SyncMaster 570S TFT
580S TFT
Flat Panel Monitor

Owner’s Instructions
# Table of Contents

Safety Instructions .................................................. 2  
Unpacking Your Monitor ........................................... 3  
Setting up Your Monitor ........................................... 4  
  Setting up an Ergonomic Workstation ......................... 4  
  Monitor location .................................................. 4  
  Workstation height ............................................... 4  
  Viewing angle ..................................................... 4  
  Kensington Security Slot ....................................... 4  
Connecting Your FPD Monitor ..................................... 5  
Connecting Your Multimedia FPD Monitor ....................... 6  
Plug and Play ....................................................... 7  
Installing the Video Driver ....................................... 7  
  Windows® 98 .......................................................... 7  
  Windows® 95 .......................................................... 8  
Self-Test Feature Check (STFC) .................................. 8  
Getting Help ......................................................... 9  
Warm-up Time ....................................................... 9  
Adjusting Your FPD ................................................ 10  
User Controls ....................................................... 10  
  Automatic Save .................................................... 11  
Direct-Access Features ........................................... 11  
  Auto Adjustment ................................................... 11  
  Brightness .......................................................... 12  
  OSM Lock/Unlock .................................................. 12  
On-Screen Menu System (OSM) ................................... 12  
  Accessing the menu system .................................... 13  
  OSM functions and adjustments ............................... 13  
Audio Controls ..................................................... 18  
Appendix ............................................................. 19  
  PowerSaver .......................................................... 19  
  Troubleshooting ................................................... 20  
  Specifications ....................................................... 24  
  Pin Assignments .................................................... 25  
  Display Modes ....................................................... 26  
Changing the Base .................................................. 27  
  Removing the base ................................................ 27  
  Attaching a base .................................................... 28  
Maintenance of Your Flat Panel Display ......................... 28  
Index ........................................................................ 29  
Regulatory Information ........................................... inside back cover
Safety Instructions

1. Before connecting the AC power cord to the DC adapter outlet, make sure the voltage designation of the DC adapter corresponds to the local electrical supply.

2. Never insert anything metallic into the openings in the cabinet of the flat panel display (FPD) monitor; doing so may create the danger of electric shock.

3. To avoid electric shock, never touch the inside of the FPD. Only a qualified technician should open the case of the FPD.

4. Never use your FPD if the power cord has been damaged. Do not allow anything to rest on the power cord, and keep the cord away from areas where people can trip over it.

5. Be sure to hold the plug, not the cord, when disconnecting the FPD from an electric socket.

6. Openings in the FPD cabinet are provided for ventilation. To prevent overheating, these openings should not be blocked or covered. Also, avoid using the FPD on a bed, sofa, rug, or other soft surface. Doing so may block the ventilation openings in the bottom of the cabinet. If you put the FPD in a bookcase or some other enclosed space, be sure to provide adequate ventilation.

7. Put your FPD in a location with low humidity and a minimum of dust.

8. Do not expose the FPD to rain or use it near water (in kitchens, near swimming pools, etc.). If the FPD accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the FPD with a damp cloth when necessary, but be sure to unplug the FPD first.

9. Place the FPD on a solid surface and treat it carefully. The screen is made of thin glass with a plastic front surface and can be damaged if dropped, hit or scratched. Do not clean the front panel with keton-type materials (e.g., acetone), ethyl alcohol, toluene, ethyl acid, methyl, or chloride – these may damage the panel.

10. Locate your FPD near an easily accessible AC outlet.

11. If your FPD does not operate normally – in particular, if there are any unusual sounds or smells coming from it – unplug it immediately and contact an authorized dealer or service center.

12. High temperature can cause problems. Don’t use your FPD in direct sunlight, and keep it away from heaters, stoves, fireplaces, and other sources of heat.

13. Unplug the FPD when it is going to be left unused for an extended period of time.

14. Unplug your FPD from the AC outlet before any service.

---

**CAUTION**

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
Unpacking Your Monitor

Please make sure the following items are included with your monitor. If any items are missing, contact your dealer.

- Colorific & Driver
- Pivot software (optional)
- Warranty Card (not available everywhere)
- Manual
- DC Adapter (Optional)
- Power Cord
- 15-pin D-Sub Signal Cable
- Speaker Cable (Optional)
- Microphone Output Cable (Optional)
- Monitor and Base
- Monitor and Base

† Your monitor may come equipped with one of five different stands, or none at all, according to the option you selected at the time of purchase. Contact your dealer if you want a different base.

Wire-frame base
Angle-Pivot base
Simple base
Multimedia base
Pivot Multimedia base
Setting up Your Monitor

Setting up an Ergonomic Workstation
Consider the advice given below before you install your monitor.

Monitor location
Choose a position that exposes you monitor to the least reflection from lights or windows, usually at a right angle to any window.

Workstation height
Place your flat panel display (FPD) monitor so that the top of the screen is slightly below your eye level when you are comfortably seated.

