurations for each camera using the following buttons:

- **Set buttons–** save the current pan, tilt, zoom, and focus settings in one of 6 preset configurations.
- **Call buttons–** recall the selected preset configuration.
- **ZOOM buttons** – adjust the zoom to provide a more closer or wider view of the subject.
- **FOCUS buttons** – adjust the focus of the camera.
- **Speed buttons** – Adjust the speed of the selected ptz camera.
- **Pan and tilt buttons** – Adjust the pan and tilt of the selected camera.

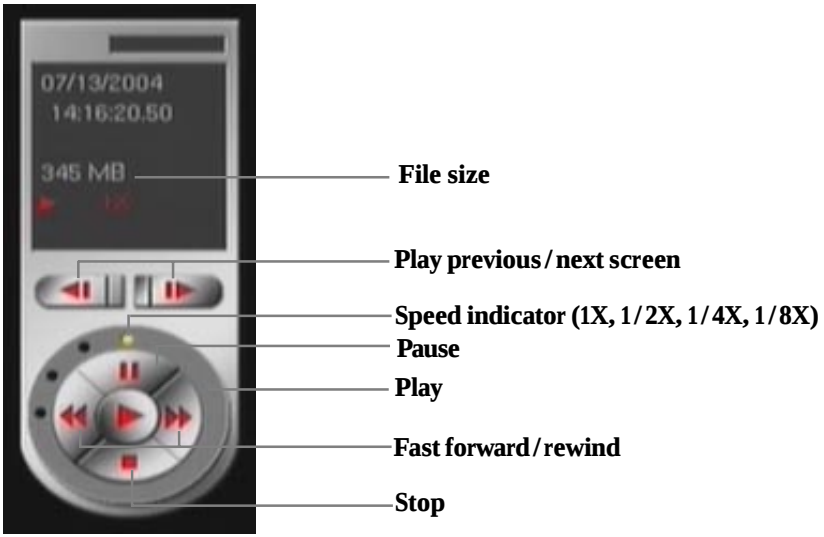
To set a camera configuration:

1. Select a camera using the numbered buttons (1~8) on the **Surveillance Panel**.
2. Adjust the **Zoom**, **Focus**, **Speed**, **Pan** and **Tilt** buttons until the camera is configured correctly.
3. Press a **Set** button to save the configuration.

The configuration you have saved can now be recalled with the corresponding **Call** button.

4.10 Play panel

Use the Play Panel to control playback of stored footage from the cameras. This panel is displayed when the **PLAY** buttons is pressed to play back a video recording.

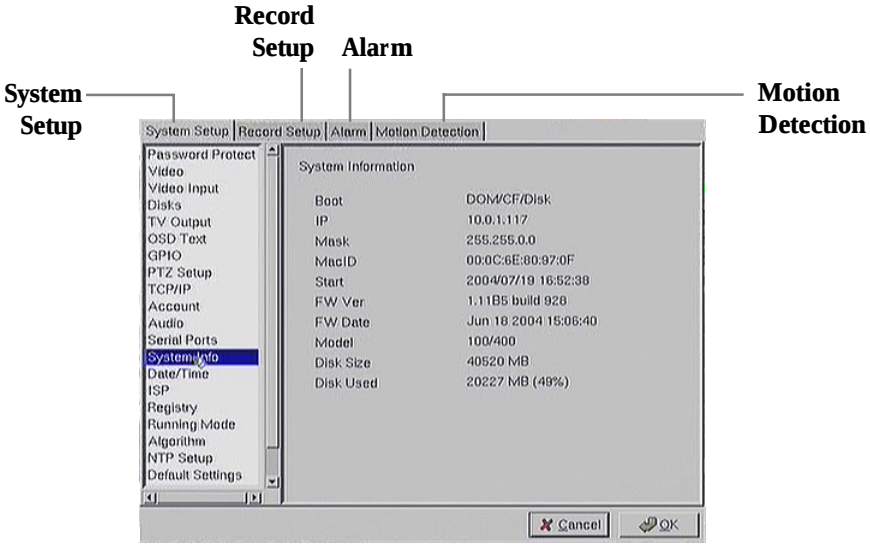


The status of recorded data is displayed at the bottom of the screen.

The moving orange line indicates the current playback status. Click anywhere on the **Data**, **Motion**, or **GPI** lines to start playback from the required point.

4.11 Setup

Click the **Set Up** button to display the set up menus used to configure the VP- 5804/5808. There are four parts to the Set Up menu – **System Setup**, **Record Setup**, **Alarm**, and **Motion Detection**.

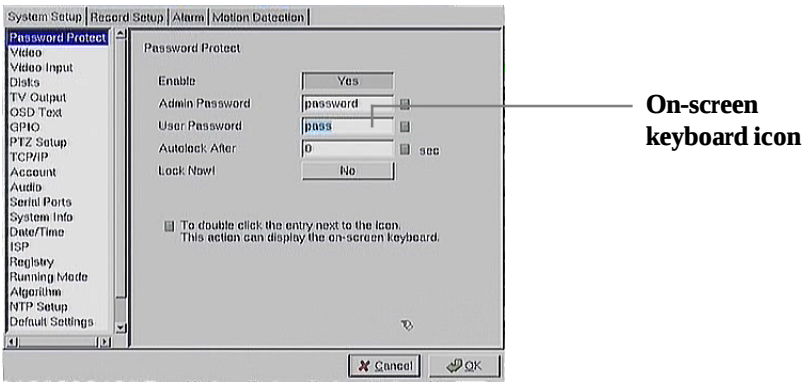


This section explains each of the menu pages in turn.

4.11.1 System setup

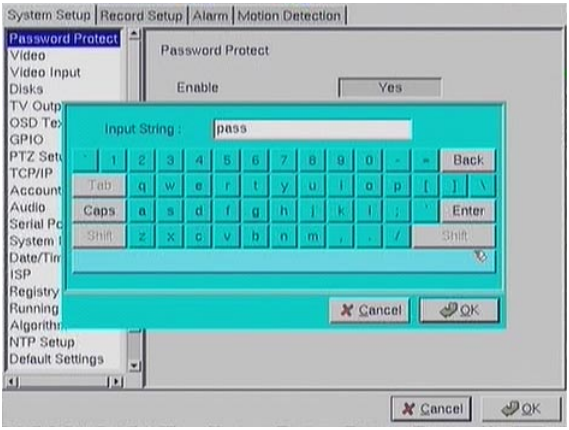
Password protect

The **Password Protect** screen helps you to enable password protection, set administrator and user passwords, set the autolock period and lock the system immediately. Enabling password protection prevents unwanted users from accessing or configuring the VP- 5804/5808. For more information, see **Passeord protect** on page 13.



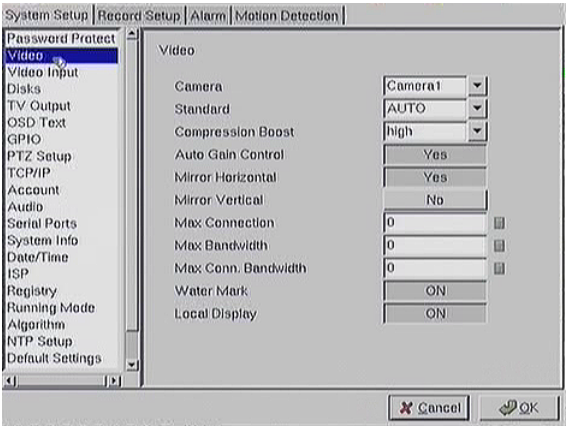
Enter new passwords for **Admin** and **User** in the corresponding fields. Set an autolock time if required in the **Autolock After** field. The autolock function locks the system after a given time and a password is required to unlock it. Click **Lock Now!** to lock the system immediately.

Note: If you do not have a keyboard connected to the system, you can use the on-screen keyboard to enter your passwords. All the fields that can be edited using the on-screen keyboard are indicated by the on-screen keyboard icon. Double-click the field to display the on-screen keyboard. Use the mouse to enter characters for the required field.



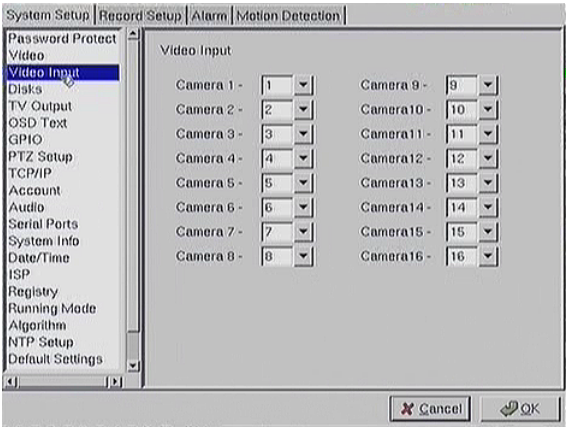
Video

The **Video** menu enables you to set video parameters such as the video standard, the compression boost, and so on for each of the connected cameras. Refer to **Video** on page 15 for more information about the video parameters. Select the camera from the **Camera** drop-down box and fill in the details in each field as required using the mouse (recommended) or keyboard.



Video input

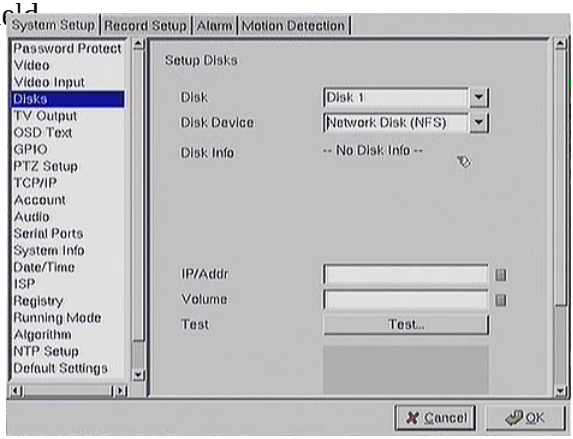
Use the **Video Input** menu to assign a number to each camera connected to the VP- 5804/5808. Usually you will want to call the camera connected to port 1, “Camera 1” but you could assign it any number between 1 and 8.



Use the mouse or keyboard to set each camera number.

