



SyncMaster 591s / 591v / 793s / 793v / 783DF / 793DF / 793MB / 795DF / 795MB / 797DF / 997DF

Select Model Name

- Safety Instructions
- Introduction
- Setup
- Adjusting Your Monitor
- Troubleshooting
- Specifications
- Information

Regulatory Manual Adobe Reader

SyncMaster

Natural Color MagicTune™

Install drivers

▶▶ Windows Me Windows 98 ▶▶ Natural Color

▶▶ Windows 2000 Windows XP ▶▶ MagicTune™

Install programs



Notational | **Power** | Installation | Clean | Others

Please read the following safety instructions as they are designed to prevent damage to property and harm to the user.

Warning / Caution



Failure to follow directions noted by this symbol could result in bodily harm or damage to equipment.

Notational Conventions



Prohibited



Important to read and understand at all times



Do not disassemble



Disconnect the plug from the outlet



Do not touch



Grounding to prevent an electric shock

Notational | **Power** | Installation | Clean | Others

Power



When not used for extended periods of time, set your computer to a screen saver.

- If the same image is present for long periods of time, Phosphor Burnt can be occurred, or the screen may be blurred.

-  **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 receptacle.**
 - 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.**
 - This may cause an electric shock or fire.



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



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



- **Do not disconnect the power cord while using the monitor.**
 - A surge may be caused by the separation and may damage the monitor.



- **Do not use the power cord when the connector or plug is dusty.**
 - If the connector or plug of the power cord is dusty, clean it with a dry cloth.
 - Using the power cord with a dusty plug or connector may cause an electric shock or fire.

Installation



- **Put your monitor in a location with low humidity and a minimum of dust.**
 - Failure to do so may cause an electric shock or fire inside the monitor.



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



- **Install the monitor base in a showcase or shelf so that the end of the base does not project beyond the showcase or shelf.**
 - Dropping the product may cause damage to the product or personal injury.



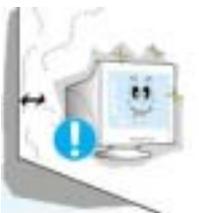
- **Set down the monitor carefully.**
 - The monitor could be damaged or broken.



- **Do not place the monitor face down.**
 - The CDT surface may be damaged.



- **Do not use the monitor without the monitor stand.**
 - It could break down or cause fire due to bad ventilation.
 - If the monitor must be used without the supplied stand, take steps to insure proper ventilation.



- **When installing the product, make sure to keep it away from the wall (more than 10cm/4inch) for ventilation purposes.**
 - Poor ventilation may cause an increase in the internal temperature of the product, resulting in a shortened component life and degraded performance.



- **Keep the plastic packaging (bag) out of children's reach.**
 - The plastic packaging (bag) may cause suffocation if children play with it.

Clean

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.

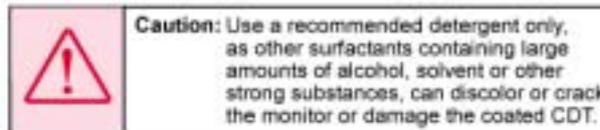


- **Do not spray water or detergent directly on the monitor.**



- **Use the recommended detergent with a smooth cloth.**

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



- **If the connector between the plug and the pin is dusty or dirty, clean it properly with a dry cloth.**

- A dirty connector may cause an electric shock or fire.

Others

- **Do not remove cover (or back).**

- This may cause an electric shock or 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 fire.



❗ **Do not cover the vents on the monitor cabinet.**

- Bad ventilation may cause a breakdown 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 fire.
- If a foreign substance gets into the monitor, disconnect the plug and then [contact a service center](#).



❗ **For each hour of looking at the monitor, you should let your eyes rest for 5 minutes.**

- This will reduce eye fatigue.



❗ **Watching the monitor continuously at a too close angle may result in eyesight damage.**



❗ **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 only the wire or the signal cable.**

- This may cause a breakdown, electric shock or 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 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.



Do not install the product on an unstable, uneven surface or a location prone to vibrations.

- Dropping the product may cause damage to the product or personal injury. Using the product in a location prone to vibrations may shorten the lifetime of the product or may catch fire.



• **Hoidke monitor eemal mistahes magnetilistest esemetest.**

- Need võivad põhjustada värvi muutumist või moonutada kujutist.



• **Ärge paigaldage seadet kõikuvale, ebatasasele pinnale või kohtadesse, kus esineb vibratsiooni.**

- Seadme kukkumine võib põhjustada vigastusi nii seadmele kui ka kasutajale. Seadme kasutamine kohtades, kus esineb vibratsiooni, lühendab toote kasutusiga ja võib põhjustada tulekahju.



Unpacking

Front

Rear

Bottom

Please make sure the following items are included with your monitor.
If any items are missing, [contact your dealer](#).

Unpacking

Monitor and Stand



(Some models include a stand attached.)

Manual



Quick Setup Guide



Warranty Card
(Not available in all
locations)



User's Guide,
Monitor Driver,
Natural Color software

Cable



SyncMaster 997DF

Power Cord

Signal Cable (Option)

• **Stand**



Stand

• **For Multimedia model (Option)**

• **Manual**



User Guide

• **Cable**



Sound Cables(2each)



DC Power Cord

• **Stand**



Multimedia Speaker Stand

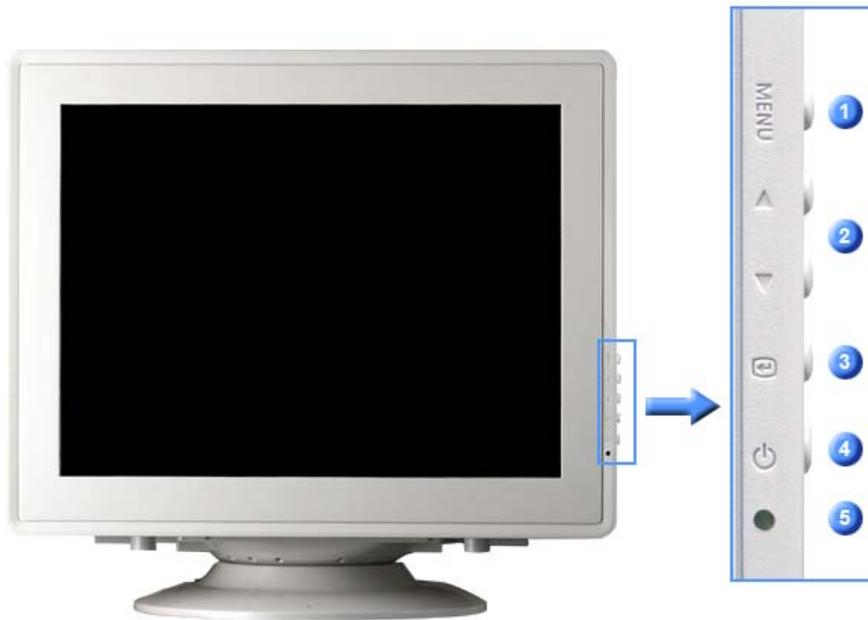
Unpacking

Front

Rear

Bottom

• **Front**



- 1
Menu button [MENU] Opens the OSD menu. Also used to exit the OSD menu or return to the previous menu.
- 2
Adjust buttons [▼/▲] These buttons allow you to highlight and adjust items in the menu.
- 3
Enter button [Ⓜ] Used to select the OSD menu.
- 4
Power button Use this button for turn the monitor on and off.
- 5
Power indicator This light glows green during normal operation, and blinks green once as the monitor saves your adjustments.



