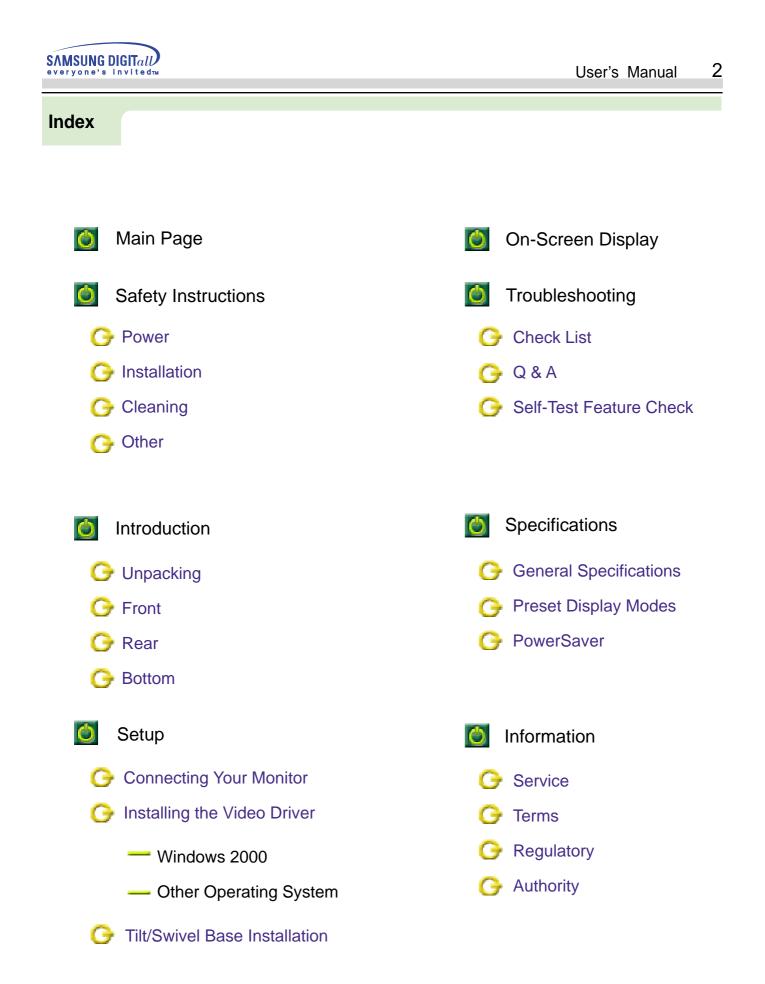
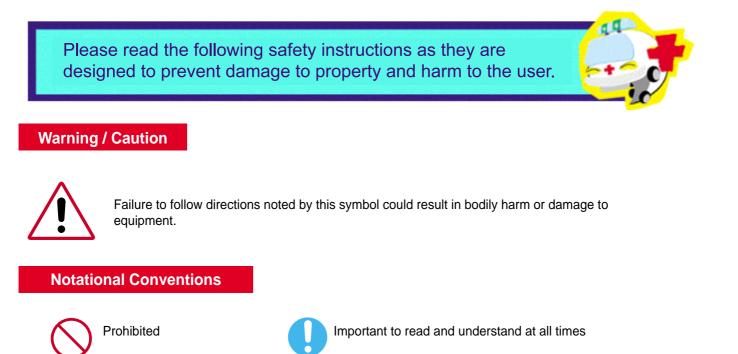


SyncMaster 551v/551s











Do not disassemble



Disconnect the plug from the outlet



Do not touch



Grounding to prevent an electric shock

Power



When not used for extended periods of time, set your PC to DPMS. If using a screen saver, set it to the active screen mode.

If the size of your monitor is small, or if the same image is present for long periods of time, you may see afterimages due to damage to the flourescent substance on the inside of the CDT.



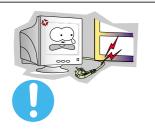
- Do not use a damaged or loose plug.
 - ◆ This may cause an electric shock or fire.



- Do not pull the plug out by the wire nor touch the plug with wet hands.
 - ◆ This may cause an electric shock or fire.



- Use only a properly grounded plug and recepticle.
 - An improper ground may cause electric shock or equipment damage.



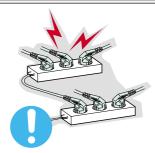
- Do not excessively bend the plug and wire nor place heavy objects upon them, which could cause damage.
- ◆ Failure to do so may cause an electric shock or fire.



SAMSUNG DIGITall



- Disconnect the plug from the outlet during storms or lightening or if it is not used for a long period of time.
 - ◆ Failure to do so may cause an electric shock or fire.



- Do not connect too many extension cords or plugs to an outlet.
 - ◆ This may cause a fire.



Installation





- \bullet Do not cover the vents on the monitor cabinet.
 - ◆ Bad ventilation may cause a breakdown or fire.
- Put your monitor in a location with low humidity and a minimum of dust.
 - ♦ An electric shock or fire could result inside the monitor.



- Do not drop the monitor when moving it.
 - ◆ This may cause damage to the product or human body.



- Place the monitor on a flat and stable surface.
 - The monitor can cause injury by falling.



- Set down the monitor carefully.
 - ◆ It could be damaged or broken.
- Do not place the monitor face down.
 - ◆ The CRT surface may be damaged.

• Do not use the monitor without the monitor stand.

♦ It could break down or cause a fire due to bad ventilation.

♦ If the monitor must be used without the supplied stand, take steps to insure proper ventilation.



Cleaning



When cleaning the monitor case or the surface of the CDT, wipe with a slightly moistened, soft fabric.

Do not clean Flat monitor with water. Use a water-diluted mild detergent.

(Some detergents contain significant amounts of alcohol-based solvents, which can damage (color change) or crack the monitor case. The antiglare/anti-static surface coating on the CDT may also be affected.)

Dilute the detergent (1:10 ratio) with water before using.



Do not spray detergent directly on the monitor.



- Use the recommended detergent with a smooth cloth.
 - You can prevent the coated CDT from being damaged or the monitor cabinet from being dissolved, cracked or discolored.
 - You can buy a recommended detergent at any Samsung Service Center.



Caution : Use a recommended detergent only, as other surfactants containing large amounts of alcohol, solvent or other strong substances, can discolor or crack the monitor or damage the coated CDT



- If the connector between the plug and the pin is dusty or dirty, clean it properly with a dry cloth.
 - ◆ A dirty connector can cause an electric shock or fire.



- Do not set a glass of water, chemicals or any small metal objects on the monitor.
- This may cause damage, electric shock or a fire.
- If a foreign substance gets into the monitor, disconnect the plug and then contact a service center.



SAMSUNG DIGITall

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Other



• Do not remove cover(or back). No user serviceable parts inside.

- This may cause an electric shock or a fire.
- Refer servicing to qualified service personnel.



- If your monitor 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.
 - This may cause an electric shock or a fire.



- Do not place any heavy objects on the monitor.
- ◆ This may cause an electric shock or a fire.



- For each hour of looking at the monitor, you should let your eyes rest for 5 minutes.
 - This will reduce eye fatigue.

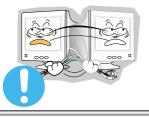


- Do not use or store inflammable substances near the monitor.
 - This may cause an explosion or fire.



- Do not try to move the monitor by pulling on the wire or the signal cable.
 - This may cause a breakdown, electric shock or a fire due to damage to the cable.





- Do not move the monitor right or left by pulling only the wire or the signal cable.
 - This may cause a breakdown, electric shock or a fire due to damage to the cable.



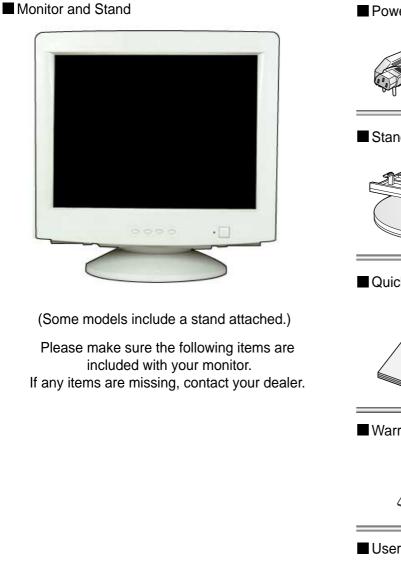
- Never insert anything metallic into the monitor openings.
 - ◆ This may cause an electric shock, fire or injury.