Disks

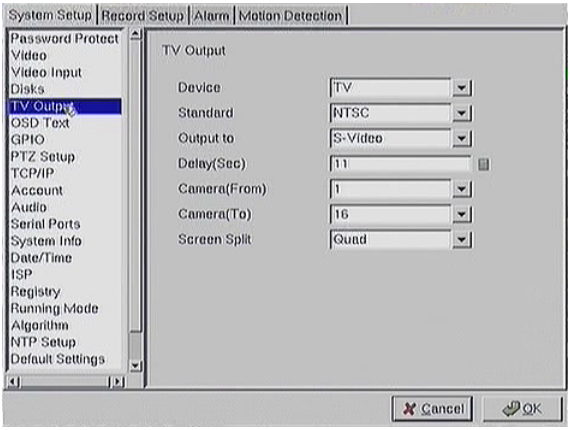
Use the **Disks** menu to configure network disks that the VP-5804/5808 uses to record data. If no disk is connected, **(No Device)** appears in the **Disk Device** field.



Use the keyboard or mouse to enter the **IP address** and **Volume** of any connected network disk. Click on the **Test** button to test if the drive is working correctly.

TV output

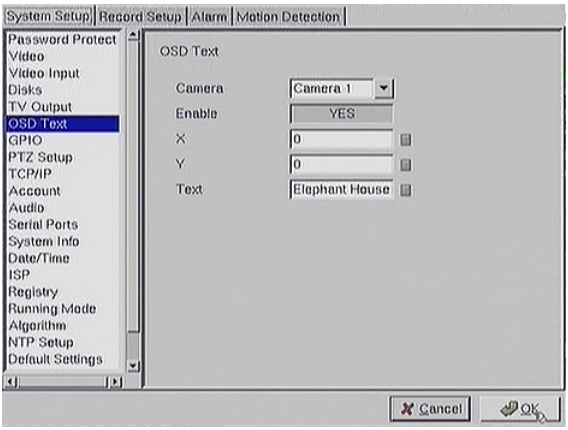
Use the **TV Output** menu to configure the video output for the VP-5804/5808. The VP-5804/5808 can support standard VGA computer monitors or TV type screens. Set the device type, standard, outputs and other parameters. Set the **Camera (From)** and **Camera (To)** options to specify the range of cameras that are displayed in the cyclic display mode. Refer to **TV output** on page 18 for more details about the various menu options.



Use the keyboard or mouse (recommended) to set each field. Ensure each field is set correctly before clicking **OK**. If parameters are set incorrectly it could result in the display becoming unreadable and very difficult to correct.

OSD text

Use the **OSD Text** menu to assign text for each of the connected cameras. For instance, you may like to have text saying "Warehouse" on the image from a camera installed in the warehouse.



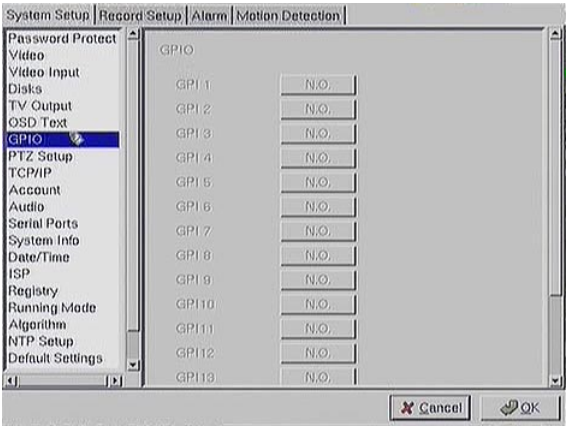
To display the OSD text:

1. Select the desired camera from the **Camera** drop-down box.
2. Click the **Enable** field to display the text.
3. Adjust the position of the text displayed on the image using the **X** and **Y** parameters. A value of X = 0 and Y= 0 would result in the text appearing at the top left corner of the camera image. Increas ing the value of Y moves the text down the screen. Increasing the value of X moves the test to the right. Enter the text to be dis played in the **Text** field.
4. Use the keyboard or mouse (recommended) to complete the fields and click **OK** to save changes.

GPIO

The GPIO (general purpose input output) menu enables you to view the status of the input and output devices such as switches, sensors, LEDs, and so on and view their status. These devices can be attached to the unit to turn external alarms (outputs) on or off when the specified input changes. When an alarm has been triggered, the **GPI** and **GPO** that are connected will show the status of the input or output device. GPI devices will show **NC** (normally closed) or**NO** (normally open) as the status of the switch.

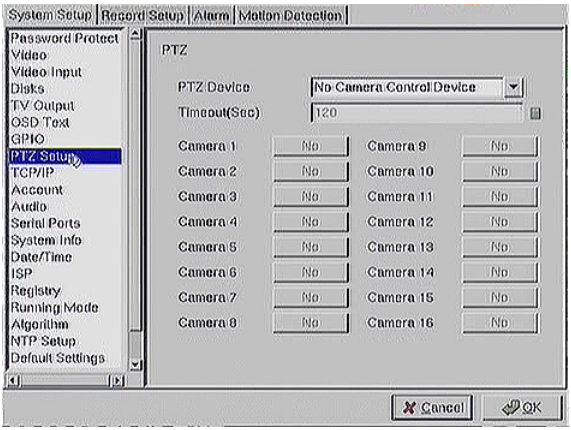
Depending on the input, you can change the status of the GPO devices to **On** or **Off** as required.



Change the GPO status as needed. Make sure that the devices are working by checking the actual physical status of the inputs and outputs after making changes in this menu.

PTZ setup

Use the **PTZ** (Pan, Tilt, Zoom) **Setup** menu to set the type of PTZ cameras connected to your VP- 5804/5808. Refer to **PTZ setup** on page 20 for more information about PTZ camera setup.

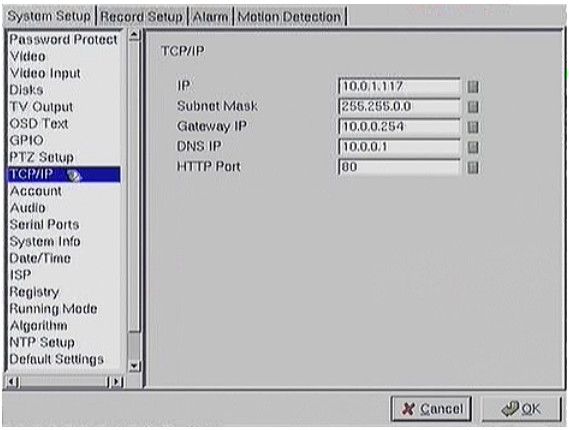


Select the type of PTZ cameras used and set each camera that has one connected to **Yes**. The timeout value represents the time given to the cameras to respond to a command.

Use the keyboard or mouse (recommended) to complete each field and click **OK** to save changes.

TCP/IP

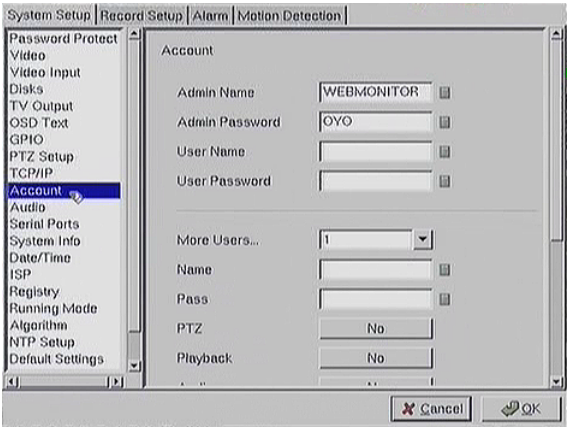
Use the **TCP/IP** menu to enter TCP/IP address details for the VP-5804/5808. See **TCP/IP** on page 21 for more details.



Use the keyboard or mouse (recommended) to complete each field and click **OK** to save changes.

Account

Use the **Account** menu to set up an administrator name and password as well as the super user name and passwords. You can also use this menu to set up to 256 additional users, their passwords and their permissions on the system. Select the user number and assign a **Name** and **password** to it. Click the **PTZ**, **Playback**, and **Audio** fields to enable access to these properties for the selected user. Select the cameras that you want the user to have access to and set them to **Yes**.

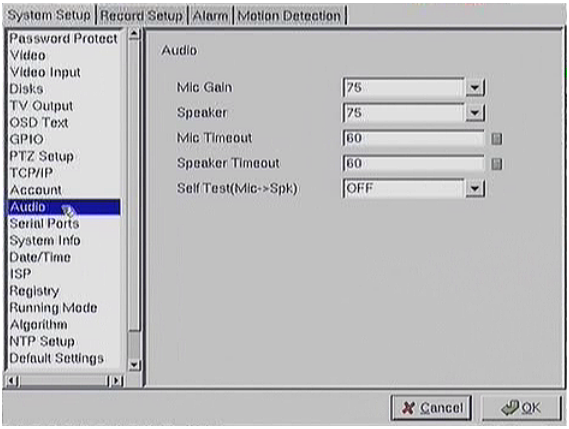


Note: It is important that you set up the super user name and password. The super user is different from the administrator and has access to only the video. Use the More Users field to change the authorities of Internet users.

Use the keyboard or mouse (recommended) to complete all the fields and click **OK** to save changes.

Audio

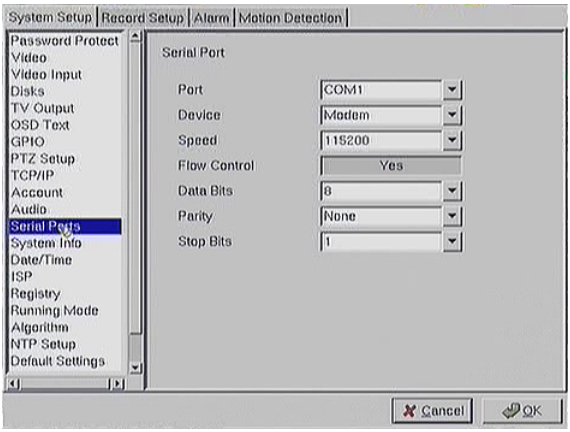
Use the Audio menu to set parameters such as **Mic Gain**, **Speaker**, **Mic Timeout**, and **Speaker Timeout**. You can also perform a self test to test if the microphone and speaker are working correctly. Refer to **Audio** on page 24 for more information.



Use the keyboard or mouse (recommended) to set the audio properties. Click **OK** to save changes.