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

Rear

General

SyncMaster 591s / 591v / 793s / 793v / 783DF / 793DF /
/997DF / 793MB / 795DF / 795MB / 797DF

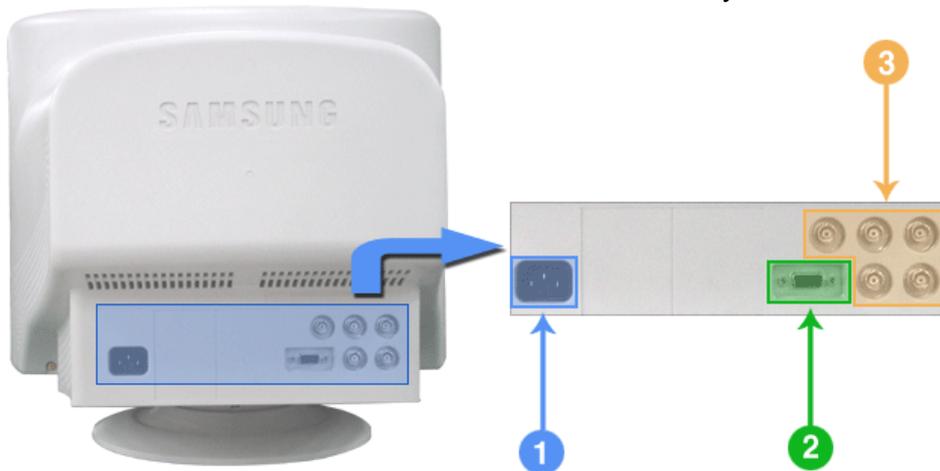


(The configuration at the back of the monitor may vary from product to product.)

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

BNC Connectors (Option)

SyncMaster 997DF



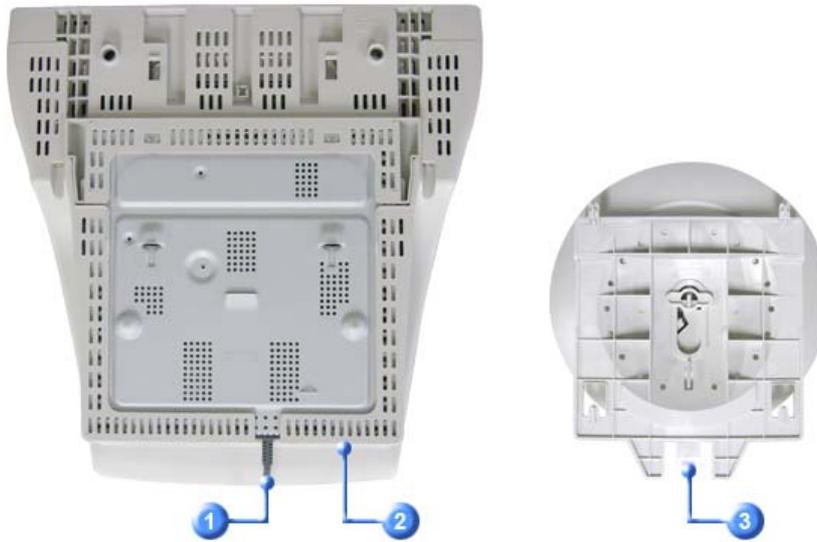
(The configuration at the back of the monitor may vary from product to product.)

- 1 Power port** Connect the power cord for your monitor to the power port on the back of the monitor.
- 2 Signal port** Connect the signal cable to the 15-pin D-sub connector on the back of your monitor.
- 3 BNC Connectors (Option)** Connect the signal cable to the BNC signal port on the back of your monitor.



See [Connecting the Monitor](#) for further information regarding cable connections.

Bottom



1 Signal Cable

Connect the signal cable to the video port on your computer, 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](#).



Unpacking | Front | Rear | Bottom |

Please make sure the following items are included with your monitor.
If any items are missing, [contact your dealer](#).

- Unpacking
 - Monitor and Stand



(Some models include a stand attached.)

• Manual



Quick Setup Guide



Warranty Card
(Not available in all locations)



User's Guide,
Monitor Driver,
Natural Color software

• Cable



Power Cord

• Stand



Stand

• For Multimedia model (Option)

• Manual



User Guide

• Cable



Sound Cables(2each)



DC Power Cord

• Stand



Multimedia Speaker Stand

Unpacking

Front

Rear

Bottom

• Front



- 1 **Menu button [MENU]** Opens the OSD menu. Also used to exit the OSD menu or return to the previous menu.
- 2 **Adjust buttons [▼/▲]** These buttons allow you to highlight and adjust items in the menu.
- 3 **Enter button [Ⓜ]** Used to select the OSD menu.
- 4 **Power button** Use this button for turn the monitor on and off.
- 5 **Power indicator** This light glows green during normal operation, and blinks green once as the monitor saves your adjustments.



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

Unpacking | Front | **Rear** | Bottom

● Rear



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

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



See [Connecting the Monitor](#) for further information regarding cable connections.

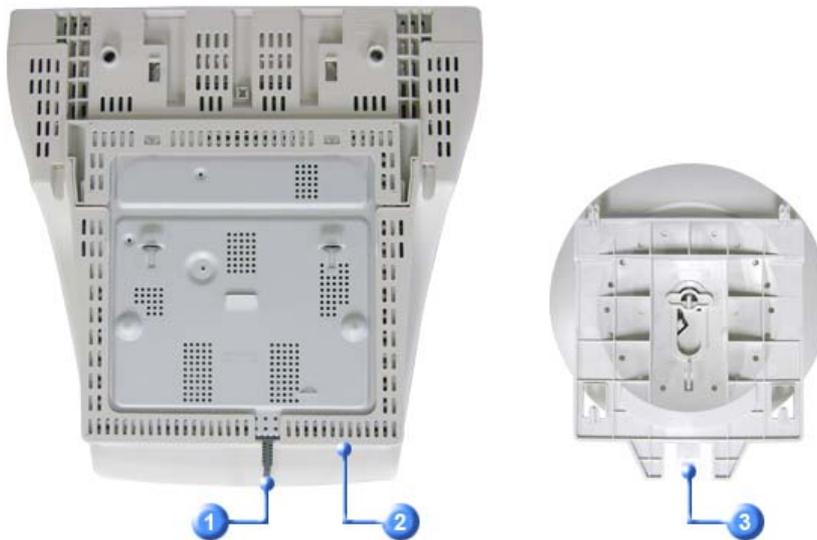
Unpacking

Front

Rear

Bottom

Bottom



- 1 Signal Cable** Connect the signal cable to the video port on your computer, 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.](#)