Viewing angle
Tilt the screen backward or forward to a comfortable viewing position.

Kensington Security Slot
This monitor offers you the opportunity to secure your monitor using a Kensington-type security device. Kensington lock not included. Refer to your locking device documentation for installation instructions.
Setting up Your Monitor

Connecting Your FPD Monitor

Figure 3. Cable connections

1. Turn off your computer and unplug its power cord.

2. Connect the signal cable to the 15-pin, D-sub connector on the back of your monitor.

3. Connect the signal cable to the video port on your computer, video board, video card, or graphics card.

4. Connect the power cord for your monitor to the DC adapter and connect the adapter jack to the DC power port on the back of your monitor.

5. Plug the computer and monitor power cords into a nearby power mains outlet.

6. Turn your computer and monitor on. If your monitor displays an image, it has been successfully installed.

7. If necessary, install the video driver for this monitor (see “Installing the Video Driver” on page 7).

8. After your monitor has been fully installed, run Auto Adjustment (see page 11).
Connecting Your Multimedia FPD Monitor

1. Follow steps 1 through 3 on the previous page.

2. If you have a Multimedia or Multimedia Pivot stand, connect the attached power adapter jack (A) to the DC power port on the back of your monitor. Connect the power cord to the power port on the back of the stand.

3. Follow the directions that came with your sound card or your computer to connect the speakers and microphone on the stand. See Figure 4, above and Table 1, below.

4. Continue with step 5 on the previous page.

Table 1. Connector locations for multimedia bases

<table>
<thead>
<tr>
<th>Item</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Attached power adapter jack</td>
<td>Connect this cable to the DC power port on the back of the monitor cabinet.</td>
</tr>
<tr>
<td>B</td>
<td>Power port</td>
<td>Connect the power cable here.</td>
</tr>
<tr>
<td>C</td>
<td>Power switch</td>
<td>Use this switch to turn the monitor On and Off.</td>
</tr>
<tr>
<td>D</td>
<td>MIC OUT jack</td>
<td>Connect a cable here to send sound from the internal microphone to the computer’s sound card.</td>
</tr>
<tr>
<td>E</td>
<td>AUDIO IN jack</td>
<td>Connect a cable here to bring sound from your computer’s sound card.</td>
</tr>
</tbody>
</table>
Setting up Your Monitor

Plug and Play

Our adoption of the new VESA® Plug and Play solution eliminates complicated and time consuming setup. It allows you to install your monitor in a Plug and Play compatible system without the usual hassles and confusion. Your PC system can easily identify and configure itself for use with your display. This monitor automatically tells the PC system its Extended Display Identification (EDID) data using Display Data Channel (DDC) protocols so the PC system can automatically configure itself to use the flat panel display. If your PC system needs a video driver, following the instructions given below according to the operating system your computer uses.

Installing the Video Driver

When prompted by the operating system for the monitor driver, insert the Driver diskette included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions as appropriate for the operating system you have.

Windows® 98

1. Windows® 98 will auto-detect your new monitor and start the “Add New Hardware Wizard” if the drivers are not already installed. Click the NEXT button to search for drivers.

2. Check the diskette drive box to install the drivers off the diskette provided with your FPD monitor and click NEXT.

3. Confirm that Windows found the driver on the diskette and click NEXT again to install the driver.

To manually install or update the driver, follow the directions below:

1. Click on START, SETTINGS, CONTROL PANEL, DISPLAY SETTINGS tab, ADVANCED, MONITOR tab, CHANGE. This will start the “Add New Hardware Wizard”.

2. Follow the same directions as given in the steps in the section above.

Table 1. Connector locations for multimedia bases (Continued)

<table>
<thead>
<tr>
<th>Item</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>External microphone jack</td>
<td>Connect an external microphone here. Using an external microphone automatically disconnects the monitor’s internal microphone.</td>
</tr>
<tr>
<td>G</td>
<td>Headphone jack</td>
<td>Connect headphones here. Connecting headphones automatically turns the speakers off.</td>
</tr>
</tbody>
</table>
Setting up Your Monitor

Windows® 95
To determine the version of Windows® 95 that your computer uses, right click on the “My Computer” icon on the Windows desktop and select “Properties”. The version number can be seen on the “General” section under “System:”. Follow the directions given below according to the version of your Windows® 95 operating system:

Version 4.00.950A
1. Click on **START, SETTINGS, CONTROL PANEL, DISPLAY SETTINGS** tab, **CHANGE DISPLAY TYPE, CHANGE, HAVE DISK**.
2. Type the diskette drive letter in the box and click **OK**.

Version 4.00.950B
1. Click on **START, SETTINGS, CONTROL PANEL, DISPLAY, ADVANCED PROPERTIES, MONITOR** tab, **HAVE DISK**.
2. Type the diskette letter in the box and click **OK**.