- Keep the monitor away from any magnetic substances.
 - ◆ This may cause discoloring or distortion of the image.

Introduction

Unpacking



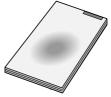
Power Cord



Stand



Quick Setup Guide



Warranty card (Not available in all locations)



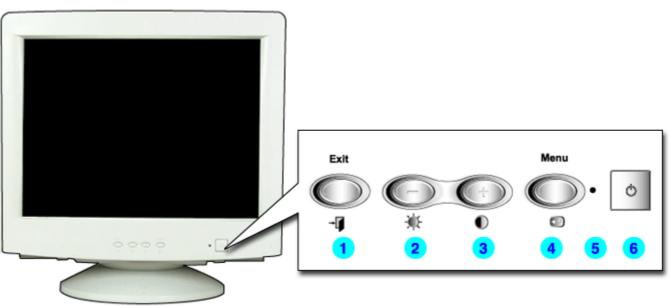
User's Guide and Driver Installation CD





Introduction

Front



- 1. Exit button : Use this button to Exit the active menu or the OSD.
- 2,3 Adjust buttons

- : These buttons allow you to highlight and adjust items in the menu.
- 4. Menu button 5. Power indicator
- : Use this button to open the OSD and activate a highlighted menu item. : This light glows green during normal operation, and grows green when you are making adjustments.
- 6. Power button
- : Use this button to turn the monitor on and off.

See PowerSaver described in the manual for further information regarding power saving functions. Note: For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods.



Introduction

Rear



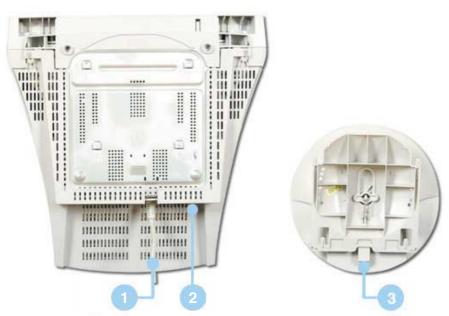
- 1. Power port : Connect the power cord for your monitor to the power port on the back of the monitor.
- 2.Signal cable :Connect the end of the signal cable to your computer's video port (video board,video card or graphics card).



See Connecting Your Monitor for further information regarding cable connections.

Bottom

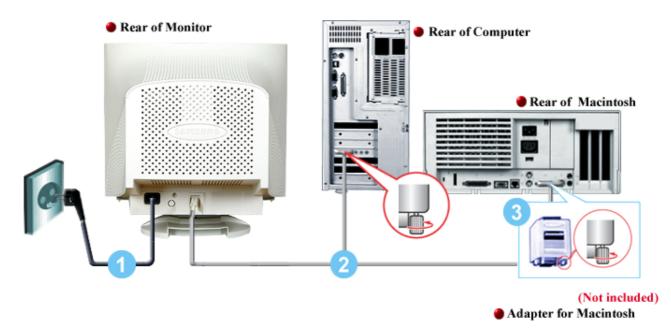
(The configuration at the back of the moniter may vary from product to product.)



- **1. Signal cable** : Connect the end of the signal cable to your computer's video port (video board, video card or graphics card).
- **2. Power port** : Connect the power cord for your monitor to the power port on the back of the monitor.
- 3. Tilt/Swivel Base : You can separate the base from the monitor.



Connecting Your Monitor



- 1. Connect the power cord for your monitor to the power port on the back of the monitor. Plug the power cord for the monitor into a nearby outlet.
- 2. Connect the end of the signal cable to your computer's video port (video board, video card or graphics card).
- If you are using a Macintosh computer, connect the cable to a Macintosh adapter, and set the pins on your adapter(Adapter not included).
 A PC-compatible computer does not need an adapter.

Note Turn on your computer and monitor. If your monitor displays an image, installation is complete.



Note

When prompted by the operating system for the monitor driver, insert the CD-ROM 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.

Prepare a blank disk and download the driver program file at the Internet web site shown here.

 Internet web site : http://www.samsung-monitor.com/ (Europe) http://www.samsungmonitor.com/ (USA) http://www.sec.co.kr/ (Korea) http://www.samsungmonitor.com.cn/ (China)

Windows ME/98/95

- 1. Insert CD into the CD-ROM driver.
- 2. Click "Windows ME/98/95 Driver".

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Windows ME/98/95 Driv	
Windows ME/98/95 Driv	

3. Choose your monitor model in the model list, then click the "OK" button.

Samsung Monitor Setup for Windows ME/98/95	×
Pick the display adapter which you want to install the monitor	r
S3 Inc. Savage4	à.
SJ Inc. Savage4	1
Pick the monitor which you want to install	
SyncMaster 703DFX/753DFX	1
SyncMaster 753DF[X]/703DF[X]/783DF[X], MagicSyncMaster	9
SyncMaster 755DF[X]	
	1
Cancel	

4. Click the "Install" button in the "Warning" window.



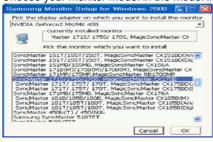


Windows XP/2000

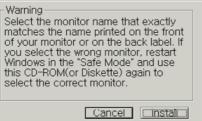
- 1. Insert CD into the CD-ROM driver.
- 2. Click "Windows XP/2000 Driver".



3. Choose your monitor model in the model list, then click the "OK" button.



4. Click the "Install" button in the "Warning" window.



5. If you can see following **"Message"** window, then click the **"Continue Anyway"** button. Then click **"OK"** button.

Hardwa	re Installation
1	The software you are installing for this hardware: SyncMaster 1715/1755/1705, MagicSyncMaster CX1755 has not passed Windows Logo testing to verify its compability with Windows PC. (Eat new Write testing a imposition) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

This monitor driver is under certifying MS logo, and this installation don't damage your system. The certified driver will be posted on Samsung Monitor Homepage http://www.samsung-monitor.com/.

6. Monitor driver installation is completed.



When prompted by the operating system for the monitor driver, insert the CD-ROM Note 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.

Prepare a blank disk and download the driver program file at the Internet web site shown here.

• Internet web site : http://www.samsung-monitor.com/ (Europe) http://www.samsungmonitor.com/ (USA) http://www.sec.co.kr/ (Korea) http://www.samsungmonitor.com.cn/ (China)

Microsoft[®] Windows[®] XP Operating System

- 1.
- Insert CD into the CD-ROM driver. Click "Start" —> "Control Panel" then click the "Appearance and Themes" Icon. 2.
 - 282 park 🖸 - 👔 Dawn 🏠 failes 🔟 Internet Internet Explorer My Documents My Recent D Cutlook Express My Pictures 11CT 10.0 My Music My Computer 311 Paint 100 - C \odot 100 (2) t 💭 Search 3 27 Run. . o Off 🛛 🔯 Turr 🏭 start
- 3. Click "Display" icon and choose the "Settings" tab then click "Advanced..".