Serial ports

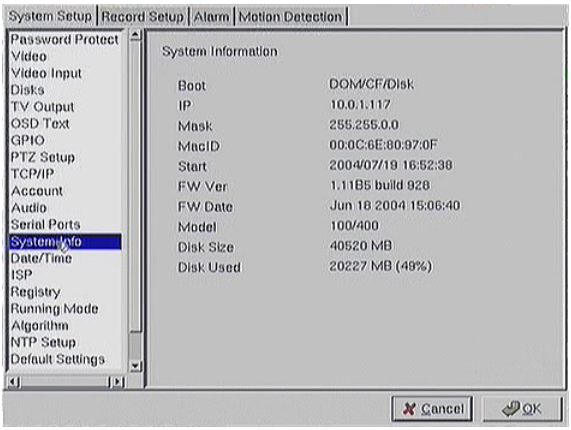
The RS232 serial ports (COM1,COM2,COM3 and COM4) are used to attach PTZ camera control cables, external modems, or GPIO modules to the VP- 5804/5808. Use the **Serial Port** menu to set parameters for the two serial ports. Refer to **Serial ports** on page 25 for more information about the various fields.



Use the keyboard or mouse to set all parameters and click **OK** to save changes.

System info

Use the **System Info** menu to display the system information such as disk parameters, TCP/IP properties, firmware information, and so on, on the screen.

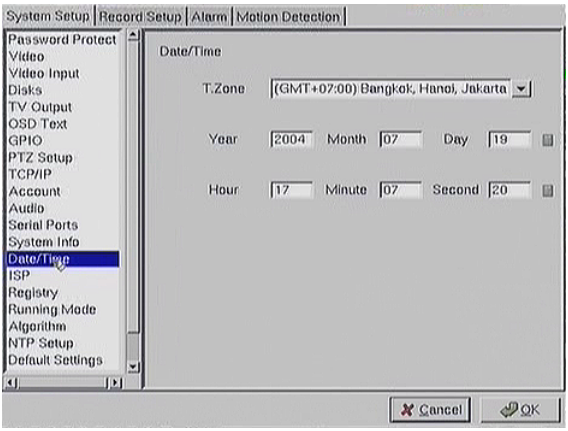


There are no configurable fields on this page. Click **OK** or **Cancel** to leave

the screen.

Date/Time

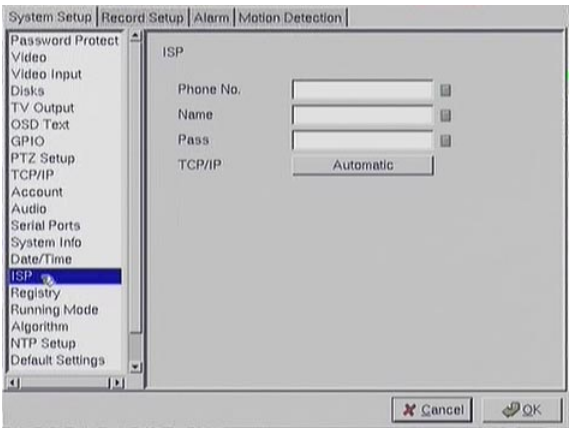
Use the **Date/Time** menu to set the precise time and date on the system. You can also set the local time zone in the **T.Zone** field.



Use the keyboard or mouse to set all fields and click **OK** to save changes.

ISP

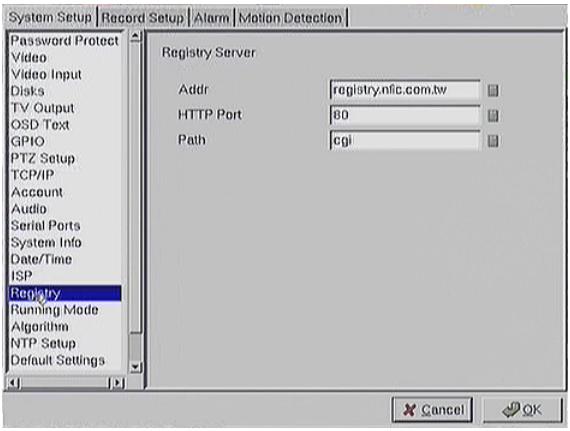
If you are using dial-up access to the Internet, use the **ISP** menu to enter details of your Internet Service Provider.



Use the keyboard or mouse (recommended) to complete all fields and click **OK** to save changes.

Registry

The **Registry** menu enables you to set up the registry server for your device. If you are using a dynamic IP address for the VP- 5804/5808, you can set up the device to post its IP address to the VPON registry server. You can then look up your IP from the MAC address or server name. You can also use the registry server to give a name to the VP-5804/5808 as described in **Set names and on-screen dis-play** on page 83.



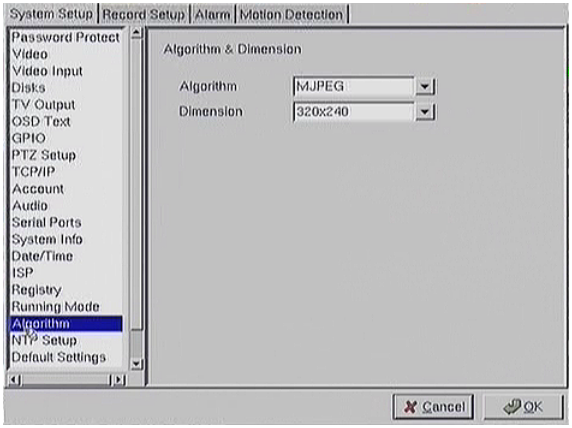
Use the keyboard or mouse (recommended) to complete all fields and click **OK** to save changes.

Running mode

Use the **Running Mode** menu to switch between **Network Mode** and **ISP Mode**, and between **Mouse Mode** and **IR Control Mode**. Refer to **Running modes** on page 5 for more details about changing the running mode.

Algorithm

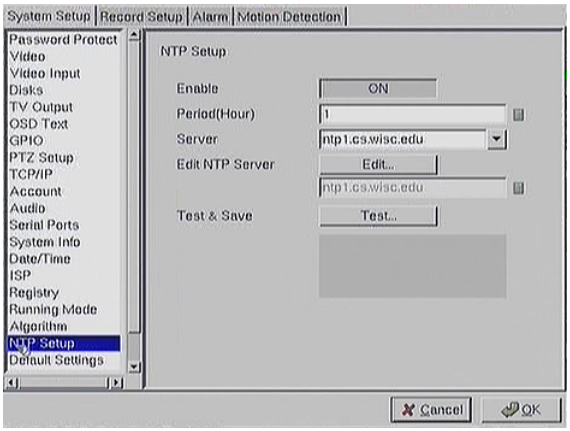
Use the **Algorithm** option in this menu to set the compression algorithm used while recording video. Use the **Dimension** option to set the resolution of the video. Refer to **Algorithm** on page 35 for more details about compression algorithms.



Use the keyboard or mouse (recommended) to complete each field and click **OK** to save changes.

NTP setup

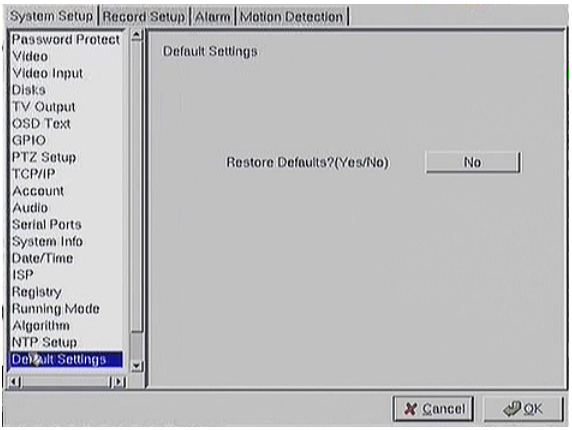
Use the **NTP Setup** menu to enter details of the Network Time Protocol (NTP) server used to synchronize the time of the device with the network.



Use the keyboard or mouse (recommended) to complete all fields. After making the changes, click on the **Test & Save** button to verify that the server is operational. Click **OK** to save changes.

Default settings

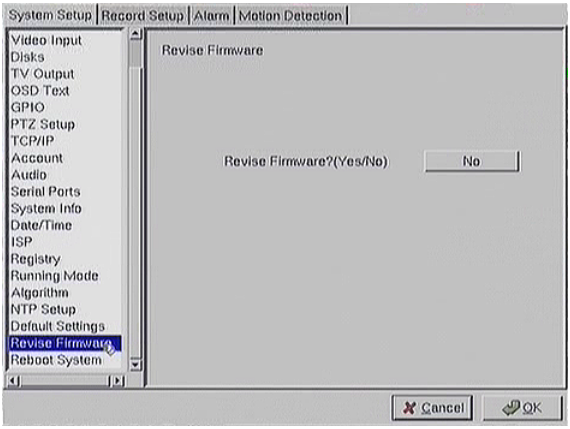
Use the **Default Settings** menu to reset all configurable parameters to their factory default settings.



Click **Restore Defaults?(Yes/No)** to restore defaults. Click **Cancel** or **No** to retain the current settings.

Revise firmware

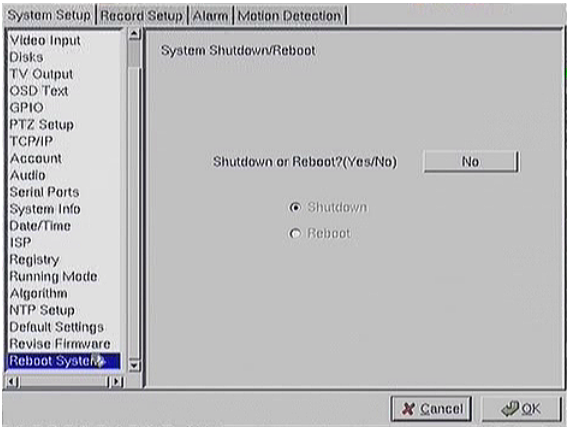
Use the **Revise Firmware** menu to upgrade the VP- 5804/5808 firmware.



Click **Revise Firmware?(Yes/No)** to start the firmware upgrade process. Click **Cancel** or **No** to abort the attempt.

Reboot system

Use the **Reboot System** menu to reboot or shutdown the system.