Self-Test Feature Check (STFC)
Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark and the power indicator is blinking, run the monitor self-test by performing the following steps:

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer.
3. Turn on the monitor.
Setting up Your Monitor

If the monitor is functioning properly, you will see a white box with a red border and black text inside as shown in the following illustration:

![No Connection]

Figure 5. Monitor self test screen

The three boxes inside the border are red, green and blue. Failure of any of the boxes to appear indicates a problem with your monitor. This box also appears during normal operation if the video cable becomes disconnected or damaged.

4 Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after using the previous procedure, check your video controller and computer system; your monitor is functioning properly.

Getting Help

If your monitor does not display an image, check your cable connections and refer to “Troubleshooting” on page 20. If you experience difficulties with the quality of the displayed image, run Auto Adjustment (see page 11) and refer to “Adjusting Your FPD” on page 10 or “Troubleshooting” on page 20.

Warm-up Time

All FPD monitors need time to become thermally stable the first time you turn them on each day. Therefore, to achieve more accurate adjustments for parameters, allow the FPD monitor to warm (be on) for at least 20 minutes before making any screen adjustments.
# Adjusting Your FPD

## User Controls

Your flat panel display allows you to easily adjust the characteristics of the image being displayed. All of these adjustments are made using the control buttons on the front of the monitor. While you use these buttons to adjust the controls, an on-screen menu shows you their numeric values as they change.

![User Control Locations](image)

### Figure 6. User control locations

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AUTO</td>
<td>Activates the Auto Adjustment function</td>
</tr>
<tr>
<td>2</td>
<td>EXIT</td>
<td>Exits from menus and sub-menus&lt;br&gt;Exits from the on-screen menu system (OSM)</td>
</tr>
<tr>
<td>3</td>
<td>Power indicator</td>
<td>Glows green during normal operation&lt;br&gt;Glows amber while the monitor is in a power saving mode and if the signal cable becomes disconnected</td>
</tr>
<tr>
<td>4</td>
<td>Power button</td>
<td>Turns the monitor on and off</td>
</tr>
</tbody>
</table>
| 5   | ~/+  
Brightness     | Moves the selector between menus and sub-menus on the OSM<br>Decreases or increases values of the selected function<br>Directly adjusts the brightness level if pressed while the OSM is off (See the section on “Direct-Access Features” on page 11.) |
| 6   | MENU                  | Opens the OSM system and sub-menus<br>Selects the highlighted function                         |
Adjusting Your FPD

Automatic Save
Whenever you open the on-screen menu and allow an adjustment window to remain active for about 3 seconds without pressing another button, the monitor automatically saves any adjustments you have made. These changes are saved into a user area in the monitor. User areas are reserved according to the signal frequency from your computer. The monitor can save adjustments for up to 5 user modes. It has 12 factory preset or preload modes, one for each signal frequency as listed in “Display Modes” on page 26.

If you have made no adjustments, the on-screen menu disappears and the monitor does not save anything. To exit without saving the changes you have made, press the EXIT button before the 3 seconds elapse.

Direct-Access Features
The features described in this section can be accessed quickly, at the touch of one button. Once you finish making adjustments to a feature, push the EXIT button to turn off the menu or allow the OSM to time-out and disappear automatically.

Auto Adjustment
Even though your computer system can recognize your new FPD monitor, the auto adjustment function will optimize the display settings for use with your computer.

Follow these instructions to activate the automatic screen adjustments for your monitor.

1. Push the AUTO button. The automatic adjustment display appears and the slide bar moves to indicate progress during the auto adjustment procedure.

NOTE: 1. For Auto Adjustment to function correctly, the monitor must display a full screen, colored image such as the Windows desktop.
2. Even though Auto Adjustment sets most image adjustments automatically, distortions may remain depending on the video board performance. After using Auto Adjustment, we recommend that you perfect the image by using the OSM functions.
Adjusting Your FPD

Brightness

Follow these instructions to adjust the brightness of the monitor’s display.

1. With the menu off, push the “–” or “+” button to display the brightness screen.
2. Push the “+” button to increase the brightness; push the “–” button to decrease the brightness.

OSM Lock/Unlock

Use this function to secure the current settings so that they cannot inadvertently be changed, while still allowing you to adjust Brightness and Contrast. You can unlock the OSM controls at any time by using the same procedure as described below.

1. Push and hold the MENU button for 5 seconds to Lock or Unlock the controls. When locked, a “LOCKED!” message displays along the bottom of each OSM menu screens except the “Brightness” and “Contrast” screens.

On-Screen Menu System (OSM)

Function icons

Function name

Setting slidebar

Numeric value indicator

Figure 7. On-Screen Menu (OSM)
Accessing the menu system

1. With the OSM off, push the **MENU** button to open it and display the main function menu.

2. Use the “−” and “+” buttons to move between the function icons. As you move from one icon to another, the function name changes to reflect the function or group of functions represented by that icon. See the Screen controls table to view a complete list of all the functions available for the monitor.