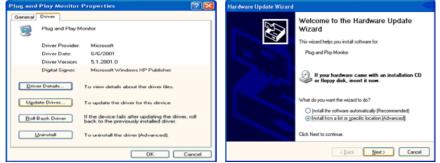
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bi £it par Apriles par (get ∰tal. = 0 - 15 20m/n bin Neter	Themes Desktop Screen Saver Appearance Settings
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Back doden Deads	Display: Play and Play Monitor on 3D Prophet III
 Costes Costes	Color quality Less - Hore Highwat (32 bit) 1024 by 760 pixels Troubleshoot Adgenced

4. Click the "Properties" button on the "Monitor" tab and select "Driver" tab.

Plug and Play Monitor and 3D Prophet III Properties 🛛 🔽 🚺	Plug and Play Monitor Properties	- CC 🔀
Geforce3 Device Selection Correction General Adaget Monitor Troubleshoot Color Management Monitor bype Plug and Play Monitor Plug and Plug and Play Monitor Plug and Play Monitor Plug and Play Monitor Plug and Plug and Play Monitor Plug and Plug and Plug and Play Monitor Plug and Plug	General Driver Image: Plug and Play Monitor Device type: Monitors Manufacturer: (Standard monitor types) Location: on 3D Prophet III Device status This device is working properly. This device is working properly. If you are having problems with this device, click Troubleshoot to start the troubleshooter. Image: Device usage: Troubleshoot	
	Use this device (enable)	×
OK Cancel Apply	ОК	Cancel



5. Click "Update Driver.." and select "Install from a list or.." then click "Next" button.



6. Select "Don't search ,I will ... " then click "Next" and then click "Have disk".

Hardware Update Wizard	Hardware Update Wizard
Please choose your search and installation options.	Select the device driver you want to install for this hardware.
Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.	Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Search removable media (floppy, CD-ROM)	Show compatible hardware
Include this location in the search:	Model
A:\ Bjowse	Phug and Play Monitor
Don't search. I will choose the driver to install.	
Choose this option to select the device driver from a list. Windows does not guarantee that	
the driver you choose will be the best match for your hardware.	This driver is digitally signed. Here why driver isocitant Here why driver isocitant
<back next=""> Cancel</back>	< <u>Rack</u> Next> Cancel

 Click the "Browse" button then choose A:(D:\Driver) and choose your monitor model in the model list and click the "Next" button.

Install F	rom Disk		Hardware Update Wizard
1	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel	Select the device driver you want to install for this hardware. Image: Comparison of the select the sel
	Copy manufacturer's files from:		This driver is not digitally signed! Iel me why driver isoning is important
		Browse	<back next=""> Cancel</back>

8. If you can see following "Message" window, then click the "Continue Anyway" button. Then click "OK" button.





This monitor driver is under certifying MS logo, and this installation don't damage your system. The certified driver will be posted on Samsung Monitor Homepage http://www.samsung-monitor.com/.

9. Click the "Close" button then click "OK" button continually.

remark opeane mitare			
	ompleting the Hardware Update izard		
The	e wizard has finished installing the software for:		
	SyncMaster 1715/ 1755/ 1705, MagicSyncMaster		
Gid	8. Finish to close the wizard.		
	< Back Finish Cancel		
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10. Monitor driver installation is completed.

Microsoft[®] Windows[®] 2000 Operating System

📩 When you can see "Digital Signature Not Found" on your monitor, follow these steps.

- 1. Choose "OK" button on the "Insert disk" window.
- 2. Click the "Browse" button on the "File Needed" window.
- 3. Choose A:(D:\Driver) then click the "Open" button and then click "OK" button.

😂 How to install

- 1. Click "Start", "Setting", "Control Panel".
- 2. Double click the "Display" lcon.
- 3. Choose the "Settings" tab and then click "Advanced..".
- 4. Choose "Monitor".
 - Case1: If the "Properties" button is inactive, it means your monitor is properly configured. Please stop installation
 - Case2: If the "Properties" button is active, click the "Properties" button then follow next steps continually.
- 5. Click "Driver" and then click on "Update Driver.." then click on the "Next" button.
- 6. Choose "Display a list of the known drivers for this device so that I can choose a specific driver" then click "Next" and then click "Have disk".
- 7. Click the "Browse" button then choose A:(D:\Driver).
- 8. Click the "Open" button, then click "OK" button.
- 9. Choose your monitor model and click the "Next" button then click "Next" button.
- 10. Click the "Finish" button then the "Close" button.

If you can see the "**Digital Signature Not Found**" window then click the "**Yes**"button. And click the "**Finish**" button then the "**Close**" button.

Microsoft[®] Windows[®] Millennium Operating System

- Click "Start", "Setting", "Control Panel".
 Double click "Display" icon.
- 3. Select the "Settings" tab and click "Advanced Properties" button.
- 4. Select the "Monitor" tab.
- 5. Click the "Change" button in the "Monitor Type" area.
- 6. Choose "Specify the location of the driver".
- 7. Choose "Display a list of all the driver in a specific location.." then click "Next" button.
- 8. Click the "Have Disk" button
- 9. Specify A:\(D:\driver) then click "OK" button.
- 10. Select "Show all devices" and choose the monitor that corresponds to the one you connected to your computer and click "OK".
- 11. Continue choosing "Close" button and "OK" button until you close the Display Properties dialogue box.

(You can get some other screen for warning message or others, then click the appreciate option for your monitor.)

Microsoft[®] Windows[®] 98 Operating System

- 1. Click "Start", "Setting", "Control Panel".
- 2. Double click "Display" icon.
- 3. Select the "Settings" tab and click "Advanced Properties" button.
- 4. Select the "Monitor" tab.
- 5. Click the "Change" button in the "Monitor Type" area then click "Next" button.
- 6. Choose "Display a list of all the driver.." then click "Next" button.
- 7. Click the "Have Disk" button, then click "browse.." button.
- 8. Specify A:\(D:\driver) then click "OK" button.
- 9. The "Select Device" dialogue box will appear. Select "Show all devices" then choose the monitor that corresponds to the one you connected to your computer and click OK.
- 10. Continue choosing "Close" button and "O.K" button until you close the Display Properties dialogue box.

Microsoft[®] Windows[®] 95 Operating System

First determine the Windows 95 version installed on your computer by right-clicking the My Computer icon on PC and selecting Properties. The version number is listed under System. Perform the steps for the appropriate version.

Version 4.00.950A

- 1. Click Start, Settings, Control Panel, and then double-click "Display" icon.
- 2. In the "Display Properties" window, click the "Settings" tab and click "Change Display Type".
- 3. In the "Change Display Type" window, click "Change" and then click "Have Disk".
- 4. Click "browse.." button and specify A:\(D:\driver) and click "OK".
- 5. In the Select Device window, click the appropriate monitor model and then click OK.
- 6. Continue choosing "Close" button and "OK" button until you close the "Display Properties" dialogue box.

Version 4.00.950B

- 1. Click Start, Settings, Control Panel, and then double-click "Display" icon.
- 2. In the "Display Properties" window, click the Settings tab and then click "Advanced Properties" button.
- 3. In the "Advanced Display Properties" window, click the "Monitor" tab and then click "Change" button.
- 4. In the "Select Device" window, click "Have Disk" button.
- 5. Click "browse.." button and specify A:\(D:\driver) and click "OK".
- 6. In the "Select Device" window, click the appropriate monitor model and then click "OK".



 Continue choosing "Close" button and "OK" button until you close the "Display Properties" dialogue box.

Microsoft[®] Windows[®] NT Operating System

- 1. Click Start, Settings, Control Panel, and then double-click Display icon.
- 2. In Display Registration Information window, click Settings Tab and then click **All Display Modes**.
- Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then click OK.
- 4. Click **Apply** button if you see the screen working normally after clicking Test. If the screen is not normal, change to a different mode (lower mode of resolution, colors or frequency).

Note: If there is no Mode at **All Display Modes**, select the level of resolution and vertical frequency by referring to the Preset Display Modes in the user guide.

Linux Operating System

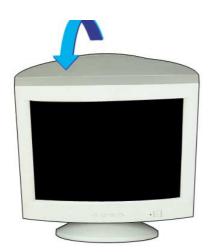
To execute X-Window, you need to make the X86Config file, which is a type of system setting file.

- 1. Press Enter at the first and the second screen after executing the X86Config file.
- 2. The third screen is for setting your mouse.
- 3. Set a mouse for your computer.
- 4. The next screen is for selecting a keyboard.
- 5. Set a Keyboard for your computer.
- 6. The next screen is for setting your monitor.
- 7. First of all, set a **horizontal frequency** for your monitor. (You can enter the frequency directly.)
- 8. Set a vertical frequency for your monitor. (You can enter the frequency directly.)
- 9. Enter the **model name of your monitor**. This information will not affect the actual execution of X-Window.
- 10. You have **finished** setting up your monitor. **Execute** X-Window after setting other requested hardware.