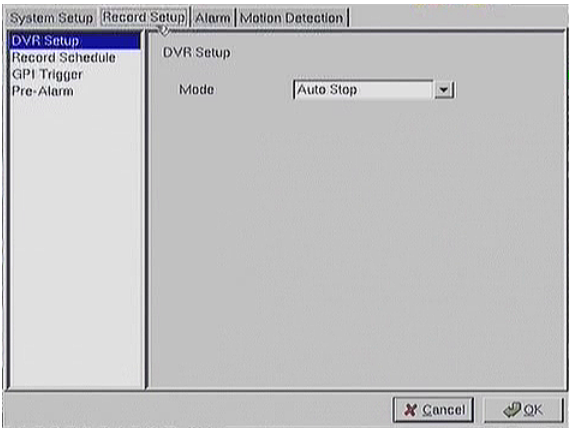


Use the keyboard or mouse to select either **Shutdown** or **Reboot**. Click **OK** to perform the operation. Click **Cancel** or **No** to abandon.

4.11.2 Record Setup

DVR setup

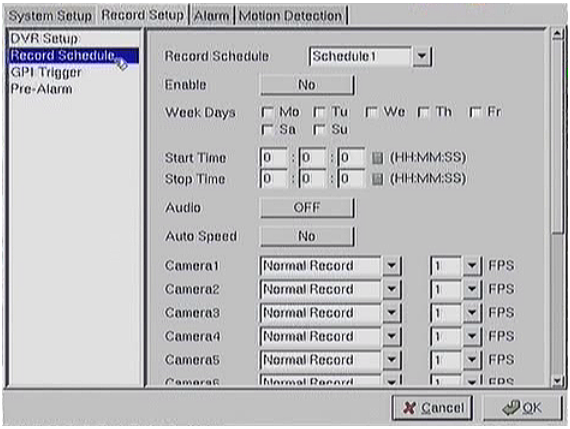
Use the **DVR** menu under the **Record Setup** tab to set the Digital Video Recorder parameters.



Select either **Auto Stop** or **Cyclic Recording**. Auto Stop recording stops when disk space runs out. Cyclic Recording continues to record until disk space runs out and then overwrites the oldest records. Click **OK** to save changes.

Record schedule

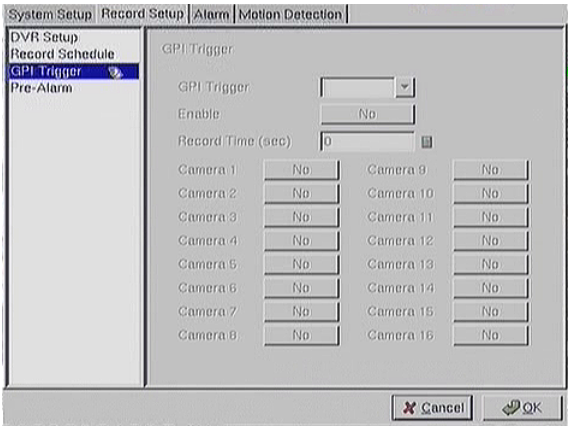
Use the **Record Schedule** menu under the **Record Setup** tab to set up automatic recording schedules for each camera. You can set up to 16 record schedules that automatically record at given times and days. Refer to **Record schedule** on page 37 for more information about the various fields in this menu.



Use the keyboard or mouse (recommended) to complete all fields and click **OK** to save changes.

GPI trigger

Use the **GPI Trigger** menu under the **Record Setup** tab to enable recording video from specified cameras when triggered by an external alarm (GPI) connected to the system. For instance, you may want to record video from a camera installed at your front door when the door lock is opened. In this case, connect an alarm module (not provided) to the door lock and set the front door camera to start recording.

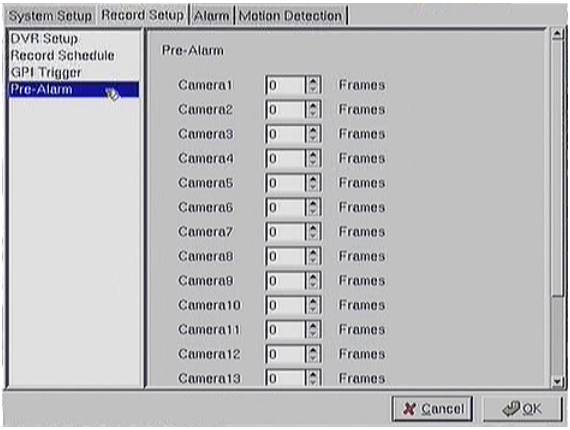


To set up the GPI trigger:

1. Select the required trigger from the **GPI Trigger** option.
2. Click **Enable** to allow the triggered recording.
3. Enter the recording time interval in the **Record Time (sec)** field.
4. Click the cameras whose video you want to record after the trigger is generated and set them to **Yes**.
5. Use the keyboard or mouse (recommended) to complete all fields and click **OK** to save changes.

Pre-Alarm

Use the **Pre-Alarm** menu under the **Record Setup** tab to determine how many frames are recorded before an alarm event occurs. Each camera can be set separately and you can record up to 300 frames.



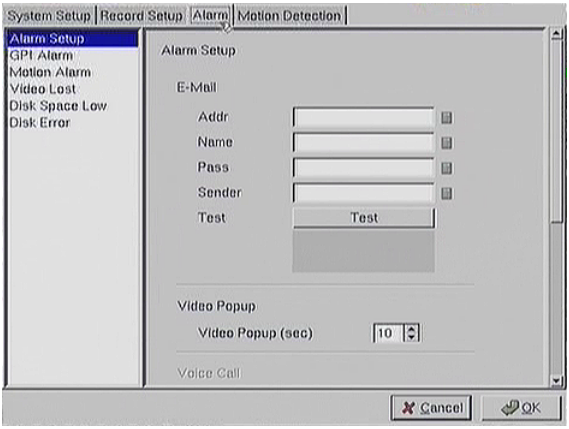
Use the keyboard or mouse (recommended) to enter the number of frames for each camera and click **OK** to save changes.

4.11.3 Alarm

Alarm setup

Use the **Alarm Setup** menu under the **Alarm** tab to define what action is taken when an alarm is triggered. Through this menu, you can set up an E-mail address to which an E-mail is sent when the alarm is generated, or set up the device to display a video popup message on your monitor, or place a voice call.

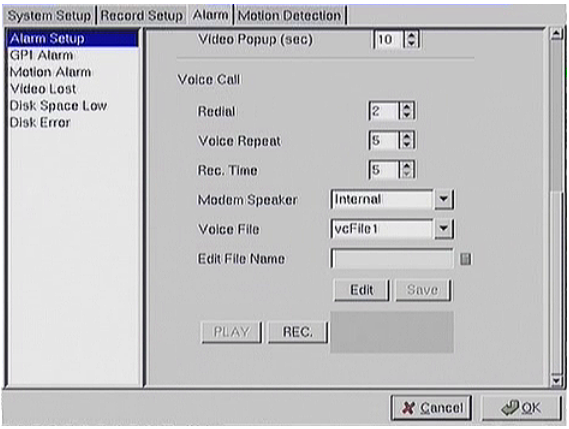
Refer to **Alarm** on page 27 for more information about the various fields.



The **Voice Call** options enable you to set up a voice modem that will make a call when the selected event (such as a GPI or motion alarm, or video lost from a camera) occurs. Set the following options:

- **Redial** – sets the number of times the voice modem will redial
- **Voice Repeat** – sets the number of times the voice message is repeated on the voice call
- **Rec. Time** – sets the time for which audio is recorded
- **Modem Speaker** – sets the internal or external speaker to be used
- **Voice File** – selects the voice file to be sent
- **Edit File Name** – enables you to change the file name of the voice file

Use the keyboard or mouse (recommended) to complete all fields and click **OK** to save changes. Refer to the following sections to see how to select the voice call as the action for specific events such as GPI alarm, motion detection, and so on.



Note: The **Voice Call** options will be greyed out in the menu system if the voice modem function is not selected in the serial port setup menu. Make sure that a voice modem is enabled in **device** field in the **Serial Ports** menu item in order to place voice calls. See **Serial ports** on page 60 for more details.

Voice call features

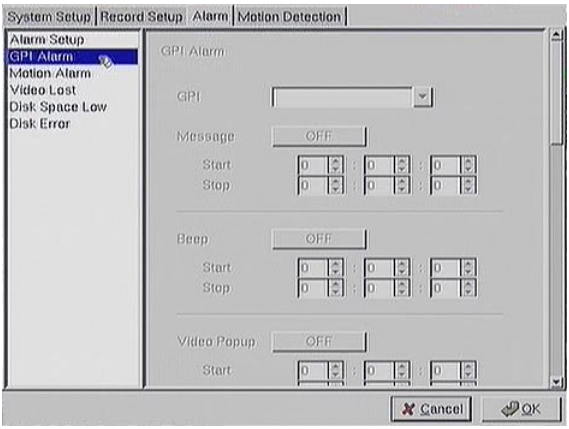
- A voice call message can be recorded using an internal or external microphone, and can be played back using an internal or external speaker.
- Up to 60 voice messages can be recorded and stored on the VP-5804/5808 and used for different alarm events.
- Messages recorded for the voice call function must be between 5 and 10 seconds.

Known issues with the voice call function

- There will be three seconds silence between a voice call being answered and the start of the message.
- If the voice call function calls a phone with an automatic answering machine, the VP-5804/5808 will behave as if the phone has been answered.
- The VP-5804/5808 does not support non standard ringing tones. If the VP-5804/5808 calls a phone and an unexpected tone is received, an error message will be generated.

GPI alarm

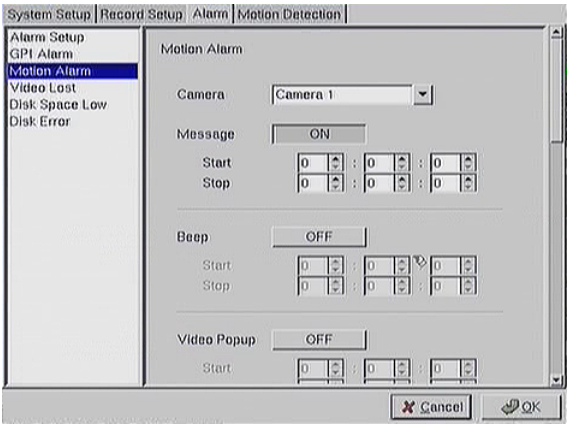
Use the **GPI Alarm** menu under the **Alarm** tab to set what actions are taken when a GPI alarm is generated. You can set up the alarm through a message, a beep, a video popup, or E-mail. Refer to **Alarm** on page 27 for more details about the actions.