3. Push the **MENU** button once to activate the highlighted function then use the “−” and “+” buttons to move to sub-menus, or according to the indicators on the menu, to make your changes.

4. After selecting a function, use the “−” and “+” buttons to make the adjustments. The setting slidebar moves and the numeric value indicator changes to reflect your adjustments.

   **NOTE:** The numeric value indicator is provided as a point of reference only and does not reflect any measurable value.

5. Push the **EXIT** button once or twice to return to the main menu to select another function or push the **EXIT** button 1 to 3 times to exit from the OSM.

### OSM functions and adjustments

#### Table 2. Screen controls

<table>
<thead>
<tr>
<th>Icon</th>
<th>Menus and Sub-menus</th>
<th>−</th>
<th>Function Descriptions</th>
<th>+</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Brightness Icon" /></td>
<td><strong>Brightness</strong></td>
<td><img src="image" alt="Brightness Adjustment" /></td>
<td><img src="image" alt="Brightness Adjustment" /></td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Contrast Icon" /></td>
<td><strong>Contrast</strong></td>
<td><img src="image" alt="Contrast Adjustment" /></td>
<td><img src="image" alt="Contrast Adjustment" /></td>
<td></td>
</tr>
</tbody>
</table>
## Image Lock

Image Lock controls adjust for and limit the amount of noise in the video signal which causes horizontal lines or areas on the screen where the image appears to be unstable and jitters or shimmers.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Function Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Image Lock Icon]</td>
<td>Image Lock controls adjust for and limit the amount of noise in the video signal which causes horizontal lines or areas on the screen where the image appears to be unstable and jitters or shimmers.</td>
</tr>
</tbody>
</table>

### Fine

The Fine and Coarse adjustments allow you to more closely adjust your monitor to your preference. Use the “–” and “+” buttons to adjust away interference.

- If satisfactory results are not obtained using the Fine adjustment, use the Coarse adjustment and then use Fine again.
- This function may change the width of the display image. Use the H-Position menu to center the display image on the screen.

### Coarse

- Fine
- Coarse

### H-Position

- Use the H-Position menu to center the display image on the screen.

### V-Position

- Use the V-Position menu to center the display image on the screen.
# Adjusting Your FPD

## Table 2. Screen controls (Continued)

<table>
<thead>
<tr>
<th>Icon</th>
<th>Menus and Sub-menus</th>
<th>Function Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="reset_icon.png" alt="Reset" /></td>
<td>Reset</td>
<td>Restores the viewing area and color settings to their original manufacturing levels</td>
</tr>
<tr>
<td><img src="geometry_icon.png" alt="Geometry Reset" /></td>
<td>Geometry Reset</td>
<td>Resets the H-Position and V-Position of the viewing area</td>
</tr>
<tr>
<td><img src="color_icon.png" alt="Color Reset" /></td>
<td>Color Reset</td>
<td>Resets the Brightness, Contrast and Color Control functions</td>
</tr>
<tr>
<td><img src="temperature_icon.png" alt="Color Temperature" /></td>
<td>Color Temperature</td>
<td>Select the Color Mode you find most comfortable and then fine tune the colors using the Color Control menus</td>
</tr>
<tr>
<td><img src="mode1_icon.png" alt="Mode 1" /></td>
<td>Mode 1</td>
<td>Sets the color to the natural characteristics of the FPD</td>
</tr>
<tr>
<td><img src="mode2_icon.png" alt="Mode 2" /></td>
<td>Mode 2</td>
<td>Sets the color to a warm (reddish) white</td>
</tr>
<tr>
<td><img src="mode3_icon.png" alt="Mode 3" /></td>
<td>Mode 3</td>
<td>Sets the color to a cool (bluish) white</td>
</tr>
<tr>
<td><img src="control_icon.png" alt="Color Control" /></td>
<td>Color Control</td>
<td>Adjusts the saturation of Red, Green and Blue in the display area</td>
</tr>
<tr>
<td><img src="red_icon.png" alt="Red" /></td>
<td>R(ed)</td>
<td>Decreases redness</td>
</tr>
<tr>
<td><img src="green_icon.png" alt="Green" /></td>
<td>G(reen)</td>
<td>Decreases greenness</td>
</tr>
<tr>
<td><img src="blue_icon.png" alt="Blue" /></td>
<td>B(lue)</td>
<td>Decreases blueness</td>
</tr>
</tbody>
</table>
### Adjusting Your FPD

Table 2. Screen controls (Continued)

<table>
<thead>
<tr>
<th>Icon</th>
<th>Menus and Sub-menus</th>
<th>Function Descriptions</th>
</tr>
</thead>
</table>
| ![Language Icon](image) | **Language:**  
  - English  
  - Deutsch  
  - Español  
  - Français  
  - Italiano  
  - Svenska | Language sets the OSM to display in one of six languages.  
The language chosen affects only the language of the OSM. It has no effect on any software running on the computer. |
| ![Menu Position Icon](image) | **Menu Position** | Each time the OSM opens it displays in the same location on the screen. Menu Position controls that location. |
| ![H-Position Icon](image) | **H-Position** | |
| ![V-Position Icon](image) | **V-Position** | |
| ![Menu Display Time Icon](image) | **Menu Display Time:**  
  - 5 Seconds  
  - 10 Seconds  
  - 20 Seconds  
  - 200 Seconds | The OSM stays active for as long as it is in use. Menu Display Time sets the length of time the OSM will remain active after the last time you pushed a button. |
## Adjusting Your FPD