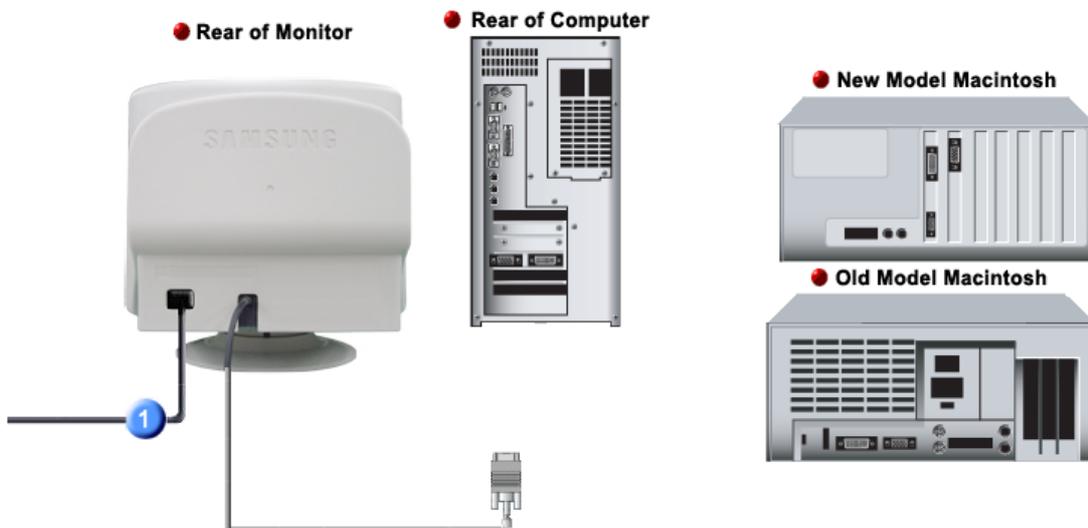


Connecting the Monitor | Base Installation | Installing the Monitor Driver (Automatic) | Installing the Monitor Driver (Manual) | Natural Color

Setup-For Multimedia model | Multimedia Speaker Stand

General | BNC Connectors (Option)

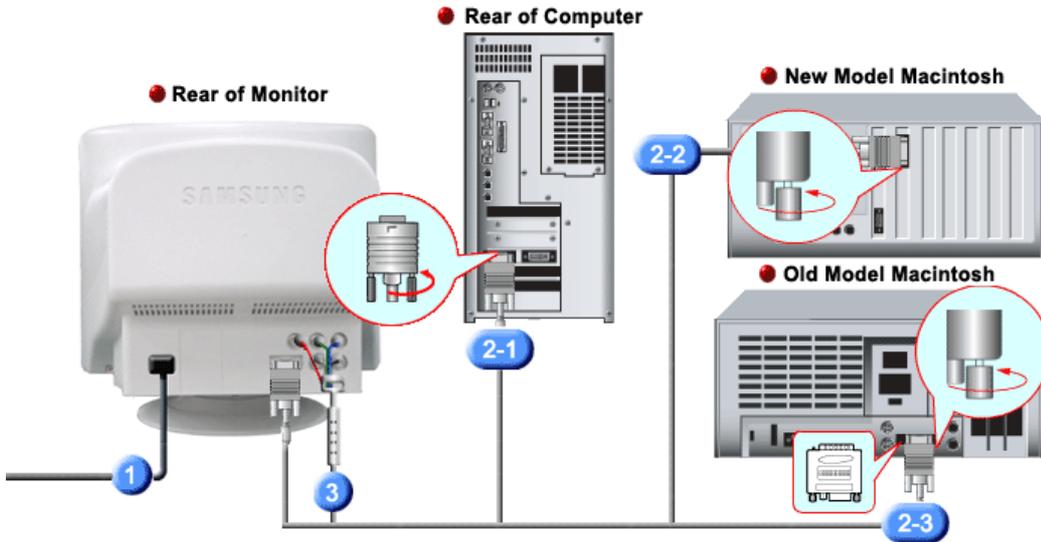
General



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.
- 2-1. Connecting to a computer
Connect the signal cable to the 15-pin, D-sub connector on the back of your monitor.

- 2-2. Connecting to a new Macintosh
Connect the monitor to the Macintosh computer using the D-SUB connection cable.
- 2-3. Connecting to an old Macintosh
Connect your monitor to the Macintosh using the adapter for Macintosh (sold separately).
3. Turn on your computer and monitor. If your monitor displays an image, installation is complete.

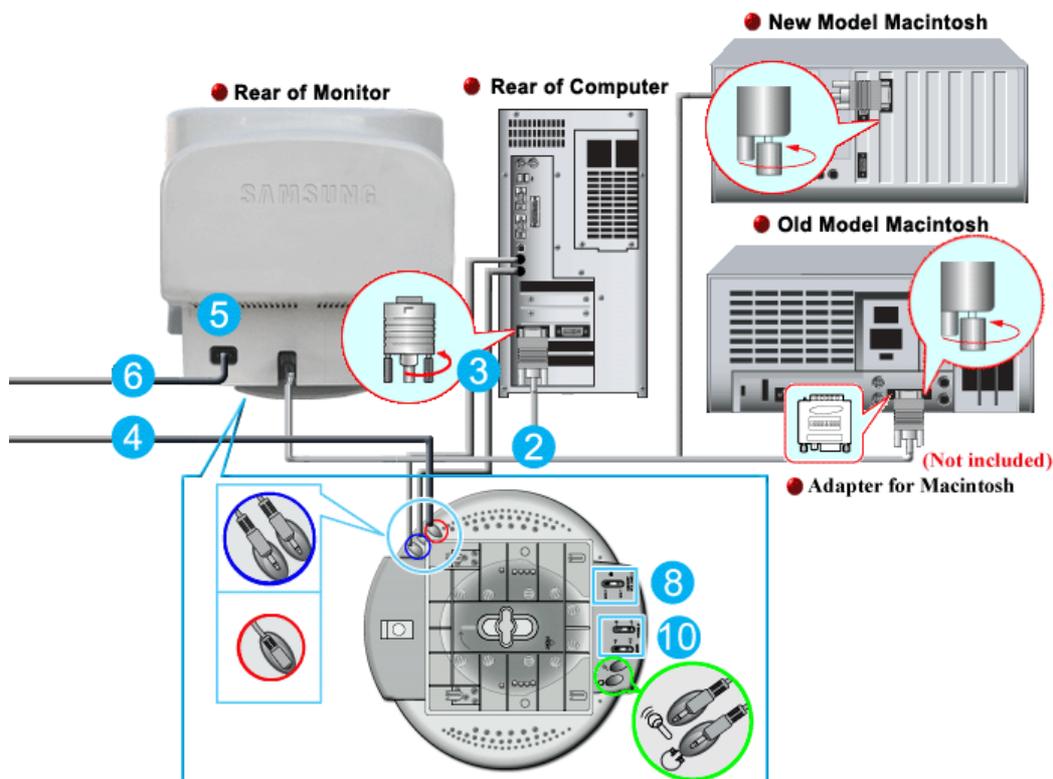
BNC Connectors (Option)



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.
- 2-1. Connecting to a computer
Connect the signal cable to the 15-pin, D-sub connector on the back of your monitor.

- 2-2. Connecting to a new Macintosh
Connect the monitor to the Macintosh computer using the D-SUB connection cable.
- 2-3. Connecting to an old Macintosh
Connect your monitor to the Macintosh using the adapter for Macintosh (sold separately).
3. When you use a BNC connector.
Connect the signal cable to the BNC signal port on the back of your monitor/computer.
4. Turn on your computer and monitor. If your monitor displays an image, installation is complete.