Use the keyboard or mouse (recommended) to select the required GPI from the **GPI** drop-down box and complete all fields. For each action, you can specify the time interval over which the GPI is monitored for an alarm to be generated. For the **Voice Call** option, specify two telephone numbers where the call may be placed along with the voice file. For setting up the voice call . For the **E-mail** option, specify the recipient, subject, and text of the E-mail along with which of the cameras' status is sent in the E-mail and the start and stop times. Click **OK** to save changes.

Motion alarm

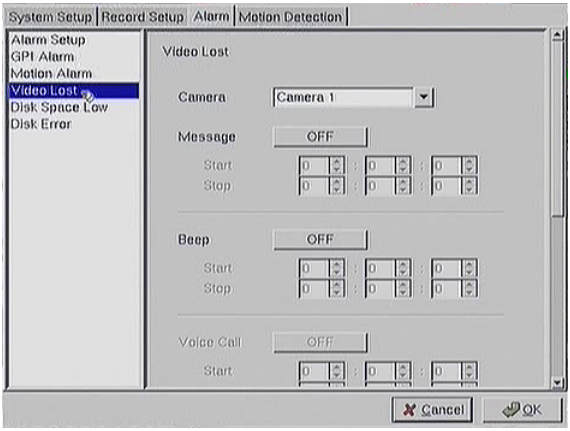
Use the **Motion Alarm** menu under the **Alarm** tab to set what actions are taken when a motion detection alarm is generated. You can set up the alarm through a message, a beep, a video popup, a voice call, or E-mail. Refer to **Alarm** on page 27 for more details about the actions.



Use the keyboard or mouse (recommended) to select the required camera for motion detection from the **Camera** drop-down box and complete all fields as described in **GPI alarm** on page 71. Click **OK** to save changes.

Video lost

Use the **Video Lost** menu under the **Alarm** tab to set what actions are taken when video signal from a camera is not available. You can set up the alarm through a message, a beep, a video popup, a voice call, or E-mail. Refer to **Alarm** on page 27 for more details about the actions.

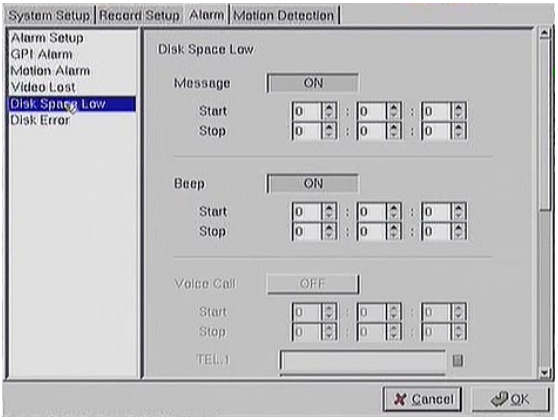


Use the keyboard or mouse (recommended) to select the required camera for video lost from the **Camera** drop-down box and complete all fields as

described in **GPI alarm** on page 70. Click **OK** to save changes.

Disk space low

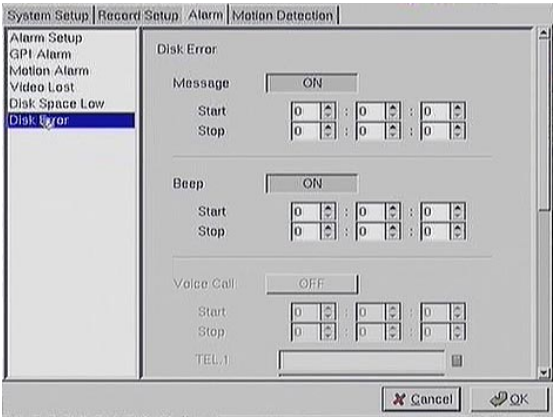
Use the **Disk Space Low** menu under the **Alarm** tab to set what actions are taken when the disk space is insufficient to record data. This alarm is generated only when the DVR mode is set to **Auto Stop**. (See **DVR setup** on page 66.) You can set up the alarm through a message, beep, voice call, video popup, or E-mail. Refer to **Alarm** on page 27 for more details about the actions.



Use the keyboard or mouse (recommended) to complete all fields as described in **GPI alarm** on page 71. Click **OK** to save changes.

Disk error

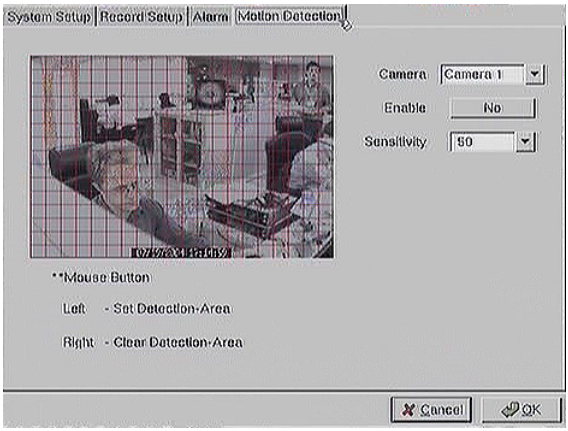
Use the **Disk Error** menu under the **Alarm** tab to set what actions are taken when there is an error while accessing the disk. You can set up the alarm through a message, a beep, a video popup, or E-mail. Refer to **Alarm** on page 27 for more details about the actions.



Use the keyboard or mouse (recommended) to complete all fields as described in **GPI alarm** on page 71. Click **OK** to save changes.

4.11.4 Motion detection

Use the **Motion Detection** page to set motion detection parameters for each camera.



Each small square on the displayed grid can be set to detect motion. Use the left mouse button to make a square sensitive to motion. Use the **Right** mouse button to make it insensitive. Click **OK** to save changes.

5. network operation

5.1 Introduction

The VP- 580 can be used and configured using either the supplied remote control unit or with a keyboard and mouse. It can also be configured over a network using a terminal with a standard web browser. This chapter covers network operation.

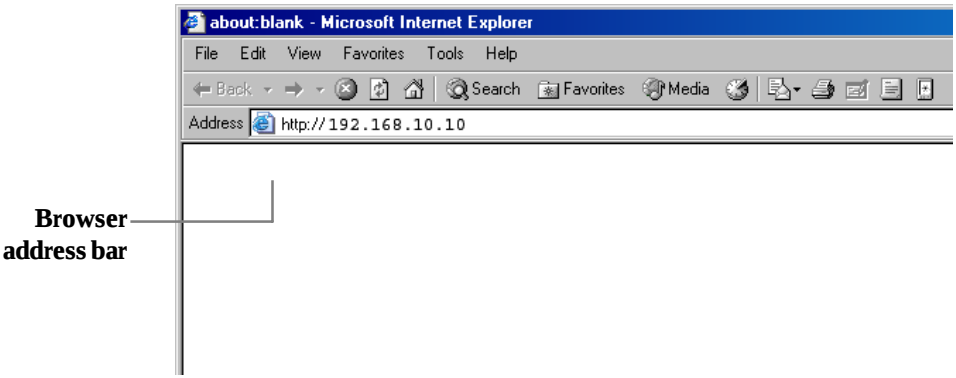
5.2 Connecting

The VP- 580 GUI can be viewed on a standard internet browser when the device is connected on the same network as your PC or if it is connected through a cable or xDSL modem to the Internet. Refer to the hardware manual for more information about making connections using the RJ-45 Ethernet (LAN) port.

Make sure that the VP- 580 is configured for **Network** running mode. See **Running modes** on page 5 for more information.

To access the VP- 580 GUI:

1. Open a browser window on a terminal that has network access to the VP- 580.
2. Type the IP address of the VP- 580 in the browser address bar.

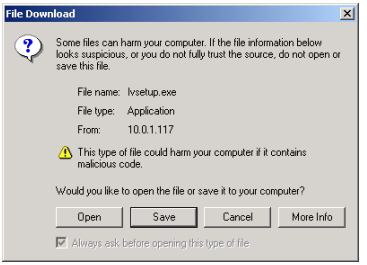


The first time you attempt to view the VP- 580 user interface using a web browser, an ActiveX installation procedure will begin automatically.

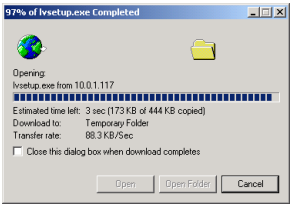
When the following window appears, click on the **Download LVSETUP.**

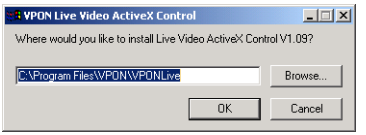
EXE link.

The download will begin and the following window will appear.

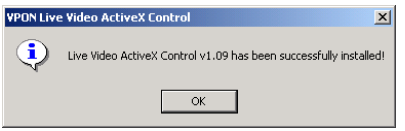


Click **Open** to download and install the new plug-in. The download status is displayed and you are prompted for an installation location.

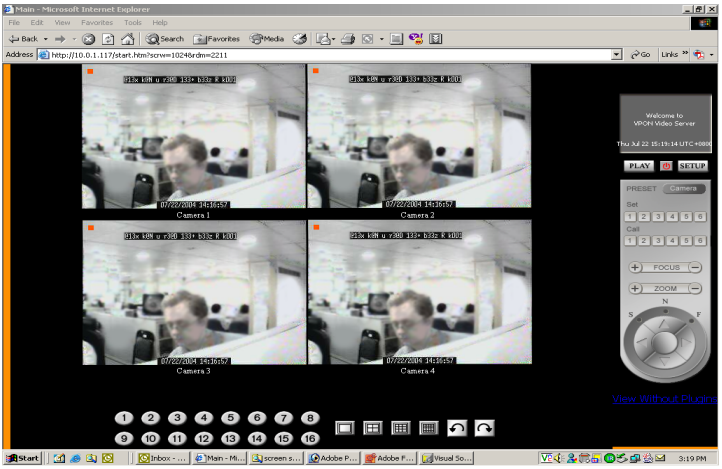




Click **OK** to complete the installation. The following message will appear.