Table 2. Screen controls (Continued)

<table>
<thead>
<tr>
<th>Icon</th>
<th>Menus and Sub-menus</th>
<th>Function Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>![i]</td>
<td><strong>Display Mode</strong></td>
<td>This screen shows the horizontal and vertical frequencies, sync polarity and the display resolution of the images received from the computer or video card.</td>
</tr>
</tbody>
</table>
Audio Controls

To access the On/Off, Volume, Bass and Treble functions, rotate the appropriate control button to the right or left to adjust the function.

Table 3. Audio Control Function

<table>
<thead>
<tr>
<th>No.</th>
<th>Function</th>
<th>Description and adjustments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Internal Microphone</td>
<td>Picks up sound and sends it to the sound card in your PC</td>
</tr>
<tr>
<td>2</td>
<td>On/Off Volume</td>
<td>Turns the sound on and off</td>
</tr>
<tr>
<td>3</td>
<td>Bass</td>
<td>Adjusts the volume of the low sound</td>
</tr>
<tr>
<td>4</td>
<td>Treble</td>
<td>Adjusts the volume of the high sound</td>
</tr>
<tr>
<td>5</td>
<td>Mic On/Off</td>
<td>Turns the internal microphone on or off. Push the button:</td>
</tr>
</tbody>
</table>

Figure 8. Multimedia stand audio controls
**Appendix**

**PowerSaver**

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The available modes are “On”, “Standby”, “Sleep”, and “Deep Sleep”.

PowerSaver operates with a VESA DPMS compliant video card installed in your computer. You use a software utility installed on your computer to set up this feature. See Table 4 below for details.

**Table 4. Power-saving modes**

<table>
<thead>
<tr>
<th>State</th>
<th>Normal Operation</th>
<th>Power-Saving Function mode (EPA/NUTEK)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Standby Mode</td>
</tr>
<tr>
<td>Horizontal Sync</td>
<td>Active</td>
<td>Inactive</td>
</tr>
<tr>
<td>Vertical Sync</td>
<td>Active</td>
<td>Active</td>
</tr>
<tr>
<td>Video</td>
<td>Active</td>
<td>Inactive</td>
</tr>
<tr>
<td>Power Indicator</td>
<td>Green</td>
<td>Amber</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>25W (Nom.)</td>
<td>Less than 3W</td>
</tr>
</tbody>
</table>

**NOTE:** This monitor automatically returns to normal operation when horizontal and vertical sync return. This occurs when you move the computer’s mouse or press a key on the keyboard.

This monitor is EPA ENERGY STAR® compliant and NUTEK compliant when used with a computer equipped with VESA DPMS functionality.

For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods.
## Troubleshooting

If you have a problem setting up or using your FPD monitor, you may be able to solve it yourself. Before contacting customer service, try the suggested actions that are appropriate to your problem.

### Table 5. Troubleshooting problems – Image

<table>
<thead>
<tr>
<th>What you see...</th>
<th>Suggested Action</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen is blank and power indicator is off</td>
<td>■ Ensure that the power cord is firmly connected and the FPD monitor is on.</td>
<td>Connecting your FPD Monitor, page 5.</td>
</tr>
</tbody>
</table>
| "No Connection, Check Signal Cable" message         | ■ Ensure that the signal cable is firmly connected to the PC or video board.  
■ Ensure that the PC is turned on.                  | Connecting your FPD Monitor, page 5.          |
| "Video mode not supported" message                  | ■ Check the maximum resolution and the frequency on the video port of your computer.  
■ Compare these values with the data in the Display Modes Timing Chart. | Display Modes, page 26.                      |
| The image is too light or too dark                   | ■ Adjust the Brightness and Contrast.                 | Brightness, page 12 and page 13.              |
|                                                     |                                                       | Contrast, page 13.                            |
| Horizontal bars appear to flicker, jitter or shimmer on the image | ■ Adjust the Fine function.                           | Image Lock, Fine, page 14.                    |
| Vertical bars appear to flicker, jitter or shimmer on the image | ■ Adjust the Coarse function and then adjust the Fine function. | Image Lock, Coarse, page 14.  
## Appendix

Table 5. Troubleshooting problems – Image (Continued)