Tilt/Swivel Base Installation

1. Tilt/Swivel Base

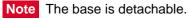
With the built-in pedestal, you can tilt and/or swivel the monitor for the most comfortable viewing angle.













2. Attaching the Base

If your monitor was supplied with the base detached, attach the base as follows.



Remove the twist-tie before attaching the base to the monitor.



1. Place the monitor upside-down on a flat work surface.



2. Align the tabs on the base with the corresponding slots on the bottom of the monitor.



3. Press the base onto the monitor until the tabs are fully engaged in the slots.



 Push the base toward the front of the monitor until the release latch clicks into the locked position.



3. Removing the Base



- 5. Squeeze and pull up on the release latch on the base.
- 6. Push the base toward the back of the monitor and lift up to remove the base.

Note The Base will align with the monitor slots in only one position.



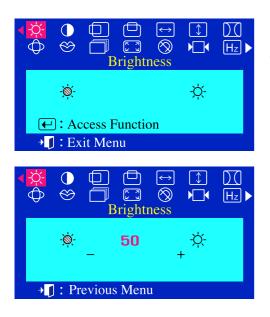


- 1 Use this button to open the OSD and activate a highlighted menu item.
- 2.3 Use these buttons to highlight and adjust items using the On Screen Display. These buttons are also direct access buttons for the contrast and brightness feature.
 - 4 Use this button to Exit the active menu or the OSD.



Menu

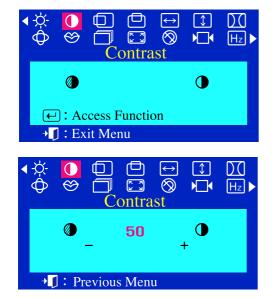
How to adjust



Brightness

Adjust the Brightness.

- With the menu off, push the menu button.
- Push the button or + button until the Brightness screen is displayed.
- **?** Push the menu button to open the **Brightness** adjustment screen.
- **4** Use the + button to increase the brightness or button to decrease the brightness.



Contrast

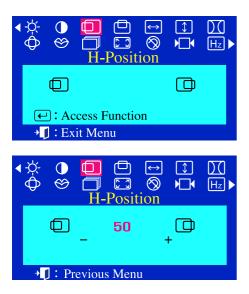
3

Adjust the Contrast.

- ✓ With the menu off, push the menu button.
- Push the button or + button until the Contrast screen is displayed.
 - Push the menu button to open the **Contrast** adjustment screen.
- 4 Use the + button to increase the contrast or button to decrease the contrast.

Menu

How to adjust



H-Position

Follow these instructions to change the Position of the monitor's entire display.

- $\mathbf{7}$ With the menu off, push the menu $\mathbf{4}$ button.
- Push the button or + button until the **H-Position** screen is displayed.
- Push the menu button to open the H-Position adjustment screen.
- **4** Use the and + buttons to change the Horizontal position of the monitor's viewing area.

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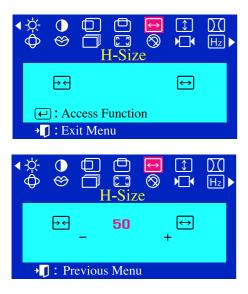
V-Position

Follow these instructions to change the Position of the monitor's entire display.

- With the menu off, push the menu 🔶 button.
- Push the button or + button until the V-Position screen is displayed.
- **3** Push the menu (button to open the **V-Position** adjustment screen.
- 4 Use the and + buttons to change the vertical position of the monitor's viewing area.

Menu

How to adjust



H-Size

Follow these instructions to change the Size of the monitor's entire display.

- With the menu off, push the menu button.
- 2 Push the button or + button until the **H-Size** screen is displayed.
- **3** Push the menu 🕘 button to open the **H-Size** adjustment screen.
- **4** Use the and + buttons to change the Horizontal Size of the monitor's viewing area.

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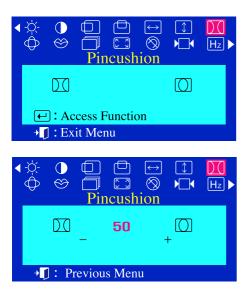
V-Size

Follow these instructions to change the Size of the monitor's entire display.

- With the menu off, push the menu button.
- 2 Push the button or + button until the V-Size screen is displayed.
- **3** Push the menu 🕘 button to open the **V-Size** adjustment screen.
- Use the and + buttons to change the Vertical Size of the monitor's viewing area

Menu

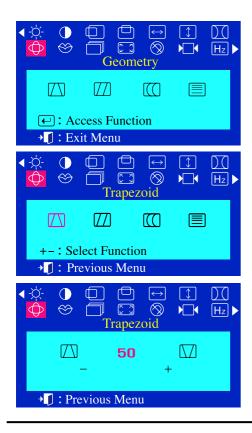
How to adjust



Pincushion

Adjust the pincushion setting when the sides of the display are bowed in or bowed out

- ✓ With the menu off, push the menu button.
- 2 Push the button or + button until the **Pincushion** screen is displayed.
- **3** Push the menu 🕘 button to open the **Pincushion** adjustment screen.
- Use the button or + button to adjust the pincushion setting.

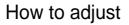


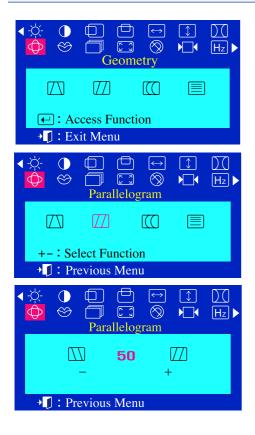
Trapezoid

Adjust the trapezoid setting when the top or bottom of the display is too large or small.

- 7 With the menu off, push the menu ← button.
- Push the button or + button until the Geometry screen is displayed.
- Push the menu button again and then press the or + button until the Trapezoid screen appears.
 Push the menu button to open the Trapezoid adjustment screen.
- 4 Use the button or + button to adjust the trapezoid setting.

Menu



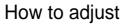


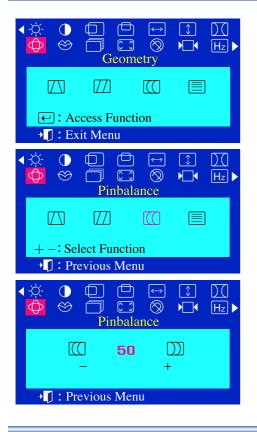
Parallelogram

Adjust the parallelogram setting when the display is leaning left or right.

- ✓ With the menu off, push the menu button.
- 2 Push the button or + button until the **Geometry** screen is displayed.
- Push the menu ← button again and then press the or + button until the Parallelogram screen appears.
 Push the menu ← button to open the Parallelogram adjustment screen.
- **4** Use the button or + button to adjust the parallel setting.

Menu

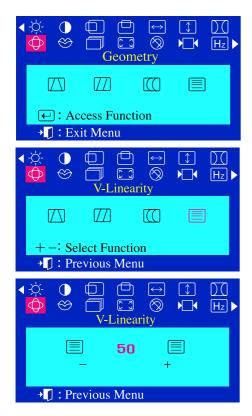




Pinbalance

Adjust the pinbalance setting when the sides of the display are bowed towards the left or right.

- ✓ With the menu off, push the menu button.
- 2 Push the button or + button until the **Geometry** screen is displayed.
- Push the menu button again and then press the or + button until the Pinbalance screen appears.
 Push the menu button to open the Pinbalance adjustment screen.
- 4 Use the button or + button to adjust the pinbalance setting.



V-Linearity

Adjust the linearity setting when the display image is compressed at the left, right or top, bottom.

- 1 With the menu off, push the menu \leftarrow button.
- 2 Push the button or + button until the **Geometry** screen is displayed.
- Push the menu ← button.
 Push the button or + button until the V-Linearity screen is displayed.
 Push the menu ← button to open the V-Linearity adjustment screen.
- **4** Use the button or + button to adjust the vertical linearity.