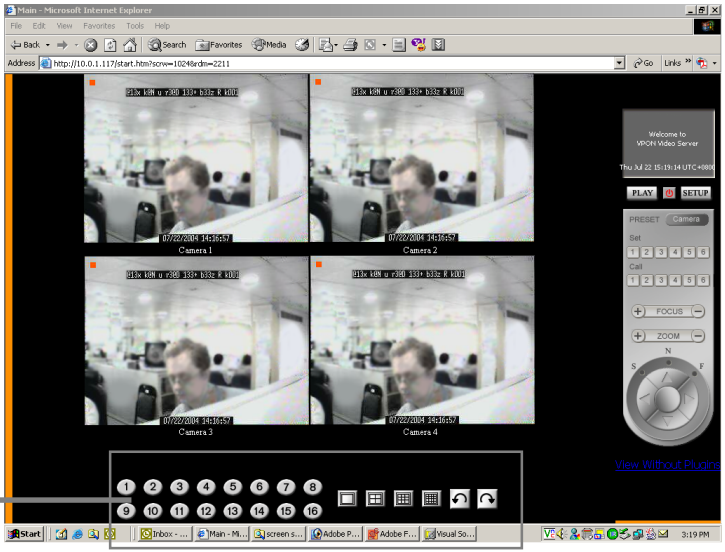
When installation is complete you will be able to view the VP- 580 Home Page.



The ActiveX installation will only happen once.

5.3 Surveillance screen panel

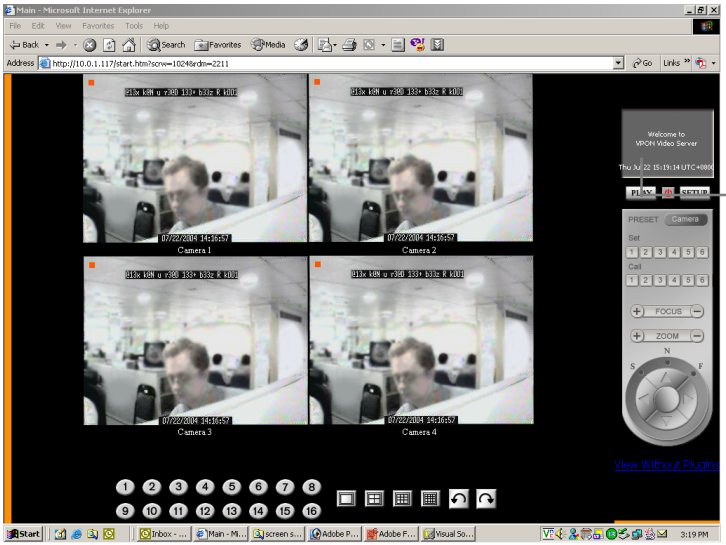
The **Surveillance Screen Panel** is very similar to the one on the local GUI. See **Surveillance screen panel** on page 47.



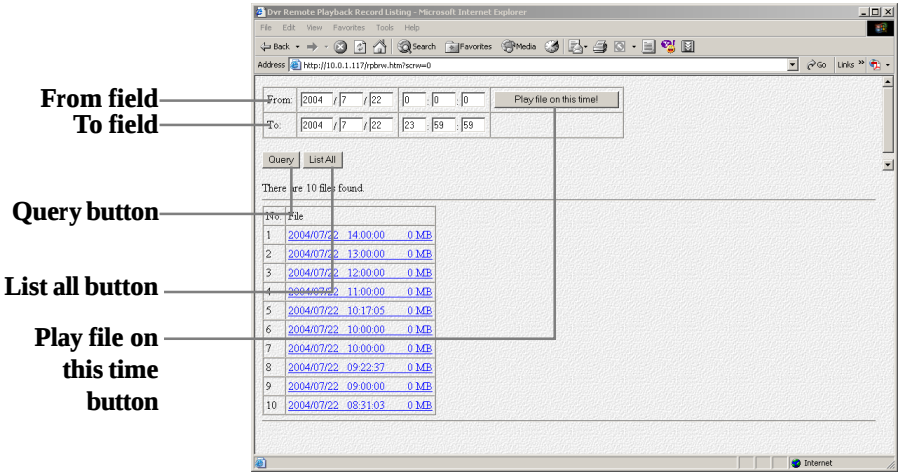
There is no Sequence button on the network GUI. This feature is only available on the local GUI.

5.4 Play button

Click the **Play** button to display a list of all the available recordings stored on the VP- 580 in a new browser window.



Click **List All** to display the entire list.



Click on a video recording to play it in a separate browser window.

Play a recorded video from a specific time and date by entering the time and date in the **From** field and clicking **Play file on this time.**

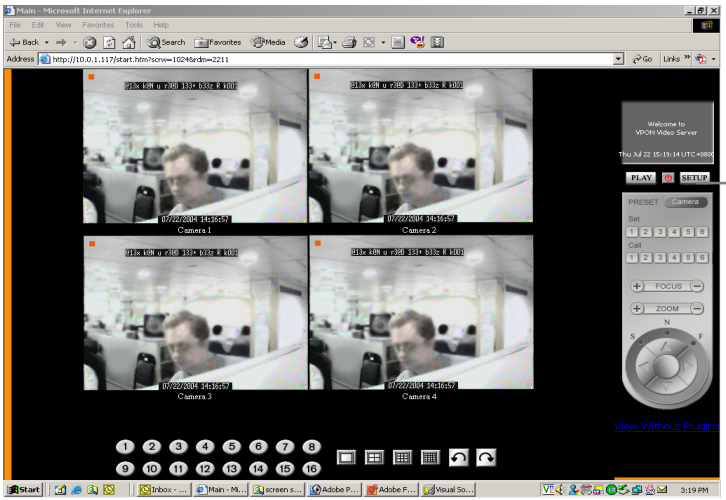
Search for files between particular times and dates by entering the dates in the To and **From** fields and clicking **Query**.

5.5 PTZ panel

The network GUI PTZ panel is exactly the same as the local GUI PTZ panel. See **PTZ panel** on page 51.

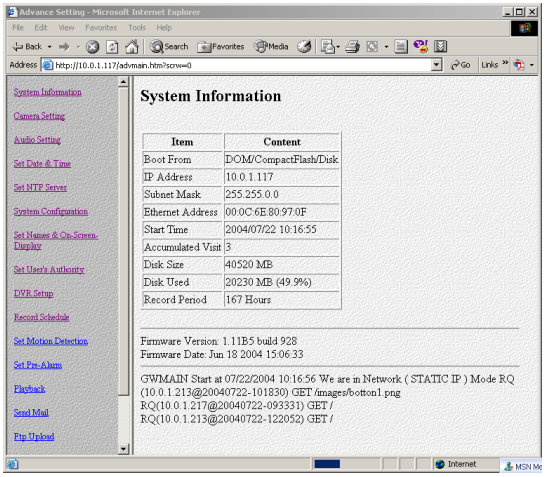
5.6 System Setup

Click the SETUP button to display the setup screen.



Setup button

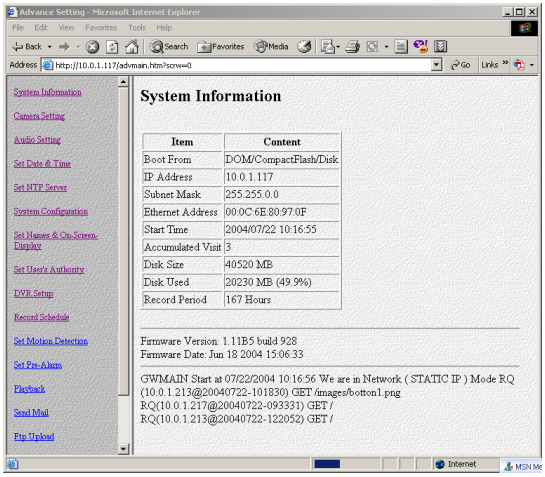
Use the setup screen to change user definable parameters for the VP- 580.



Choose a submenu from the list on the left and click the link to display it.

5.6.1 System information

Click the **System Information** link to display the **System Information** page.

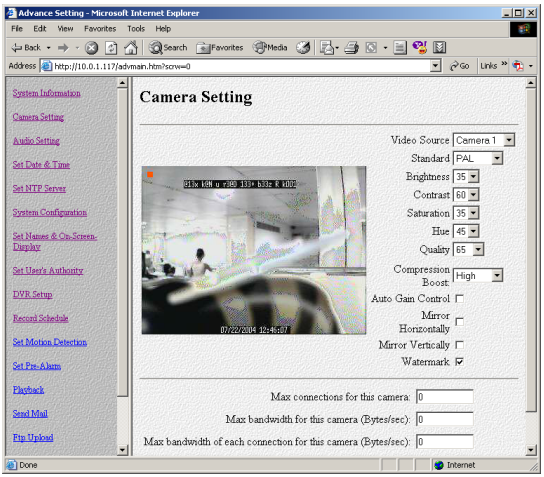


No information on this page is changeable.

5.6.2 Camera setting

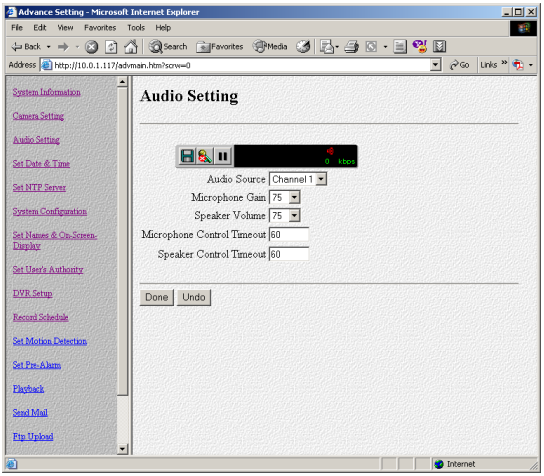
Use the **Camera Setting** page to change the video settings for each of the connected cameras. Refer to **Video** on page 15 for more information about the parameters. Each setting can be changed using the drop down menus and check boxes.

You can also enter a maximum number of connections allowed for each camera and maximum bandwidths.