<table>
<thead>
<tr>
<th>What you see...</th>
<th>Suggested Action</th>
<th>Reference</th>
</tr>
</thead>
</table>
| Screen is blank and power indicator light is steady amber or blinks every 0.5 or 1 seconds | ■ The monitor is using its power management system.  
■ Move the computer’s mouse or press a key on the keyboard                              | PowerSaver, page 19.            |
| Image is not stable and may appear to vibrate                    | ■ Check that the display resolution and frequency from your PC or video board is an available mode for your monitor. On your computer check: Control Panel, Display, Settings  
■ If the setting is not correct, use your computer utility program to change the display settings. | Display Mode, page 17.  
Display Modes, page 26.  
Installing the Video Driver, page 7. |

**NOTE:** Your monitor supports multiscan display functions within the following frequency domain:

| Horizontal frequency:  
| Vertical frequency:  
| Maximum refresh rate: | 30 kHz – 61 kHz  
50 Hz – 75 Hz  
1024 x 768 @ 75 Hz |

V-Position, page 14.                          |

| You need the monitor driver software                          | ■ Download the driver from the internet at:  
http://www.samsungelectronics.com                  |                                  |


### Table 6. Troubleshooting problems – Audio

<table>
<thead>
<tr>
<th>Problem</th>
<th>Suggested Action</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>No sound</td>
<td>■ Ensure that the audio cable is firmly connected to both the audio-in port on your monitor and to the audio–out port on your sound card or computer.&lt;br&gt; ■ Rotate the Audio On/Off and Volume control to the right to turn it on and raise the volume.</td>
<td>Connecting your Multimedia Monitor, page 6.&lt;br&gt; Audio Controls, page 18.</td>
</tr>
<tr>
<td>Sound level is too low</td>
<td>■ Rotate the Audio On/Off and Volume control to the right to raise the volume.</td>
<td>Audio Controls, page 18.</td>
</tr>
<tr>
<td></td>
<td>■ If the volume is still too low after turning the control to its maximum, check the volume control on the computer sound card or software program.</td>
<td>Refer to your computer, sound card or software documentation.</td>
</tr>
<tr>
<td>Howling effect occurs</td>
<td>■ Decrease the volume slightly.&lt;br&gt; ■ If you are using an external microphone, move it away from the speakers and adjust the volume level.</td>
<td>Audio Controls, page 18.</td>
</tr>
<tr>
<td>Sound is too high pitched or too low pitched</td>
<td>■ Adjust the Treble and Bass as appropriate.</td>
<td>Audio Controls, page 18.</td>
</tr>
</tbody>
</table>
## Appendix

Table 6. Troubleshooting problems – Audio

<table>
<thead>
<tr>
<th>Problem</th>
<th>Suggested Action</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microphone is not working</td>
<td>• Check the microphone cable connection.</td>
<td>Connecting your Multimedia Monitor, page 6.</td>
</tr>
<tr>
<td></td>
<td>• Your sound card must be compatible with an internal, embedded microphone.</td>
<td>Your computer or sound card documentation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Specifications

Table 7. Technical and environmental specifications

<table>
<thead>
<tr>
<th>Panel</th>
<th>Size</th>
<th>15.0” Diagonal</th>
<th>304.1 (H) x 228.1 (V) mm</th>
<th>a-si TFT active matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Size</td>
<td>304.1 (H) x 228.1 (V) mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>a-si TFT active matrix</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pixel pitch</td>
<td>0.297 (H) x 0.297 (V) mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>60/60/55/55 (L/R/U/D): min.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Depending on the panel manufacturer, the viewing angle may be different from this spec.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Frequency</td>
<td>Horizontal</td>
<td>30 – 61 kHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vertical</td>
<td>50 – 75 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Display color</td>
<td>16,003,008 colors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display Resolution</td>
<td>Optimum Mode</td>
<td>1024 x 768 @ 60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum Mode</td>
<td>1024 x 768 @ 75 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input Signal</td>
<td>Sync</td>
<td>H/V Separate, TTL, P. or N.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>H/V Composite, TTL, P. or N.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sync-on-green 0.3 Vp-p, N.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.7 Vp-p @ 75 ohm, P.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>AC 90-264 Volt, 60 Hz / 50Hz to 12V/3A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Normal</td>
<td>25 Watt</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Power Saving</td>
<td>Less than 3 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions / Unit Weight / incl. Carton</td>
<td>Unit (WxHxD) with Simple base:</td>
<td>385.4 x 373.3 x 173 mm / 5.20Kg / 8.4Kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MultiMedia base:</td>
<td>385.4 x 406.2 x 179 mm / 5.95Kg / 9.15Kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pivot MM base:</td>
<td>385.4 x 406.2 x 179 mm / 5.95Kg / 9.15Kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Angle-Pivot base:</td>
<td>385.4 x 431.6 x 178.9 mm / 6.6Kg / 9.8Kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wire-frame base:</td>
<td>385.4 x 339.2 x 99.7 mm / 4.4Kg / 7.6Kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Carton (WxHxD):</td>
<td>500 x 260 x 457 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Considerations</td>
<td>Operating Temperature</td>
<td>50 °F to 104 °F (10 °C to 40 °C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Operating Humidity</td>
<td>10% to 80%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Storage Temperature</td>
<td>13 °F to 113 °F (-25 °C to 45 °C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Storage Humidity</td>
<td>5% to 95%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio Characteristics</td>
<td>Built-in Mic.</td>
<td>High Sensitivity Condenser Mic. (mono)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Available with Multimedia bases only)</td>
<td>Audio Input</td>
<td>L/R Stereo Phone Jack, 0.5 Vrms</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sound Output</td>
<td>1.0 W (L) + 1.0 W (R)/THD 1% at 8 ohm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Frequency Response</td>
<td>80 Hz - 20 KHz (at -3dB)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Headphone</td>
<td>Max 50 mW output (3.5 – pi jack)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Pin Assignments