● Setup-For Multimedia model

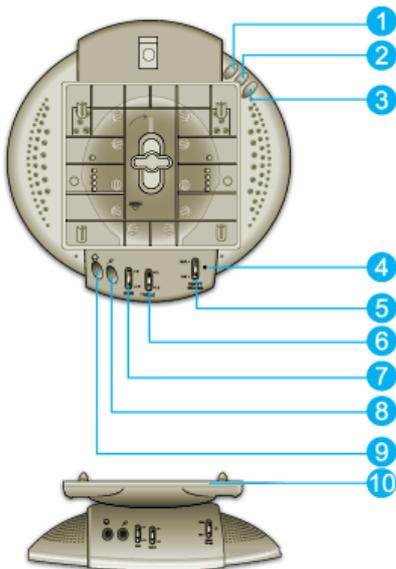


1. Turn off your computer and unplug the power cord.
2. Connect the end of the signal cable to your computer's video port(video board, video card or graphics card).
3. Connect one end of the other sound cable to the Mic Input jack on your sound card or computer. Connect the other end of this cable to the Mic By-pass jack on the back of the monitor stand.
4. Plug the DC power cord from the stand into a nearby outlet.
5. Connect the power cord for your monitor to the power port on the back of the monitor.
6. Plug the power cord for the monitor and the power cord for your computer into a nearby outlet.
7. Turn on your computer and monitor.
8. Turn up or down the On-Off control terminal on the stand of the monitor until it clicks.
9. Execute a sound program, music or sound effect in your computer and then adjust the volume by turning up or down until the sound volume is appropriate.
10. Adjust the treble and bass.



Sound distortion may occur when the monitor is placed on top of a mostly hollow cabinet such as your computer. If this occurs, place a pad or magazine beneath the monitor stand. High sound volume may also cause sound distortion; lower the volume.

Multimedia Speaker Stand



1. **Mic By-pass Jack**
To transmit your voice, connect a sound cable from the Mic By-pass jack to the mic in jack on the sound card slot in your computer.
2. **Stereo Input Jack**
Connect a sound cable from the input source(sound card, computer, CD-ROM drive).
3. **DC Power Cord**
Connect DC power cord to monitor DC 12V output jack.
4. **Power Indicator**
Glows green when the speakers are turned on.
5. **On/Off Volume**
Turns On/Off and adjusts the output volume.
6. **Treble Control**
Use to control high frequencies.
7. **Bass Control**
Use to control low frequencies.
8. **Mic Input Jack**
To transmit your voice, connect a microphone to this jack.
9. **Headphone Jack**
To listen in privacy, connect headphones here.
10. **Detachable Stand Top**

[Connecting the Monitor](#)

Base Installation

[Installing the Monitor Driver \(Automatic\)](#)

[Installing the Monitor Driver \(Manual\)](#)

[Natural Color](#)

[Tilt/Swivel Base](#) | [Attaching and Removing the Base](#)

Tilt/Swivel Base

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



The base is detachable.

● Attaching and Removing 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.



Attaching the Base

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.
4. Push the base toward the front of the monitor until the release latch clicks into the locked position.
* Do not bend the snap.

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.



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

[Connecting the Monitor](#)

[Base Installation](#)

[Installing the Monitor Driver \(Automatic\)](#)

[Installing the Monitor Driver \(Manual\)](#)

[Natural Color](#)



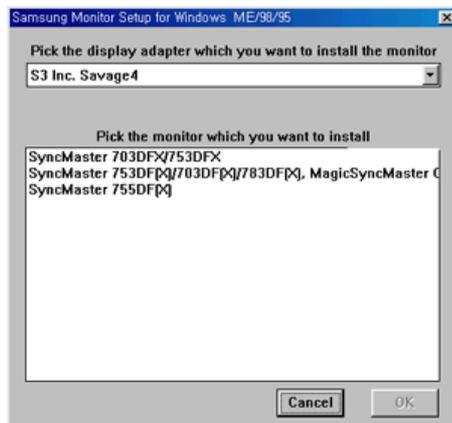
When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions appropriate for the operating system you have.

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

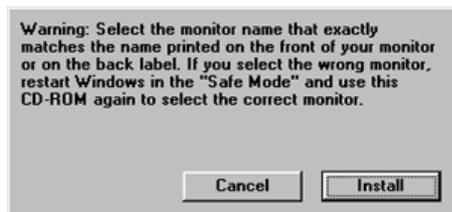
- Internet web site : <http://www.samsung.com/> (Worldwide)
<http://www.samsungusa.com/monitor> (USA)
<http://www.sec.co.kr/monitor> (Korea)
<http://www.samsungmonitor.com.cn/> (China)

Windows ME

1. Insert CD into the CD-ROM drive.
2. Click "**Windows ME 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. Monitor driver installation is completed.

Windows XP/2000

1. Insert CD into the CD-ROM drive.
2. Click **"Windows XP/2000 Driver"**
3. Choose your monitor model in the model list, then click the **"OK"** button.



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



This monitor driver is under certified MS logo and this installation doesn't damage your system. The certified driver will be posted on Samsung Monitor homepage.
<http://www.samsung.com/>.

5. Monitor driver installation is completed.



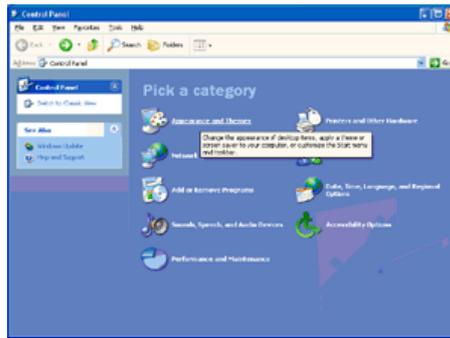
When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions appropriate for the operating system you have.

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

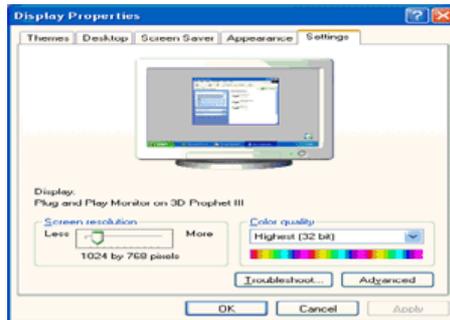
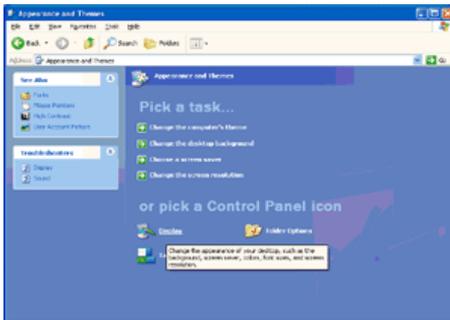
- Internet web site :
 - <http://www.samsung.com/> (Worldwide)
 - <http://www.samsungusa.com/monitor> (USA)
 - <http://www.sec.co.kr/monitor> (Korea)
 - <http://www.samsungmonitor.com.cn/> (China)

Microsoft® Windows® XP Operating System

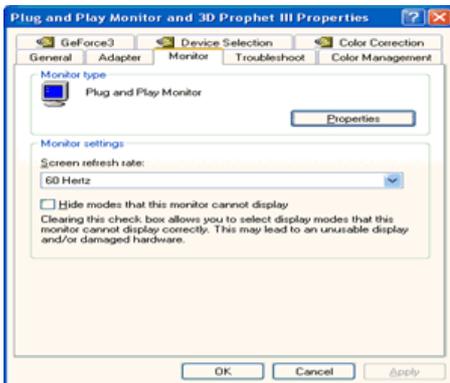
1. Insert CD into the CD-ROM driver.
2. Click **"Start"** → **"Control Panel"** then click the **"Appearance and Themes"** icon.