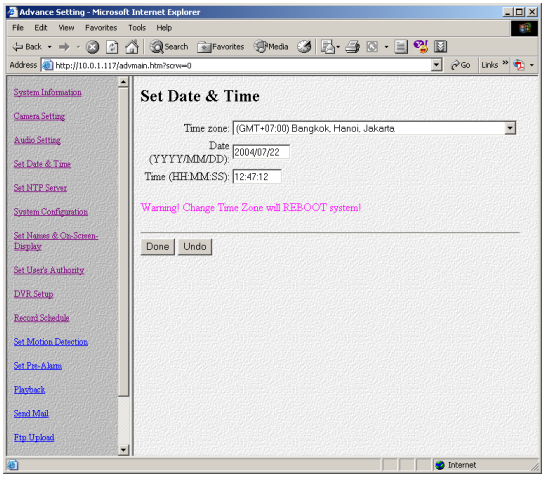
5.6.3 Audio setting

Use the **Audio Setting** page to define all the audio settings for the VP- 580. Refer to **Audio** on page 24 for more information about the various parameters. The VP- 580 supports two-way audio transmission between the device and the PC. But audio can only be recorded from the VP- 580 on the PC and not vice versa. The microphone and speaker time-out intervals represent the time interval of no signal after which the device is timed out.



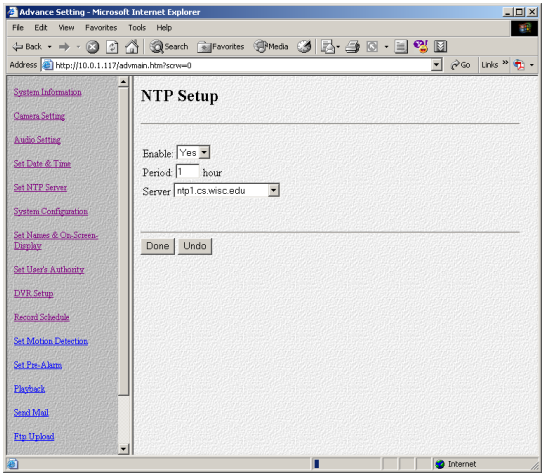
5.6.4 Set time and date

Use the **Set Time and Date** page to set the time and date. Select a time zone from the drop down menu and enter new local time and date using the keyboard. Click **Done** when all fields are updated. Click **Undo** to revert to original settings. If you change the time zone, the system will reboot.



5.6.5 Set NTP server

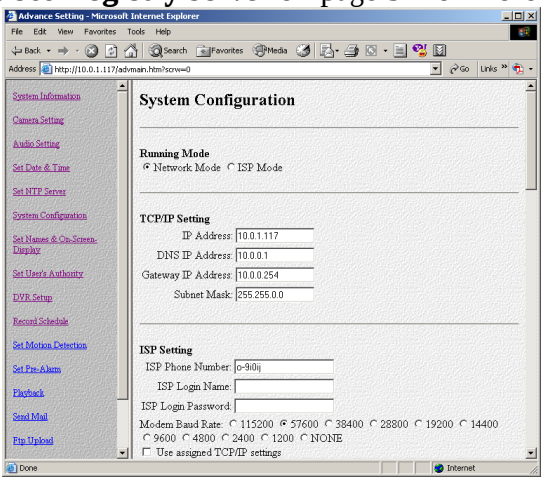
Use the **Set NTP Server** page to set parameters for a NTP (Network Time Protocol) server to synchronize the device time with the atomic clock. Select a server and enable it using the drop down menus. Enter a time period using the keyboard to indicate the period after which the time is re-synchronized. Click **Done** when all parameters are entered correctly. Click **Undo** to revert to original settings.



5.6.6 System configuration

Use the **System Configuration** page to set the following parameters for the VP- 580.

- **Running mode** – sets the operation and control mode. See **Running modes** on page 5 for more details.
- **TCP/IP setting** – configures TCP/IP.
- **ISP setting** – sets up dial-up parameters for sending E-mails. See **ISP** on page 33 for more information.
- **Account Setting** – sets up the administrator and user, and theirpasswords.
- **COM1/2 Port Setting** – sets up the serial ports. See **Serial ports** on page 25 for more details.
- **Set Video Compression Algorithm & Resolution** – sets the video compression algorithm. See **Algorithm** on page 35 for more information.
- **Set Camera Control** – sets PTZ control for the cameras. See **PTZ setup** on page 20 for more details.
- **Set IP Registry Host IP Address & Path** – sets up the registry server. See **Registry server** on page 34 for more information.

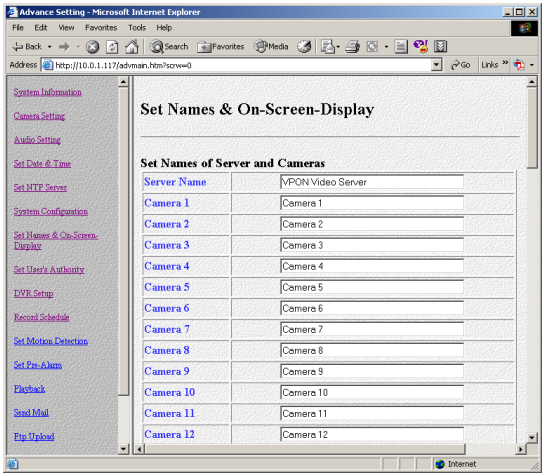


5.6.7 Set names and on-screen display

Use the **Set Names and On-Screen Display** page to set names for the server and all cameras. You can also use this page to enter the text to be displayed on screen with each camera under the **Set Overlay Text** option.

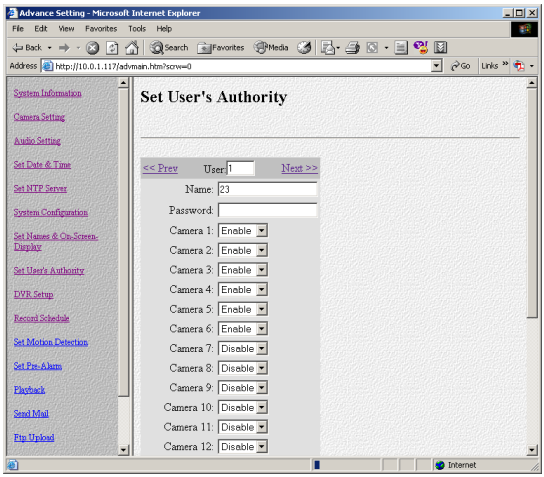
Use the **x** and **y** fields to define the position of the displayed text. Use the

Set Time Stamp option to define the format of the time stamp and where it appears on the display for each camera.



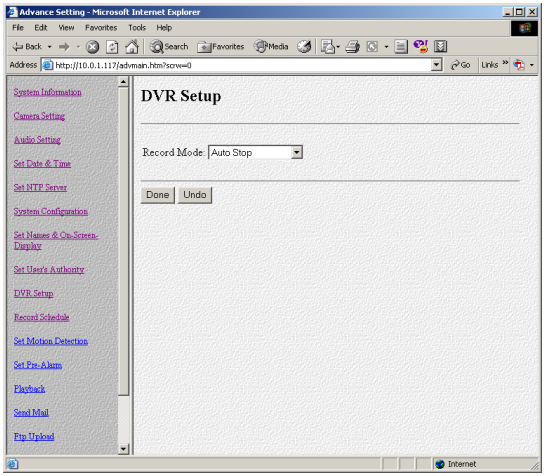
5.6.8 Set user's authority

Use the **Set User's Authority** page to set the individual privileges of up to 256 users. Enter the user number in the **User** field. Assign a name and password in the respective fields. To restrict users from viewing particular cameras, select the required cameras from **Camera 1~16**. Enable **Camera Control**, **Audio** and **Playback** of the video recording as needed.



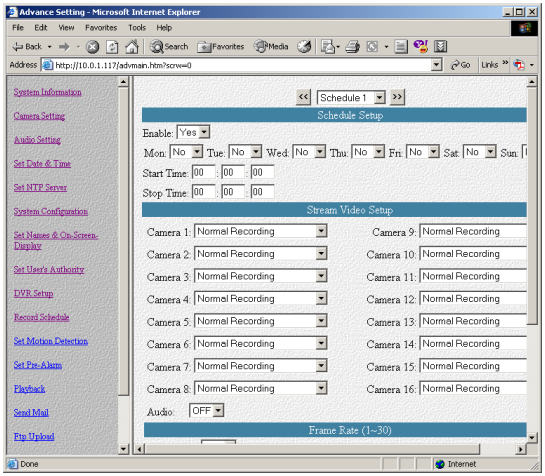
5.6.9 DVR setup

Use the **DVR Setup** page to set the recording mode to either **Autostop** (stops when disk space runs out) or **Cyclic Recording** (overwrites oldest recordings when disk space runs out).



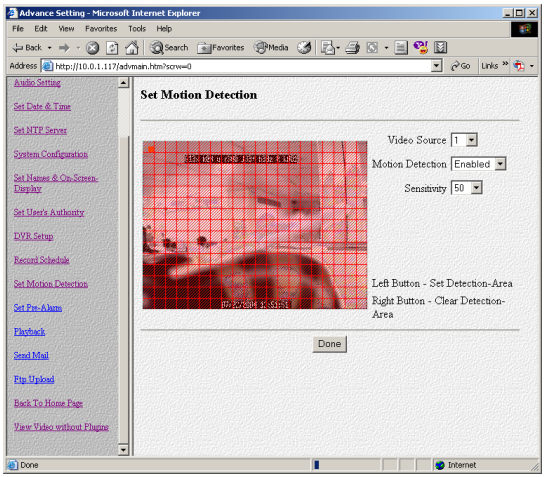
5.6.10 Record schedule

Use the **Record Schedule** page to set up to 16 automatic recording schedules. For each record schedule, select the day, and start and stop times for recording. For each camera, select **off**, **Normal Recording**, or **Motion Detection Recording** to record only when motion is detected. Enable **Audio** if you want to record audio also. Select a **Frame Rate** of recording for each camera.