Table 8. 15 pin D-sub connector

<table>
<thead>
<tr>
<th>Pin</th>
<th>Separate H/V</th>
<th>Composite H/V</th>
<th>Sync-on-green</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Red</td>
<td>Red</td>
<td>Red</td>
</tr>
<tr>
<td>2</td>
<td>Green</td>
<td>Green</td>
<td>Green + H/V Sync</td>
</tr>
<tr>
<td>3</td>
<td>Blue</td>
<td>Blue</td>
<td>Blue</td>
</tr>
<tr>
<td>4</td>
<td>GND</td>
<td>GND</td>
<td>GND</td>
</tr>
<tr>
<td>5</td>
<td>GND (DDC Return)</td>
<td>GND (DDC Return)</td>
<td>GND (DDC Return)</td>
</tr>
<tr>
<td>6</td>
<td>GND-Red</td>
<td>GND-Red</td>
<td>GND-Red</td>
</tr>
<tr>
<td>7</td>
<td>GND-Green</td>
<td>GND-Green</td>
<td>GND-Green</td>
</tr>
<tr>
<td>8</td>
<td>GND-Blue</td>
<td>GND-Blue</td>
<td>GND-Blue</td>
</tr>
<tr>
<td>9</td>
<td>No Connection</td>
<td>No Connection</td>
<td>Not used</td>
</tr>
<tr>
<td>10</td>
<td>GND-Sync/Self Test</td>
<td>GND-Sync/Self Test</td>
<td>GND-Sync/Self Test</td>
</tr>
<tr>
<td>11</td>
<td>GND</td>
<td>GND</td>
<td>GND</td>
</tr>
<tr>
<td>12</td>
<td>DDC Data</td>
<td>DDC Data</td>
<td>DDC Data</td>
</tr>
<tr>
<td>13</td>
<td>Horizontal Sync</td>
<td>H/V Sync</td>
<td>Not used</td>
</tr>
<tr>
<td>14</td>
<td>Vertical Sync</td>
<td>Not used</td>
<td>Not used</td>
</tr>
<tr>
<td>15</td>
<td>DDC Data</td>
<td>DDC Data</td>
<td>DDC Data</td>
</tr>
</tbody>
</table>
Display Modes

If the signal from the system equals to the standard signal mode, the screen is automatically adjusted. If the signal from the system doesn’t equal to the standard signal mode, adjust the mode with referring to the Videocard user guide because the screen might not display or only the power LED might be on. For the display modes listed below, the screen image has been optimized during manufacture.

Table 9. Preset timing modes

<table>
<thead>
<tr>
<th>Display Mode</th>
<th>Horizontal Frequency (kHz)</th>
<th>Vertical Frequency (Hz)</th>
<th>Pixel Clock (MHz)</th>
<th>Sync Polarity (H/V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGA, 640 x 350</td>
<td>31.47</td>
<td>70.00</td>
<td>25.175</td>
<td>+/-</td>
</tr>
<tr>
<td>VGA, 720 x 400</td>
<td>31.47</td>
<td>70.00</td>
<td>28.322</td>
<td>-/+</td>
</tr>
<tr>
<td>VGA, 640 x 480</td>
<td>31.47</td>
<td>60.00</td>
<td>25.175</td>
<td>-/-</td>
</tr>
<tr>
<td>VGA, 640 x 480</td>
<td>37.50</td>
<td>75.00</td>
<td>31.500</td>
<td>-/-</td>
</tr>
<tr>
<td>Mac. 640 x 480</td>
<td>35.00</td>
<td>66.67</td>
<td>30.240</td>
<td>-/-</td>
</tr>
<tr>
<td>SVG, 800 x 600</td>
<td>35.16</td>
<td>56.20</td>
<td>36.000</td>
<td>+, –/+, –</td>
</tr>
<tr>
<td>SVG, 800 x 600</td>
<td>37.88</td>
<td>60.30</td>
<td>40.000</td>
<td>+/-</td>
</tr>
<tr>
<td>SVG, 800 x 600</td>
<td>46.875</td>
<td>75.00</td>
<td>49.500</td>
<td>+/-</td>
</tr>
<tr>
<td>Mac. 832 x 624</td>
<td>49.73</td>
<td>75.00</td>
<td>57.284</td>
<td>-/-</td>
</tr>
<tr>
<td>XGA, 1024 x 768</td>
<td>48.36</td>
<td>60.00</td>
<td>65.000</td>
<td>-/-</td>
</tr>
<tr>
<td>XGA, 1024 x 768</td>
<td>56.48</td>
<td>70.00</td>
<td>75.000</td>
<td>-/-</td>
</tr>
<tr>
<td>XGA, 1024 x 768</td>
<td>60.02</td>
<td>75.00</td>
<td>78.750</td>
<td>+/-</td>
</tr>
</tbody>
</table>
Appendix