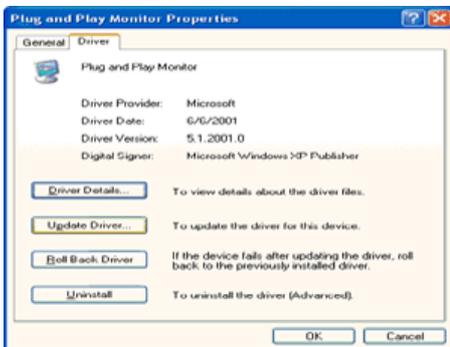
3. Click "**Display**" icon and choose the "**Settings**" tab then click "**Advanced..**".



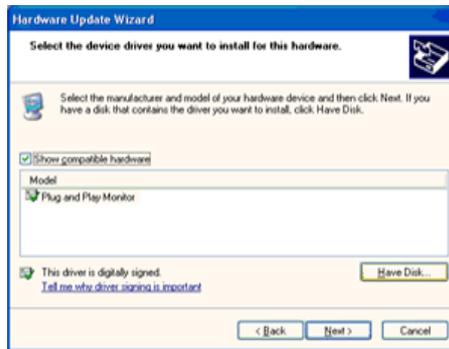
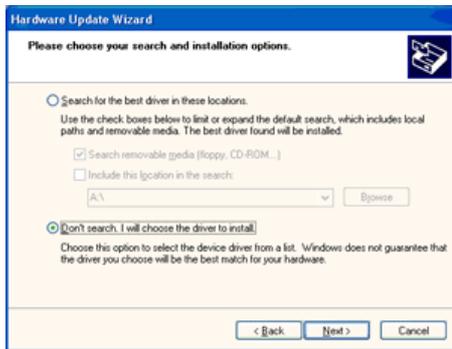
4. Click the "**Properties**" button on the "**Monitor**" tab and select "**Driver**" tab.



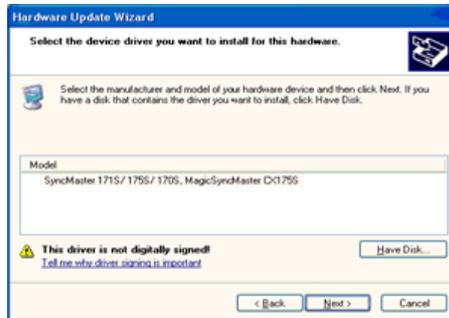
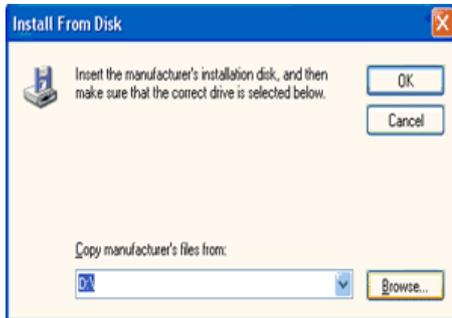
5. Click "**Update Driver..**" and select "**Install from a list or..**" then click "**Next**" button.



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



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



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



This monitor driver is under certified MS logo and this installation doesn't damage your system. The certified driver will be posted on Samsung Monitor homepage.
<http://www.samsung.com/>.

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





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" Icon.
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

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.
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.

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**.
3. 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).
 If there is no Mode at **All Display Modes**, select the level of resolution and vertical frequency by referring to the [Preset Timing 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.

[Connecting the Monitor](#) | [Base Installation](#) | [Installing the Monitor Driver \(Automatic\)](#) | [Installing the Monitor Driver \(Manual\)](#) | [Natural Color](#)

Natural Color

Natural Color Software Program



One of the recent problems in using a computer is that the color of the images printed out by a printer or other images scanned by a scanner or a digital camera are not the same as those shown on the monitor.

The Natural Color S/W is the very solution for this problem. It is a color administration system developed by Samsung Electronics in association with Korea Electronics & Telecommunications Research Institute (ETRI).

This system is available only for Samsung monitors and makes the color of the images on the monitor the same as the printed or scanned images.

For more information, refer to Help (F1) in the software program.

How to install the Natural Color software

Insert the CD included with the Samsung monitor into the CD-ROM Drive. Then, the initial screen of the program Natural Color will be executed. Click Natural Color on the initial screen to install the Natural Color software.

To install the program manually, insert the CD included with the Samsung monitor into the CD-ROM Drive, click the **[Start]** button of Windows and then select **[Execute]**.

Enter D:\color\eng\setup.exe and then press the **<Enter>** key.

(If the drive where the CD is inserted is not D:\, enter the applicable drive.)

How to delete the Natural Color software program

Select **[Setting]/[Control Panel]** on the **[Start]** menu and then double-click **[Add/Delete a program]**.

Select Natural Color from the list and then click the **[Add/Delete]** button.



- 1 Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.
- 2 These buttons allow you to highlight and adjust items in the menu.
- 3 Use to select the OSD menu.

➔ **Brightness**



Menu	Description	Play/Stop
	You can use the on-screen menus to change the brightness according to personal preference. Direct Access Feature : When OSD is not on the screen, push the button to adjust brightness.	
	You can use the on-screen menus to change the contrast according to personal preference.	
	A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the horizontal moire adjustments.	
	A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the vertical moire adjustments.	
	The Degauss feature will remove color impurities caused by magnetic fields.	
	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. Note: If you have selected "Yes", all settings listed above will be reset. All other settings will remain the same.	





Menu	Description	Play/Stop
	Color temperature is a measure of the 'warmth' of the image colors. (6500K / 9300K)	
	Use to adjust the monitor color setting.(Red)	
	Use to adjust the monitor color setting.(Green)	
	Use to adjust the monitor color setting.(Blue)	
sRGB	When you adjust the Brightness and Contrast after sRGB mode is selected, sRGB mode exits.	



Menu	Description	Play/Stop
	Follow these instructions to change the horizontal position of the monitor's entire display.	
	Follow these instructions to change the vertical position of the monitor's entire display.	
	Follow these instructions to change the horizontal size of the monitor's entire display.	