Menu

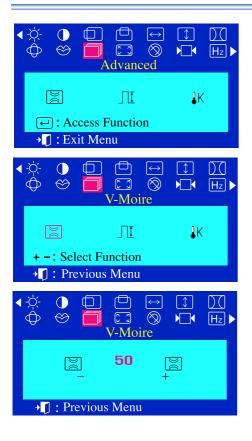
How to adjust



Language

Follow these steps to change the language used in the menu. You can choose one of ten languages. English, German, French, Italian, Portuguese, Spanish, Swedish, Russian, Polish, or Magyar. Some OSD languages may not appear in some areas. 1 With the menu off, push the menu \leftarrow button. Push the - button or + button until the Language 2 screen is displayed. Push the menu 🕒 button to open the Language selection screen. 2 Use the - button or + button to select the language you would like to Ц use. **Note** The language chosen affects only the language of the OSD. It has no effect on any software running on the computer.

Menu



How to adjust

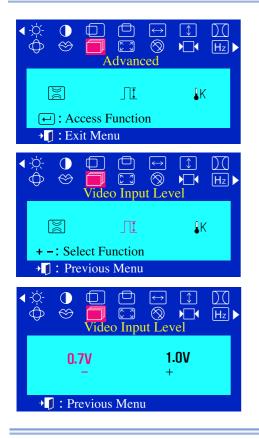
V-Moire

A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the clear moiré adjustments.

- $\mathbf{1}$ With the menu off, push the menu $\mathbf{4}$ button.
- 2 Push the button or + button until the **Advanced** screen is displayed.
- Push the menu button again and then press the or + button until the V-Moire screen appears.
 Push the menu button to open the V-Moire adjustment screen.
- **4** Use the button or + button to adjust vertical moiré.

Menu

How to adjust



Video Input Level

Some video cards use video signals higher than 1.0V which causes the display to be very bright. For those video cards, use this feature to select the 1.0V Level.

- With the menu off, push the menu 🖵 button.
- Push the button or +button until the Advanced screen is displayed.
- Push the menu button again and then press the or + button until the Video Input Level screen appears.
 Push the menu button to open the Video Input Level selection screen.
- Use the button or + button to select 0.7 V or 1.0 V.

\bigcirc Ē 1)(\leftrightarrow K X \otimes \otimes Hz \bigcirc ٦ Advanced M ΠŢ **₿**K (-): Access Function → **]** : Exit Menu \bigcirc (\Box) ſÐ 1 DO \leftrightarrow \bigcirc \otimes \otimes K N Hz Color Temperature ΠŢ ĺΚ + -: Select Function Previous Menu Ð \bigcirc Th. 1)(\bigcirc \otimes \square \otimes K Z Hz Color Temperature 6500K 9300K Frevious Menu

Color Temperature

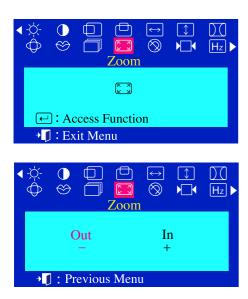
Color temperature is a measure of the "warmth" of the image colors. The available range is between 6500 to 9300K.

- With the menu off, push the menu button.
- Push the button or + button until the Advanced screen is displayed.
- Push the menu button again and then press the or + button until the Color Temperature screen appears.
 Push the menu button to open the Color Temperature selection screen.
 - Press the or + button to select 9300K(Bluish colors) or 6500K(Reddish colors).



Menu

How to adjust



🧅 Zoom

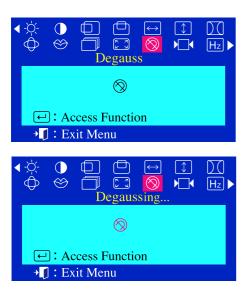
Follow these instructions to get a close-up or a longshot view of the monitor's viewing area.

- 1 With the menu off, push the menu \leftarrow button.
- 2 Push the button or + button until the **Zoom** screen is displayed.
- **3** Push the menu 🕘 button to open the **Zoom** adjustment screen.
- Use the button to decrease the screen viewing area.
 Use the + button to enlarge the screen viewing area.

Menu

SAMSUNG DIGITall

'eryone's invited™



How to adjust

Degauss

The Degauss feature will remove color impurities caused by magnetic fields. You can use this function to turn on the power of the monitor

or change the power saving mode to the normal mode. Do not use the Degauss feature more than once within a 30-minute period.

- ✓ With the menu off, push the menu ← button.
- 2 Push the button or + button until the **Degauss** screen is displayed.
- 3 Push the menu ← button to execute the degauss function. The degaussing screen will appear.
- **Note** The monitor may buzz momentarily, the image colors may change and the image will jiggle for a few seconds. These effects are normal.

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Recall

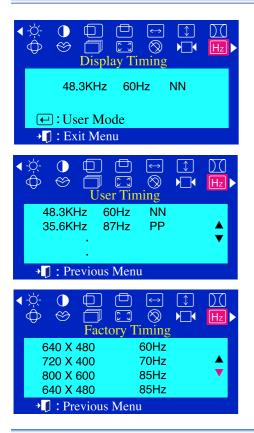
Use the recall feature to reset these monitor settings to their original levels: Position, Size, Pincushion, Trapezoid, Parallelogram, Pinbalance, Rotation, H-Moire and V-Moire.

- ✓ With the menu off, push the menu button.
- Push the button or + button until the Recall screen is displayed.
- **3** Push the menu button to open the **Recall** adjustment screen.
- Push the + button to select Yes. If you don't want to reset the monitor, use the - button to select No.

Note If you have selected "Yes", all settings listed above will be reset. All other settings will remain the same.

CAUTION This operation resets all of the data in the user memory area for the current timing signal.

Menu



How to adjust

Display Timing

The information on this screen shows Display Timing , User Timing and Factory Timing.

- With the menu off, push the menu button.
- Push the button or + button until the **Display Timing** screen is displayed.
- **?** Push the menu 🕘 button to open the **Display Timing** adjustment screen.
- Use the button to see user control mode and thedefault mode.

Note You can see the frequency(user control mode) used by the user, the polarity of the operational signals, the default frequency(default mode) set when you buy the monitor and the resolution level.

Control Lock	
Locked	

 Control Lock	
Unlocked	

OSD Lock/Unlock

- Push and hold in the menu → button for 10 seconds or more to Lock the OSD.
 (In this case, even if you click the menu → button the control screen will not be printed.)
- Push and hold in the menu button for 10 seconds or more to Unlock the OSD.

Chek List

Note Before calling for service, check the information in this section to see if you can solve the problem yourself. If you do need assistance, please call the phone number on the warranty card, the phone number on the Information section or contact your dealer.

Symptom	Chek List	Solution	
No images on the screen. I cannot	Is the power cord connected properly?	Check the power cord connection and supply.	
turn on the monitor.	Can you see "No Connection, Check Signal Cable" on the screen?	Check the signal cable connection.	
	If the power is on, reboot the computer to see the initial screen(the login screen), which can be seen.	• If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows 98/95) and then change the frequency of the video card.(Refer to the Preset Display Modes)	
		 Note: If the initial screen (the login screen) does not appear, contact a service center or your dealer. 	
	Can you see "Sync. Out of Range" on the screen?	• You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can properly handle.	
		 Adjust the maximum resolution and frequency applicable to the monitor. 	
	There is no image on the screen.Is the power indicator on the monitor blinking at 1 second intervals?	 The monitor is in PowerSave mode. Press a key on the keyboard or move the mouse to activate the monitor and restore the image on the screen. 	
I cannot see the On Screen Display.	Have you locked the On Screen Display (OSD) Menu to prevent changes?	 Unlock the OSD by pressing the MENU button for at least 10 seconds. 	