Changing the Base

Removing the base

1. Turn off your monitor and unplug its power cord.
2. Lay the LCD monitor face-down on a flat surface with a cushion beneath it to protect the screen.
3. Remove the four screws and then remove the Stand from the LCD monitor.
Attaching a base

NOTE: This monitor accepts a 75mm x 75mm VESA-compliant mounting interface pad.

1. Align the Mounting Interface Pad with the holes in the Rear Cover Mounting Pad and secure it with the four screws that came with the arm-type base, wall mount hanger or other base.

Maintenance of Your Flat Panel Display

WARNING: To avoid risk of electric shock, do not disassemble the monitor cabinet (except for gaining access to the cable connectors as described on page 6). Users cannot service the monitor. User maintenance is restricted to cleaning as explained below:

Unplug the monitor from the power outlet before cleaning.

- To clean your flat panel display screen, lightly dampen a soft, clean cloth with water or mild detergent. If possible, use a special screen cleaning tissue or solution suitable for the antistatic coating.
- To clean the monitor cabinet, use a cloth lightly dampened with a mild detergent.
- Never use flammable cleaning material to clean your flat panel display or any other electrical apparatus.
INDEX

Numerics
15-pin D-sub connector 25

A
Audio controls 18
Auto adjustment 11
AUTO button 10
Automatic save 11

B
Bases
Angle-pivot 3
Multimedia 3
Pivot Multimedia 3
Wire-frame 3
Bass 18
Brightness 12, 13
Brightness button 10

Buttons
−/+ 10
AUTO 10
Brightness 10
EXIT 10
MENU 10
Power 10

C
Cable connections 5
Coarse 14
Color control 15
Color temperature 15
Contrast 13

D
DC adapter 3
Deep sleep mode 19
Display mode 17

E
EXIT button 10, 13

F
Fine 14

G
Getting help 9

H
H-position 14

I
Image lock 14
Coarse 14
Fine 14
Internal microphone 18

K
Kensington security slot 4

L
Language 16

M
MENU 10
MENU button 12, 13
Menu display time 16
Menu position 16
Mic 18
Microphone 18
Multimedia base 3
Multimedia connections 6
Multimedia base 3

O
On-screen menu (OSM) 12
OSM lock/unlock 12

P
Plug and play 7
Power button 10
Power indicator 10
Preset timing modes 26

R
Reset 15
Color 15
Geometry 15

S
Safety instructions 2
Screen controls 13
Security slot 5
Self-test feature check 8
Simple base 3
Sleep mode 19
Standby mode 19
INDEX

STFC 8
T
Tilt the screen 4
Treble 18
Troubleshooting 20
V
Volume 18

V-position 14
W
Warm-up Time 9
Windows 95 8
Windows 98 7
Wire-frame base 3
FCC Information

User Instructions
The Federal Communications Commission Radio Frequency Interference Statement includes the following warning:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

User Information
Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

Warning
User must use shielded signal interface cables to maintain FCC compliance for the product.

Declaration of conformity for products Marked with FCC Logo
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The party responsible for product compliance:
SAMSUNG ELECTRONICS CO., LTD
America QA Lab of Samsung
85 West Tasman Drive
San Jose, CA 95134 USA
Tel) 408-544-5124
Fax) 408-544-5191

Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating.

For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6-15P type (tandem blades) plug cap.

IC Compliance Notice
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations of ICES-003.

Cet appareil Numérique de classe B respecte toutes les exigences du Règlement ICES-003 sur les équipements produisant des interférences au Canada.

MPR II Compliance
This monitor complies with SWEDAC(MPR II) recommendations for reduced electric and magnetic fields.

European Notice
Products with the CE Marking comply with both the EMC Directive (89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:

- EN55022 (CISPR 22) – Radio Frequency Interference
- EN50082-1 : 1992 – Electromagnetic Immunity
- EN60555-2 (IEC555-2) – Power Line Harmonics
- EN60555-3 (IEC555-3) – Voltage Fluctuations
- EN60950 (IEC950) – Product Safety.
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São Paulo • SP
Tel.: (011) 541-8500
Fax.: (011) 523-3995, 522-0726

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Tel.: (468) 590-965-00
Fax.: (468) 590-966-50

“*As an ENERGY STAR® Partner, SAMSUNG has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.”

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