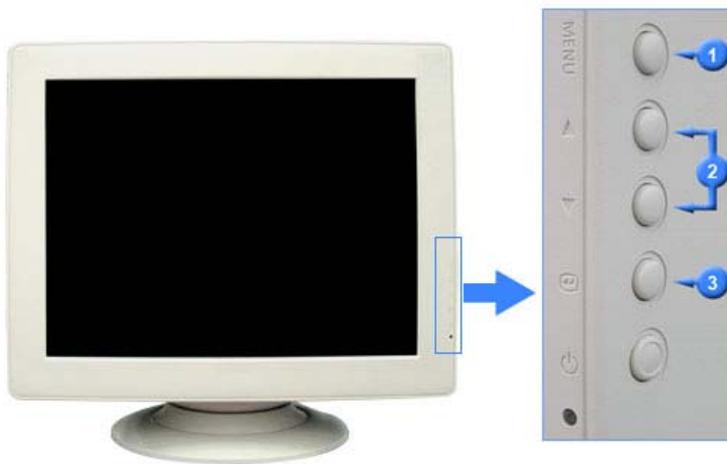
	Follow these instructions to change the vertical size of the monitor's entire display.	
	Adjust the pincushion setting when the sides of the display are bowed in or bowed out.	
	Adjust the pinbalance setting when the sides of the display are bowed towards the left or right.	
	Adjust the trapezoid setting when the top or bottom of the display is too large or small.	
	Adjust the parallelogram setting when the display is leaning left or right.	



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.

Note: These screens do not allow any changes to the settings, they are for information only.





- 1 Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.
- 2 These buttons allow you to highlight and adjust items in the menu.
- 3 Use to select the OSD menu.

➔ **Brightness**



Menu	Description	Play/Stop
	You can use the on-screen menus to change the brightness according to personal preference. Direct Access Feature : When OSD is not on the screen, push the button to adjust brightness.	
	You can use the on-screen menus to change the contrast according to personal preference.	
	A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the horizontal moire adjustments.	
	A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the vertical moire adjustments.	
	The Degauss feature will remove color impurities caused by magnetic fields.	
	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. Note: If you have selected "Yes", all settings listed above will be reset. All other settings will remain the same.	





Menu	Description	Play/Stop
	Color temperature is a measure of the 'warmth' of the image colors. (6500K / 9300K)	
	Use to adjust the monitor color setting.(Red)	
	Use to adjust the monitor color setting.(Green)	
	Use to adjust the monitor color setting.(Blue)	
sRGB	When you adjust the Brightness and Contrast after sRGB mode is selected, sRGB mode exits.	



Menu	Description	Play/Stop
	Follow these instructions to change the horizontal position of the monitor's entire display.	
	Follow these instructions to change the vertical position of the monitor's entire display.	
	Follow these instructions to change the horizontal size of the monitor's entire display.	

	Follow these instructions to change the vertical size of the monitor's entire display.	
	Adjust the pincushion setting when the sides of the display are bowed in or bowed out.	
	Adjust the pinbalance setting when the sides of the display are bowed towards the left or right.	
	Adjust the trapezoid setting when the top or bottom of the display is too large or small.	
	Adjust the parallelogram setting when the display is leaning left or right.	
	Adjust the rotation setting when the entire display is tilted left or right.	



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.

Note: These screens do not allow any changes to the settings, they are for information only.





- 1 Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.
- 2 These buttons allow you to highlight and adjust items in the menu.
- 3 Use to select the OSD menu.

➔ **Brightness**



Menu	Description	Play/Stop
	You can use the on-screen menus to change the brightness according to personal preference. Direct Access Feature : When OSD is not on the screen, push the button to adjust brightness.	
	You can use the on-screen menus to change the contrast according to personal preference.	
	A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the horizontal moire adjustments.	
	A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the vertical moire adjustments.	
	The Degauss feature will remove color impurities caused by magnetic fields.	
	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. Note: If you have selected "Yes", all settings listed above will be reset. All other settings will remain the same.	





Menu	Description	Play/Stop
	Color temperature is a measure of the 'warmth' of the image colors. The available range is between 5000 to 9300K.	
	Use to adjust the monitor color setting.(Red)	
	Use to adjust the monitor color setting.(Green)	
	Use to adjust the monitor color setting.(Blue)	
sRGB	When you adjust the Brightness and Contrast after sRGB mode is selected, sRGB mode exits.	



Menu	Description	Play/Stop
	Follow these instructions to change the horizontal position of the monitor's entire display.	
	Follow these instructions to change the vertical position of the monitor's entire display.	
	Follow these instructions to change the horizontal size of the monitor's entire display.	

	Follow these instructions to change the vertical size of the monitor's entire display.	
	Adjust the pincushion setting when the sides of the display are bowed in or bowed out.	
	Adjust the pinbalance setting when the sides of the display are bowed towards the left or right.	
	Adjust the trapezoid setting when the top or bottom of the display is too large or small.	
	Adjust the parallelogram setting when the display is leaning left or right.	
	Adjust the rotation setting when the entire display is tilted left or right.	
	Adjust the side pin corner correction when the top or bottom of the display is too large or small.	



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.

Note: These screens do not allow any changes to the settings, they are for information only.





- 1 Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.
- 2 These buttons allow you to highlight and adjust items in the menu.
- 3 Use to select the OSD menu.

➔ **Brightness**



Menu	Description	Play/Stop
	You can use the on-screen menus to change the brightness according to personal preference. Direct Access Feature : When OSD is not on the screen, push the button to adjust brightness.	
	You can use the on-screen menus to change the contrast according to personal preference.	
	A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the horizontal moire adjustments.	
	A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the vertical moire adjustments.	
	The Degauss feature will remove color impurities caused by magnetic fields.	
	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. Note : If you have selected "Yes", all settings listed above will be reset. All other settings will remain the same.	
	(Option) Use this menu to choose between the signal source connected to the BNC connector input and the signal source connected to the D-SUB connector input. Note : When you are finished, wait for a few seconds and the screen will blank then display the image from the new signal source(other computer). A cable must be connected to both inputs to use this function.	





Menu	Description	Play/Stop
	Color temperature is a measure of the 'warmth' of the image colors. The available range is between 5000 to 9300K.	
	Use to adjust the monitor color setting.(Red)	
	Use to adjust the monitor color setting.(Green)	
	Use to adjust the monitor color setting.(Blue)	
sRGB	When you adjust the Brightness and Contrast after sRGB mode is selected, sRGB mode exits.	



Menu	Description	Play/Stop
	Follow these instructions to change the horizontal position of the monitor's entire display.	
	Follow these instructions to change the vertical position of the monitor's entire display.	
	Follow these instructions to change the horizontal size of the monitor's entire display.	

	Follow these instructions to change the vertical size of the monitor's entire display.	
	Adjust the pincushion setting when the sides of the display are bowed in or bowed out.	
	Adjust the pinbalance setting when the sides of the display are bowed towards the left or right.	
	Adjust the trapezoid setting when the top or bottom of the display is too large or small.	
	Adjust the parallelogram setting when the display is leaning left or right.	
	Adjust the rotation setting when the entire display is tilted left or right.	
	Adjust the side pin corner correction when the top or bottom of the display is too large or small.	



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.

Note: These screens do not allow any changes to the settings, they are for information only.





- 1 Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.
- 2 These buttons allow you to highlight and adjust items in the menu.
- 3 Use to select the OSD menu.
- a MagicBright2™ is a new feature providing optimum viewing environment depending on the contents of the image you are watching.

➔ **Brightness**



Menu	Description	Play/Stop
	You can use the on-screen menus to change the brightness according to personal preference. Direct Access Feature : When OSD is not on the screen, push the button to adjust brightness.	
	You can use the on-screen menus to change the contrast according to personal preference.	
	A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the horizontal moire adjustments.	
	A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the vertical moire adjustments.	
	The Degauss feature will remove color impurities caused by magnetic fields.	
	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. Note: If you have selected "Yes", all settings listed above will be reset. All other settings will remain the same.	