Symptom	Chek List	Solution	
The image on the screen is shaking.	Check the monitor configuration to see if it is in Interlace Mode. (Interlace Mode: Vertical frequency 43Hz, 87Hz(i), etc)	• The signal from the video card exceeds the maximum resolution and frequency of the monitor.	
	Are there any magnetic products such as a high voltage wire near by?	 Move the monitor away from anything that can create a strong magnetic field. 	
	Is the voltage stable?	• The screen image can appear to shake or vibrate at a particular time of day due to low supply voltage.	
	The screen image can also appear to shake or vibrate if there is a problem with the video card or the computer's main board.		
The screen shows strange colors or	Is the screen displaying only one	 Check the signal cable connection. 	
just black and white.	color as if looking at the screen through a cellophane paper?	 Make sure the video card is fully inserted in it's slot. 	
winto.	Have the screen colors become strange after running a program or due to a crash between applications?	 Reboot the computer. 	
	Has the video card been set properly?	 Set the video card by referring to the video card manual. 	
The screen suddenly has become	Have you changed the video card or the driver?	 Adjust screen image position and size using the OSD. 	
unbalanced.	Have you adjusted the resolution or frequency to the monitor?	 Adjust the resolution and frequency at the video card. (Refer to the Preset Display Modes). 	
	The screen can be unbalanced due to the cycle of the video card signals. Readjust Position by referring to the OSD.		
The screen is out of focus or OSD cannot be adjusted.	Have you adjusted the resolution or frequency on the monitor?	 Adjust the resolution and frequency of the video card. (Refer to the Preset Display Modes). 	



Symptom	Chek List	Solution	
The screen is partially distorted.	Are there any magnetic products such as an adapter, speaker or a high voltage wire near the monitor?	 Enter the OSD and perform a 'Degauss'. Keep the monitor away from any magnetic products. 	
LED is blinking but no images on the screen.	Is the frequency properly adjusted when checking the Display Timing on the menu?	 Adjust the frequency properly by referring to the video card manual and the Preset Display Modes. (The maximum frequency per resolution may differ from product to product.) 	
There are only 16 colors shown on the screen. The screen colors have changed after changing the video card.	Have the Windows colors been set properly? Has the video card been set	 For Windows 98(95): Set the colors properly at the Control Panel, Display, Settings. For Windows 3.1: Adjust the colors of the screen using the VGA utility provided by the video card. Set the video card by referring to the 	
	properly?	video card manual.	
There is a message that reads "Unrecognized	Have you installed the monitor driver?	Install the monitor driver according to the Driver Installation Instructions.	
monitor, Plug & Play (VESA DDC) monitor found".	See the video card manual to see if the Plug & Play (VESA DDC) function can be supported.	 Install the monitor driver according to the Driver Installation Instructions. 	

Check the following items if there is trouble with the monitor.

- 1. Check if the power cord and the cable are properly connected to the computer.
- Check if the computer beeps more than 3 times when booting.
 (If it does, request an after-service for the main board of the computer.)
- 3. If you installed a new video card or if you assembled the PC, check if the installed the adapter (video) driver and the monitor driver.
- 4. Check if the scanning ratio of the video screen is set at 75Hz or 85Hz.(Do not exceed 60Hz when using the maximum resolution.)
- 5. If you have problems in installing the adapter (video) driver, boot the computer in Safe Mode, remove the Display Adapter at the "Control Panel, System, Device Administrator" and then reboot the computer to reinstall the adapter (video) driver.

Note If problems repeatedly occur, contact an authorized service center.

Q & A

Question	Answer
How can I change the frequency?	Frequency can be changed by reconfiguring the video card.
	Note that video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)
How can I adjust the resolution?	Windows 95/98: Set the resolution at the Control Panel, Display, Settings.
	Windows 3.1: Change the resolution and the colors using the VGA Utility provided by the video card.
	* Contact the video card manufacturer for details.
How can I set the Power Saving function?	Windows 95/98: Set the function at BIOS-SETUP of the computer or the screen saver. (Refer to Windows/Computer Manual).
	Windows 3.1: Set the function using the VGA Utility provided by the video card.
The monitor makes a sound when it is turned on.	This is normal as some sound may be generated when the metal case and the electromagnet, which are installed to block any electromagnetic waves, interact with each other.
How can I clean the outer case/Picture tube?	Disconnect the power cord and then clean the monitor with a soft cloth, using either a plain water.
	Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor.

Self-Test Feature Check

A self-test feature is provided that allows you to check for proper monitor function. 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:

Self-Test Feature Check

- 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.

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

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.

Self-Test Feature Check

Warning Messages

If there is something wrong with the input signal, a message appears on the screen or the screen goes blank although the power indicator LED is still on. The message may indicate that the monitor is out of scan range or that you need to check the signal cable.



Environment

The location and the position of the monitor may influence the quality and other features of the monitor.

- 1. If there are any woofer speakers near the monitor, unplug and relocate the woofer to another room.
- 2. Remove all electronic devices such as radios, fans, clocks and telephones that are within 3 feet (one meter) of the monitor.
- 3. Degauss the monitor if any devices were removed from the area.

Userful Tip

- A monitor recreates visual signals received from the PC. Therefore, if there is trouble with the PC or the video card, this can cause the monitor to become blank, have poor coloring, noise, Sync. Out of Range, etc. In this case, first check the source of the problem, and then contact a service center or your dealer.
- Judging the monitor's working condition

If there is no image on the screen or an "Sync. Out of Range" message comes up, disconnect the cable from the computer while the monitor is still powered on.

- ♦ If there is a message coming up on the screen or if the screen goes white, this means the monitor is in working condition.
- ♦ In this case, check the computer for trouble.

General Specifications

General		
Model Name	SyncMaster 551v	
Picture Tube		
Туре	15"(38cm) Full square type (35cm viewable)	
Deflection angle	90°	
Dot Pitch	0.24mm(Horizontal)	
Screen type	Aluminized tri-color phosphor dot trio with black matrix.	
	Anti-doming invar shadow mask.Glare/ESF.	
Maximum Resolution		
1024 Dots, 768 Lines @	@68Hz	
Active Display		
Horizontal	267 ± 4 mm	
Vertical	200 ± 4 mm	
Synchronization		
Horizontal	30 ~ 55 kHz	
Vertical	50 ~ 120 Hz	
Input Signal Definition		
Video Signal	RGB, Analog 0.7 Vpp positive at 75 ohms	
Sync Signal	separate H/V sync, TTL level, positive or negative	
Display Color		
Unlimited		
Maximum Pixel Clock		
65MHz		
Power Supply		
90 ~ 264VAC rms, 60/5	50 Hz ± 3Hz	
Power Consumption		
80 W(Max.), 70 W(Non	n.)	
Dimensions (WxDxH)		
356x 380 x 369.5mm (v	with stand)	
Weight		
11.5 kg		
Environmental Considerations		
Operating Temperature 32°F ~ 104°F (0°C ~ 40°C)		
Humidity 10% ~ 80%, non-condensing Storage Temperature -4°F ~ 113°F (-20°C ~ -45°C)		
Humidity $5\% \sim 95\%$, non-condensing		
Plug and Play Capability		
This monitor can be installed on any Plug & Play compatible system. Interaction of the monitor and		
computer systems will provide the best operating conditions and monitor settings. In most cases,		
monitor installation will proceed automatically, unless the user wishes to select alternate settings.		
Note Design and specifications are subject to change without prior notice.		