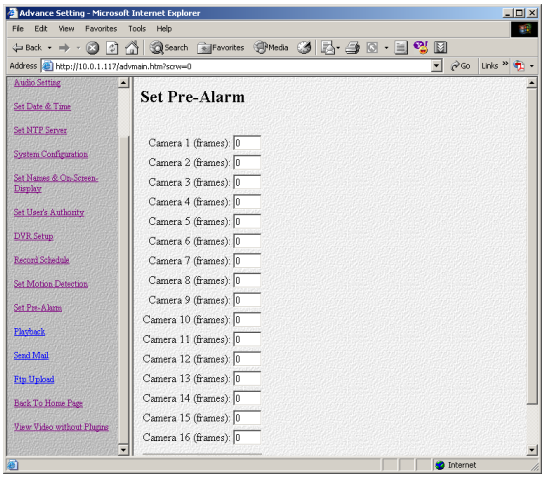
5.6.11 Motion detection

The **Motion Detection** page enables you to set the motion detection feature for each camera. You can adjust the area in the camera's field of vision that will checked for motion. Click on the grid to enable or disable motion detection. The red rectangle in the upper left corner indicates that motion is being detected. See **Alarm** on page 27 for more information about the motion detection feature.



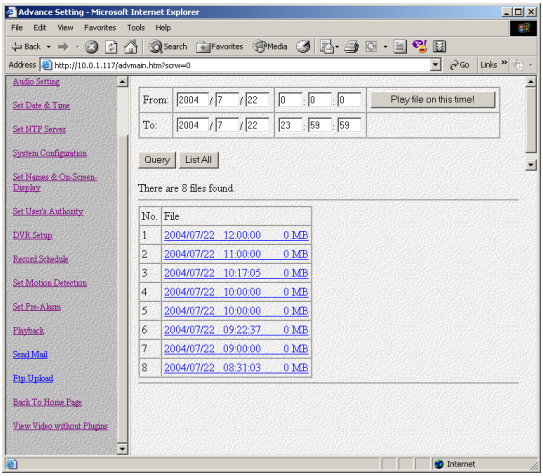
5.6.12 Set pre-alarm

The **Set Pre-Alarm** page on the network GUI enables you to set the number of frames that are recorded from each camera before a trigger is generated. Up to 300 frames can be recorded.

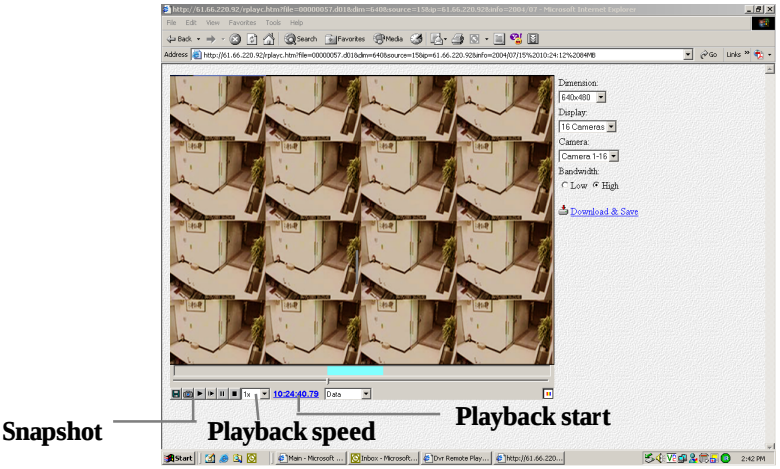


5.6.13 Playback

The **Playback** page enables you play back a video recording of your choice. Specify the day and time in the **To** and **From** fields and click the **Play file on this time!** field to play back files in the specified time duration. Click **List All** to list all recorded files. Click **Query** to search for a particular file based on **Event** or **Text**. Click a file to play it back.



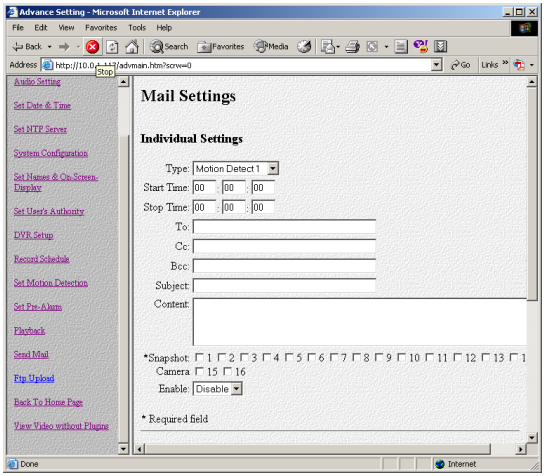
The file plays back in the browser window with the status at the bottom. Specify the resolution in the **Dimension** field. Select the camera whose video you want to watch in the **Camera** field and select the number of cameras (1, 4, or 9) in the **Display** field.Specify a high or low **Bandwidth** and click **Download&Save** to save the video recording to your local disk. Select **Data**, **Motion**, or **GPI** to view the status of the recorded file and the instances where the recording was triggered by motion detection or GPI.



Note: The **playback start** time can be changed to jump to any time during the recording. Click on the **playback start** time and change the time using the keyboard.

5.6.14 Send mail

The VP- 580 can send a snapshot by E-mail when triggered by an alarm. Use the **Send Mail** page to set E-mail details for each camera.



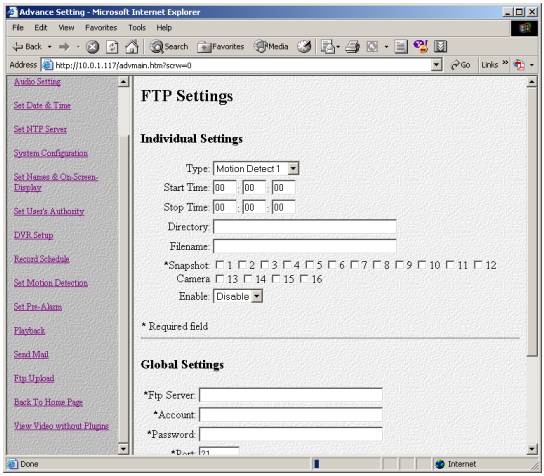
Under the **Individual Settings**, specify the type of event that causes the E-mail to be sent in the **Type** field by choosing **Motion Detect** or **GPI**. Fill in the start and stop times for monitoring the alarm, the recipients, subject and content of the E-mail. Enable a snapshot of the camera's video to be attached to the E-mail by selecting cameras in the **Snapshot** option.

Under the **Global Settings**, fill in the mail server details. Fill in the details using mouse and keyboard and click **Done** when complete.

Note: If you set a domain name in the mail server setting, provide the DNS IP address in the System Configuration (see **System configuration** on page 83).

5.6.15 FTP upload

The VP- 580 can upload snapshots from the camera using FTP to a pre-defined location in the event of an alarm. Use the **FTP Upload** page to set FTP details.



Under the **Individual Settings**, specify the type of event that causes the E-mail to be sent in the **Type** field by choosing **Motion Detect** or **Continuous**. Fill in the start and stop times for monitoring the alarm, the file name and directory for FTP. Enable a snapshot of the camera's video to be uploaded by selecting cameras in the **Snapshot** option.

> **Note:** If you specify a file name, each time a file is uploaded it will overwrite the previous file with another of the same name. If no file name is specified, a new file will be written each time with a new filename based on the time and date.

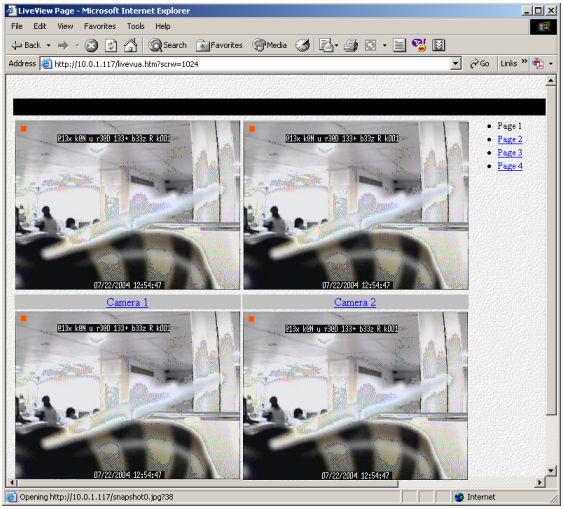
Under the **Global Settings**, fill in the FTP server, account, password, and port number. Fill in all the details using mouse and keyboard and click **Done** when complete.

5.7 Back to home page

The **Back To Home Pa**ge link will redirect you back to the VP- 580 home page.

5.8 View video without plug-ins

You can view video even if the machine you are working on does not have the plug-ins necessary for full functions. Click the **View Video Without Plug-ins** link to view the video page without plugins.



You will need to enter an administrator user name and password to view without plug-ins.

Note: Your browser must be configured to support Java applets to view without plug-ins.

Appendix

Troubleshooting

Cannot control PTZ camera

- Check cable connection and camera power.
- COM port parameters are not correct, or the PTZ device is not compatible.
- ID of the PTZ camera is not set correctly.
- Switch both VP- 580 and PTZ camera off and on again.
- VP- 580 does not support this type of PTZ camera.

Cannot access VPON from browser in network mode.

- Verify the network cable is well connected to the hub and the network is
  good.
- Make sure you are using an appropriate IP address for the network.
- Clear the ARP list.
- If you are running MS Proxy Client on your PC, and the IP address assigned to the VP- 580 is not a valid local IP on the network, allocate a valid local IP address to the VP- 580 or disable MS Proxy Client from the Control Panel.
- If you can ping the IP address of the VP- 580, disconnect VPON from network and ping this IP again. If there is a response, then you have a duplicated IP address on the network.
- Clear your browser cache and configure the browser to check for newer versions of the web page on every visit.
- If you still cannot access the VP- 580, disable proxy settings in your browser.

You can access the VP- 580 on the intranet, but not on the Internet.

- Verify your intranet is connected to the Internet.
- Verify if a valid public IP is assigned to the VP- 580 or a valid public IP is mapped to a valid local IP assigned to VP- 580.

No video.

- Reload the page.
- Clear your browses cache and configure the browser to check for newer versions of the web page on every visit.

You can access video on the intranet, but not across the Internet:

- Check firewall and proxy server settings. The VP- 580 uses standard HTTP protocol and port 80. It might be necessary to enable video MIME types (video/x-nficwmh263 and video/x-nficwmhjpeg) for the VP- 580 to be granted access by your firewall or proxy server. Also check if large data transmission is permitted.
- Disable proxy server settings in your browser.

Browsers stops responding to mouse clicks

- Too many video strings are open.
- You are opening more than one video string from the same camera.
- Your PC is too slow, upgrade your system.