Menu	Description	Play/Stop
	Color temperature is a measure of the 'warmth' of the image colors. (6500K / 9300K)	
	Use to adjust the monitor color setting.(Red)	
	Use to adjust the monitor color setting.(Green)	
	Use to adjust the monitor color setting.(Blue)	
sRGB	When you adjust the Brightness and Contrast after sRGB mode is selected, sRGB mode exits.	



Menu	Description	Play/Stop
	Follow these instructions to change the horizontal position of the monitor's entire display.	
	Follow these instructions to change the vertical position of the monitor's entire display.	
	Follow these instructions to change the horizontal size of the monitor's entire display.	

	Follow these instructions to change the vertical size of the monitor's entire display.	
	Adjust the pincushion setting when the sides of the display are bowed in or bowed out.	
	Adjust the pinbalance setting when the sides of the display are bowed towards the left or right.	
	Adjust the trapezoid setting when the top or bottom of the display is too large or small.	
	Adjust the parallelogram setting when the display is leaning left or right.	
	Adjust the rotation setting when the entire display is tilted left or right.	



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.

Note: These screens do not allow any changes to the settings, they are for information only.



Overview

What is MagicTune™ ?

Monitor performance can vary due to the graphics card, host computer lighting conditions and other environmental factors. In order to get the best image on a monitor requires you to adjust it for your unique setting. Unfortunately, the manual controls available to tune the image often prove to be challenging. Proper adjustment (tuning) requires an easy to use program that goes through a step-by-step process to obtain the best overall picture quality.

In most cases even simple adjustments to Brightness, or Contrast require navigation of the multi-level, on-screen display (OSD) menus that are not easy to understand. Furthermore, there is no feedback to assist in correctly setting the controls of the monitor. MagicTune is a software utility that guides you through the tuning process with easy to understand instructions and back ground patterns designed for each monitor control.



Basic Functionality

MagicTune is a software utility that allows monitor adjustment and color tuning using the [Display Data Channel Command Interface \(DDC/CI\)](#) protocol. All adjustments to the display are controlled via software to eliminate the need to use the monitor on-screen display (OSD). MagicTune supports Windows 98SE, Me, 2000, NT, XP Home, and XP Professional.

MagicTune allows for quick accurate tuning of the display with the ability to easily save and use monitor configurations that are best suited for you.



OSD Mode

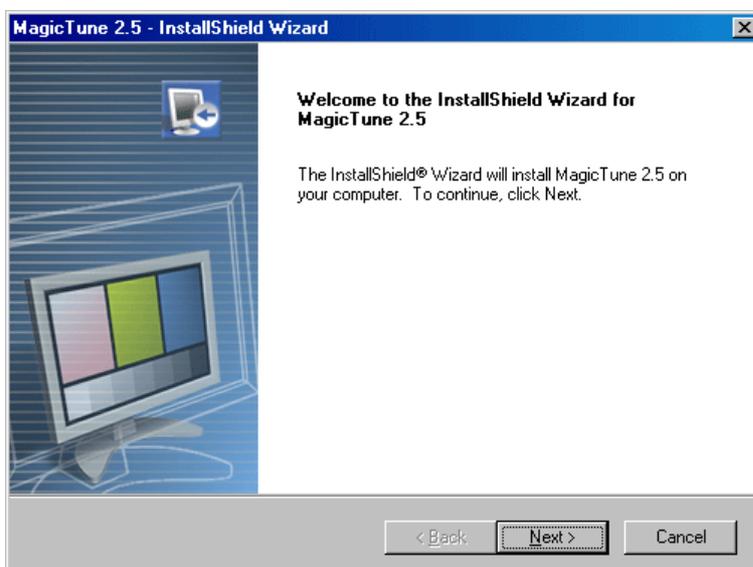
The OSD mode allows easy adjustment of monitor settings without taking pre-defined steps. You can access the desired menu item to set with ease.

Installation

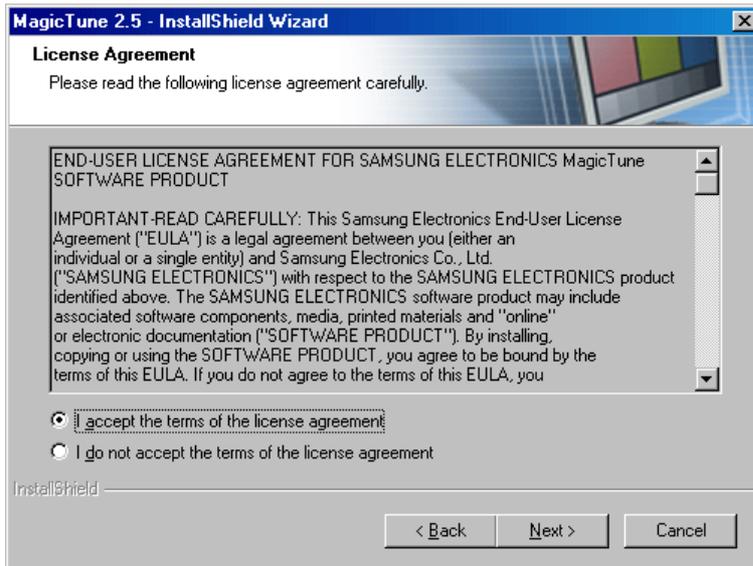
1. Insert the installation CD into the CD-ROM drive.
2. Click the MagicTune™ installation file.
3. Select installation Language, Click "Next".



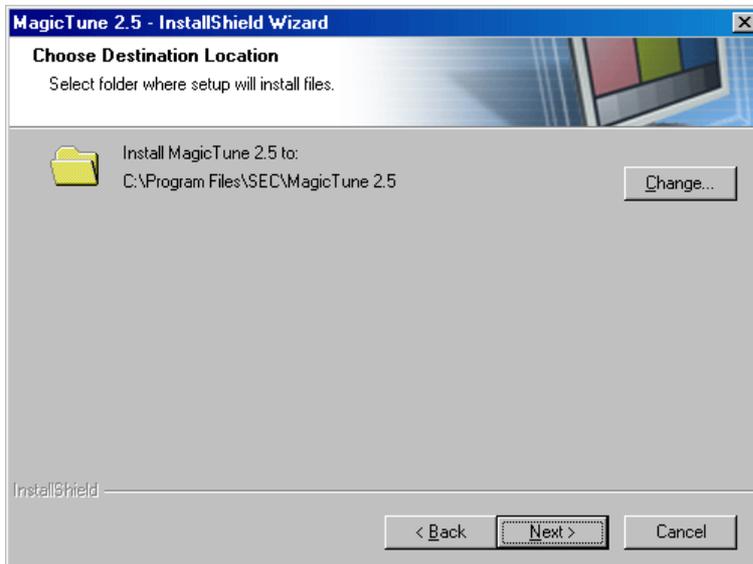
4. When the InstallShield Wizard window appears, click "Next."