General Specifications

General			
Model Name	SyncMaster 551s		
Picture Tube			
Туре	15"(38cm) Full square type (35cm viewable)		
Deflection angle	90°		
Dot Pitch	0.24mm (Horizontal)		
Screen type	Aluminized tri-color phosphor dot trio with black matrix.		
	Anti-doming invar shadow mask.		
Maximum Resolution			
1024 Dots, 768 Lines @	268Hz		
Active Display			
Horizontal	267 ± 4 mm		
Vertical	200 ± 4 mm		
Synchronization			
Horizontal	30 ~ 55 kHz		
Vertical	50 ~ 120 Hz		
Input Signal Definition			
Video Signal	RGB, Analog 0.7 Vpp positive at 75 ohms		
Sync Signal	separate H/V sync, TTL level, positive or negative		
Display Color			
Unlimited			
Maximum Pixel Clock			
65 MHz	65 MHz		
Power Supply			
90 ~ 264VAC rms, 60/5	50 Hz ± 3Hz		
Power Consumption			
80W (Maximum), 70W	(Nominal)		
Dimensions (WxDxH)			
356x 380 x 369.5mm (with stand)			
Weight			
11.5 kg			
Environmental Considerations			
Operating Temperature 32°F ~ 104°F (0°C ~ 40°C)			
Humidity 10% ~ 80%, non-condensing Storage Temperature -4°F ~ 113°F (-20°C ~ -45°C)			
Humidity 5% ~ 95%, non-condensing			
Plug and Play Capability			
This monitor can be installed on any Plug & Play compatible system. Interaction of the monitor and			
computer systems will provide the best operating conditions and monitor settings. In most cases,			
monitor installation will proceed automatically, unless the user wishes to select alternate settings.			
Note Design and specifications are subject to change without prior notice.			



Preset Display Modes

If the signal transferred from the computer is the same as the following Preset Display Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjust the screen as follows.

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
VESA, 640 X 480	37.500	75.000	31.500	-/-
VESA, 640 X 480	43.269	85.008	36.000	-/-
VESA, 800 X 600	46.875	75.000	49.500	+/+
VESA, 800 X 600	53.674	85.061	56.250	+/+
VESA, 1024 X 768	48.363	60.004	65.000	-/-

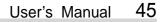


Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle and the inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called Vertical Frequency or Refresh Rate. Unit: Hz





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 monitor automatically returns to normal operation when you move the computer's mouse or press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPMS compliant video card installed in your computer. Use a software utility installed on your computer to set up this feature.

State	Normal Operation	Poweer- off mode EPA/ ENERGY 2000
Power Indicator	Green	Green, Blinking
Power Consumption	70W (Nominal) 80W (Maximum)	Lass than 3W



This monitor is EPA ENERGY STAR [®] compliant and ENERGY2000 compliant when used with a computer equipped with VESA DPMS functionality. As an ENERGY STAR [®] Partner, SAMSUNG has determined that this product meets the ENERGY STAR [®] guidelines for energy efficiency.

Service

U.S.A.

Samsung Computer Products Customer Service 400 Valley Road, Suite 201, Mt. Arlington, NJ 07856 Tel. : (973)601-6000, 1-800-SAMSUNG (1-800-726-7864) Fax. : (973)601-6001

http://samsungmonitor.com/

BRAZIL

Samsung Eletronica da Amazonia Ltda.R. Prof. Manoelito de Ornellas, 303, Terro B Chacara Sto. Antonio, CEP : 04719-040 Sao Paulo, SP SAC : 0800 124 421

http://www.samsung.com.br/

CANADA

Samsung Electronics Canada Inc. 7037 Financial Drive Mississauga, Ontario L5N 6R3 Tel. : 1-800-SAMSUNG (1-800-726-7864) Fax. : (905) 542-1199

http://www.samsung.ca COLOMBIA

Samsung Electronics Colombia Cra 9 No 99A-02 Of. 106 Bogota, Colombia Tel.: 9-800-112-112 Fax: (571) 618 - 2068 http://www.samsung-latin.com/ e-mail : soporte@samsung-latin.com

PANAMA

Samsung Electronics Latinoamerica(Z.L.) S.A. Calle 50 Edificio Plaza Credicorp, Planta Baja Panama Tel. : (507) 210-1122, 210-1133 Tel : 800-3278(FAST) http://www.samsung-latin.com/

PERU

Servicio Integral Samsung Av.Argentina 1790 Lima1. Peru Tel: 51-1-336-8686 Fax: 51-1-336-8551

http://www.samsungperu.com GERMANY

TELEPLAN Rhein-Main GmbH Feldstr. 16 64331 Weiterstadt T. 06151/957-1306 F. 06151/957-1732 http://www.samsung.de/

AUSTRALIA

Samsung Electronics Australia Pty Ltd. Customer Response Centre 7 Parkview Drive, Homebush Bay NSW 2127 Tel : 1300 362 603 http://www.samsung.com.au/

ITALY

Samsung Electronics Italia SpA Via C. Donat Cattin, 5-20063 Cernusco sul Naviglio (Mi) Tel.: 167-010740 http://www.samsung-italia.com

ESPAÑA

Samsung Electronics Comercial Iberica, S.A. Ciencies, 55-65 (Poligono Pedrosa) 08908 Hospitalet de Llobregat (Barcelona) Tel. : (93) 261 67 00 Fax. : (93) 261 67 50 http://samsung.es/

United Kingdom

Samsung Electronics (UK) Ltd. Samsung House, 225 Hook Rise South Surbiton, Surrey KT6 7LD Tel. : (0208) 391 0168 Fax. : (0208) 397 9949 <European Service Center & National Service> Stafford Park 12 Telford, Shropshire, TF3 3BJ Tel. : (0870) 242 0303 Fax. : (01952) 292 033 http://samsungservice.co.uk/

THAILAND

HAI SAMSUNG SERVICE CENTER MPA COMPLEX BUILDING,1st-2nd Floor 175 SOI SUEKSA VIDHAYA SATHON SOI 12 SILOM ROAD , SILOM,BANGRAK BANGKOK 10500 TEL: 0-2635-2567 FAX: 0-2635-2556

SOUTH AFRICA

Samsung Electronics,5 Libertas Road, Somerset Office Park, Bryanston Ext 16. Po Box 70006, Bryanston,2021, South Africa Tel : 0027-11-549-1621 Fax: 0027-11-549-1629 http://www.samsung.co.za

UKRAINE

SAMSUNG ELECTRONICS REPRESENTATIVE OFFICE IN UKRAINE 4 Glybochitska str. Kiev, Ukraine Tel. 8-044-4906878 Fax 8-044-4906887 Toll-free 8-800-502-0000 www.samsung.com.ua

SWEDEN/DENMARK/NORWAY/FINLAND

Samsung Electronics AB Box 713 S-194 27 UPPLANDS VÄSBY SVERIGE Besöksadress : Johanneslundsvägen 4 Samsung support Danmark : 8088-4646 Samsung support Danmark : 8088-4646 Samsung support Norge: 8001-1800 Samsung support Finland: 0800-118001 Tel +46 8 590 966 00 Fax +46 8 590 966 50 http://www.samsung.se

HUNGARY

Samsung Electronics Magyar Rt. 1039, Budapest, Lehel u. 15-17. Tel: 36 1 453 1100 Fax: 36 1 453 1101 http://www.samsung.hu

FRANCE

SAMSUNG ELECTRONICS FRANCE Service Paris Nord 2 66 rue des Vanesses BP 50116 Villepinte 95950 Roissy CDG Cedex Tel : 08 25 08 65 65 Fax: 01 48 63 06 38 http://www.samsungservices.com

PORTUGAL

SAMSUNG ELECTRONICA PORTUGUESA S.A. Rua Mário Dioniso, №2 - 1° Drt. 2795-140 LINDA-A-VELHA Tel. 214 148 114/100 Fax. 214 148 133/128 Free Line 800 220 120 http://www.samsung.pt/

NETHERLANDS/BELGIUM/LUXEMBOURG

Samsung Electronics Benelux B. V. Fleminglaan 12 2289 CP Rijiswijk, NEDERLANDS Service and informatielijn ; Belgium :0800-95214, http://www.samsung.be/ Netherlands : 0800-2295214, http://www.samsung.nl/

CHILE

SONDA S.A Teatinos 550, Santiago Centro, Santiago, Chile Fono: 56-2-5605000 Fax: 56-2-5605353 56-2-800200211 http://www.sonda.com/ http://www.samsung.cl/

MEXICO

Samsung Electronics Mexico S.A. de C.V.Saturno 44 Col. Nueva Industrial Vallejo Del. Gustavo A. Madero C.P. 07700 Mexico D.F. Tel. 01 57 47 51 00 Fax. 01 57 47 52 02 RFC: SEM950215S98 http://www.samsung.com.mx/

SAMSUNG ELECTRONICS MEXICO S.A. DE C.V. **IMPORTADO POR :** SATURNO 44 COL. NVA. INDUSTRIAL VALLEJO DEL. GUSTAVO A. MADERO C.P. 07700 MEXICO D.F. TEL. 5747-5100 RFC: SEM950215S98 **EXPORTADO POR :** SAMSUNG ELECTRONICS CO., LTD. JOONG-ANG DAILY NEWS BLDG. 7 SOON-WHA-DONG CHUNG-KU, C.P.O BOX 2775, 1144 SEOUL, KOREA



Terms

Dot Pitch

The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit: mm

• Vertical Frequency

The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called Vertical Frequency or Refresh Rate. Unit: Hz

Example: If the same light repeats itself 60 times per second, this is regarded as 60 Hz. In this case, flickering of the screen can be detected. To avoid this problem, there is a Flicker-free Mode using a vertical frequency over 70 Hz.

Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

• Interlace and Non-Interlace Methods

Showing the horizontal lines of the screen from the top to the bottom in order is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.

• Plug & Play

This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.

Resolution

The number of horizontal and vertical dots used to compose the screen image is called 'resolution'. This number shows the accuracy of the display. High resolution is good for performing multiple tasks as more image information can be shown on the screen.

Example: If the resolution is 1024 X 768, this means the screen is composed of 1024 horizontal dots (horizontal resolution) and 768 vertical lines (vertical resolution).



Regulatory

FCC Information | IC Compliance Notice | MPR II Compliance European Notice (Europe only) | PCT Notice TCO'95-Ecological requirements for personal computers (TCO applied model only) TCO'99-Ecological requirements for personal computers (TCO applied model only)

• 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 undesire\$ 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 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 Règlemont 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 (Europe only)

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:

- EN55022:1998 Radio Frequency Interference
- EN55024:1998 Electromagnetic Immunity
- EN61000-3-2:1995+A1+A2 Power Line Harmonics
- EN61000-3-3:1995 Voltage Fluctuations
- EN60950 Product Safety.

PCT Notice





• TCO'95-Ecological requirements for personal computers (TCO applied model only)



AB general requirements

AB2 Written Eco-document acompanying the products

Congratulations! You have just purchased a TCO'95 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and to the further development of environmentally- adapted electronic products.

Why do we have environmentally-labelled monitors?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem as far as monitors and other electronic equipment are concerned is that environmentally harmful substances are used both in the products and during their manufacture. Since it has not been possible so far for the majority of electronic equipment to be recycled in a satisfactory way, most of these potentially damaging substances sooner or later enter Nature.

There are also other characteristics of a monitor, such as energy consumption levels, that are important from both the working and natural environment viewpoints. Since all types of conventional electricity generation have a negative effect on the environment (acidic and climate-influencing emissions, radioactive waste, etc.) it is vital to conserve energy. Electronic equipment in offices consumes an enormous amount of energy, since it is often routinely left running continuously.

What does labelling involve?

This product meets the requirements for the TCO'95 scheme, which provides for international environmental labelling of monitors. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Naturskyddsforeningen (The Swedish Society for Nature Conservation) and NUTEK (The National Board for Industrial and Technical Development in Sweden).

The requirements cover a wide range of issues: environment, ergonomics, usability, emission of electrical and magnetic fields, energy consumption and electrical and fire safety.

The environmental demands concern among other things restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons), and chlorinated solvents. The product must be prepared for recycling and the manufacturer is obliged to have an environmental plan, which must be adhered to in each country where the company conducts its operations policy. The energy requirements include a demand that the monitor after a certain period of inactivity shall reduce its power consumption to a lower level, in one or more stages. The length of time to reactivate the monitor shall be reasonable for the user.

Labelled products must meet strict environmental demands, for example in respect of the reduction of electric and magnetic fields, along with physical and visual ergonomics and good usability.

TCO Development Unit 1996-11-29 On the page this folder you will find a brief summary of the environmental requirements met by this product. The complere environmental criteria document may be ordered from: TCO Development Unit S-11494 Stockholm Sweden Fax: +46 8 782 92 07 E-mail (Internet): development@tco.se Current information regarding TCO'95-approved and labelled products may also be obtained via the Internet, using the address: http://www.tco-info.com/ TCO'95 is a co-operative project between(3 logos)



Environmental Requirements

Brominated flame retardants are present in printed circuit boards, cables, wires, casings and housings. In turn, they delay the spread of fire. Up to thirty percent of the plastic in a computer casing can consist of flame retardant substances. These are related to another group of environmental toxins, PCBs, which are suspected to give rise to similar harm, including reproductive damage in fish eating birds and mammals, due to the bioaccumulative processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

• TCO'95 demand requires that plastic components weighing more than 25 grams must not contain organically bound chlorine and bromine.

Lead

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning.

• TCO'95 requirement Permits the inclusion of lead since no replacement has yet been developed.

Cadmium

Cadmium is present in rechargeable batteries and in the colour generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses.

• TCO'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of cadmium. The colour-generating layers of display screens must not contain any cadmium.

Mercury

Mercury is sometimes found in batteries, relays and switches. Mercury damages the nervous system and is toxic in high doses.

• TCO'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of mercury. It also demands that no mercury is present in any of the electrical or electronics components concerned with the display unit.

CFCs (freons)

CFCs (freons) are sometimes used for washing printed circuit boards and in the manufacturing of expanded foam for packaging. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on Earth of ultraviolet light with consequent increased risks of skin cancer (malignant melanoma).

• The relevant TCO'95 requirement: Neither CFCs nor HCFCs may be used during the manufacturing of the product or its packaging.

• TCO'99-Ecological requirements for personal computers (TCO applied model only)



Congratulations!

You have just purchased a TCO'99 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

This product meets the requirements for the TCO'99 scheme which provides for an international environmental and quality labelling labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO(The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen(The Swedish Society for Nature Conservation), Statens Energimyndighet(The Swedish National Energy Administration) and SEMKO AB.

The requirements cover a wide range of issuse: environment, ergonomics, usability, reduction of electric and magnetic fields, energy consumption and electrical safet

Why do we have environmentally labelled computers?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

What does labelling involve?

The environmental demands has been developed by Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation). These demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs(freons)and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user.

Below you will find a brief summary of the environmental requirements met by this product. The complete environmental criteria document may be ordered from:

TCO Development

SE-114 94 Stockholm, Sweden Fax: +46 8 782 92 07 Email (Internet): development@tco.se

Current information regarding TCO'99 approved and labelled products may also be obtained via the Internet, using the address: http://www.tco-info.com/

Environmental requirements

Flame retardants

Flame retardants are present in printed circuit boards, cables, wires, casings and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% of the plastic in a computer casing can consist of flame retardant substances. Most flame retardants contain bromine or chloride, and those flame retardants are chemically related to another group of environmental toxins, PCBs. Both the flame retardants containing bromine or chloride and the PCBs are suspected of giving rise to severe health effects, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative* processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

The relevant TCO'99 demand requires that plastic components weighing more than 25 grams must not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed circuit boards since no substitutes are available.

Cadmium**

Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries, the colour-generating layers of display screens and the electrical or electronics components must not contain any cadmium.

Mercury**

Mercury is sometimes found in batteries, relays and switches. It damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries may not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labelled unit. There is however one exception. Mercury is, for the time being, permitted in the back light system of flat panel monitors as today there is no commercially available alternative. TCO aims on removing this exception when a Mercury free alternative is available.



CFCs (freons)

The relevant TCO'99 requirement states that neither CFCs nor HCFCs may be used during the manufacture and assembly of the product. CFCs (freons) are sometimes used for washing printed circuit boards. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on earth of ultraviolet light with e.g. increased risks of skin cancer (malignant melanoma) as a consequence.

Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning. The relevant TCO'99 requirement permits the inclusion of lead since no replacement has yet been developed.

* Bio-accumulative is defined as substances which accumulate within living organisms.

** Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.

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