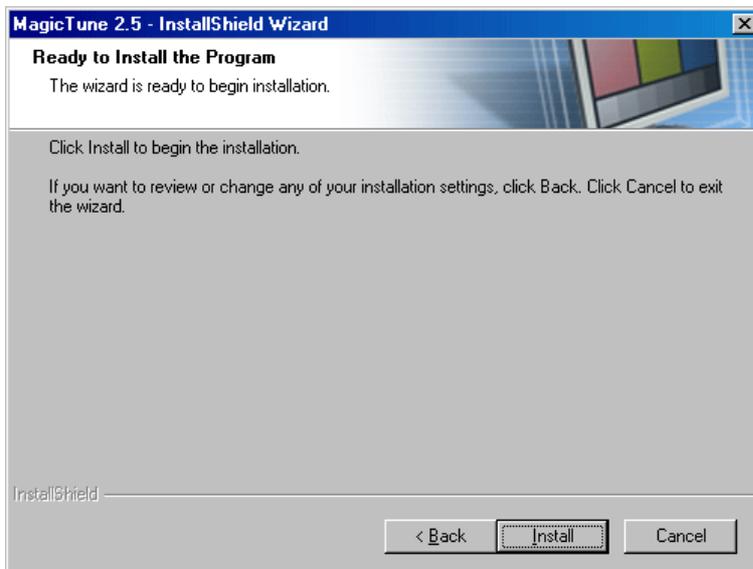
5. Select "I agree to the terms of the license agreement" to accept the terms of use.



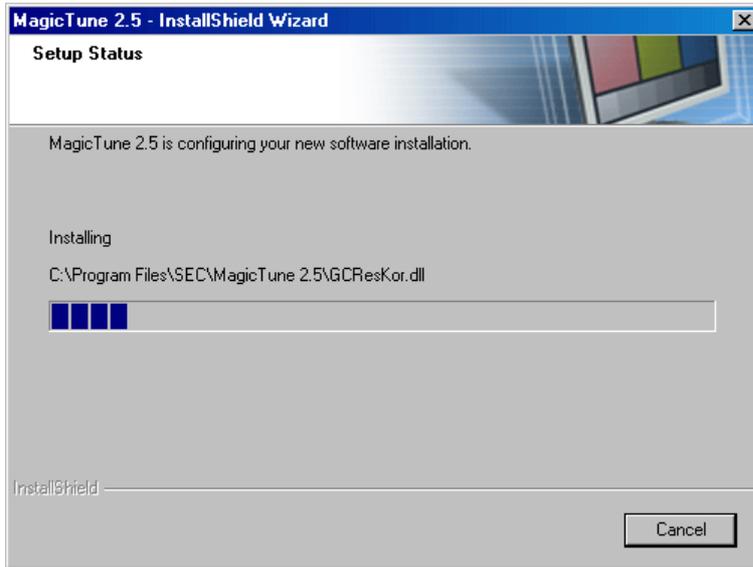
6. Choose a folder to install the MagicTune program.



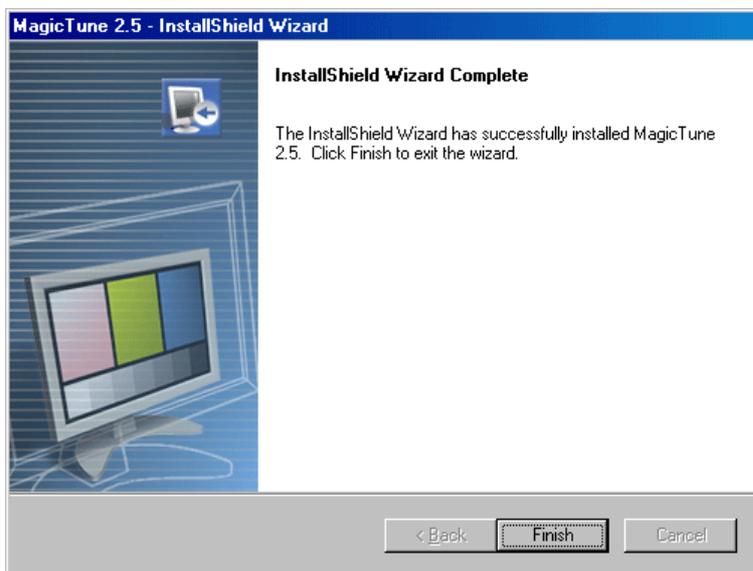
7. Click "Install."



8. The "Installation Status" window appears.



- Click "Finish."



- When the installation is complete, the MagicTune 2.5 executable icon appears on your desktop.



Double-click the icon to start the program.



MagicTune execution icon may not appear depending on specification of computer system or monitor. If that happens, press F5 Key.

- The following window appears if the installation is successful.



12. The following error message indicates that the system is using a video card that is not supported by MagicTune.



? Installation Problems

The installation of MagicTune™ 2.5 can be affected by such factors as the video card, motherboard and the network environment.

See "[Troubleshooting](#)" if you have trouble during installation.

i System Requirements

OS

- Windows 98 SE
- Windows Me
- Windows NT
- Windows 2000
- Windows XP Home Edition
- Windows XP Professional

Hardware

- 32MB Memory above
- 25MB Hard disk space above

* For more information, visit the MagicTune [website](#).

MagicTune allows for quick accurate tuning of the display with the ability to easily save and use monitor configurations that are best suited for you.



- **OSD mode may appear inconsistent with the explanation in guidance book depending on specification of each monitor.**

OSD Mode



The OSD mode makes the adjustment of settings on all monitors easy. When selected, each tab on top of the control window displays the general descriptions of the sub-menu items for adjustment. When selected, each tab displays a list of menus. For quick adjustment of the monitor settings, the OSD mode allows easy and convenient access to all tabs and sub-menu items.

Button Tab Definition

OK Applies any changes made and exits MagicTune.

Reset Restores the monitor values displayed on the active control window to the manufacturer-recommended values.

Exits MagicTune without applying the changes made. If you have

Cancel not made any changes in the control window, clicking "Cancel" does not cause any actions.



Picture Tab Definition

Allows the user to adjust the screen settings to the desired values.



Brightness Contrast MagicBright



Brightness

Makes the entire screen brighter or darker. The detailed data of the images in the dark areas can be lost if the brightness is not adjusted to the proper level. Adjust the brightness for best viewing conditions.

Contrast

Adjusts the difference in brightness between the bright and dark areas on screen. Determines the crispness of the images.

MagicBright™ is a new feature providing the optimum viewing environment depending on the contents of the image you are watching. Currently four different modes are available. Each mode has its own pre-configured brightness value. You can easily select one of four settings by simply pressing the MagicBright™ control button.

- **19" or above**

1. Text: For documentations or works involving heavy text.
2. Internet: For working with a mixture of images such as text

and graphics.

3. Game: For watching motion pictures such as a Game.
4. Entertain: For watching motion pictures such as a DVD or VCD.

MagicBright™ • Less than 19"

1. Text: For documentations or works involving heavy text.
2. Internet: For working with a mixture of images such as text and graphics.
3. Entertain: For watching motion pictures such as a DVD or VCD.



Color Tab Definition

Adjusts the "warmth" of the monitor background or image color.



Color Tone Color Control



The tone of the color can be changed.

Color Tone

- Warm - Normal - Cool
- Custom

Adjusts of the monitor image color.

You can change the monitor color to your desired color.

Color Control

- R - G - B
- sRGB

Image Tab Definition

Adjusts the Position, Size and Rotation values.



Geometry 1

- Rotation
- Size
- Position

Geometry 2

- Pincushion
- Pinbalance
- Trapezoid
- Parallelogram

Other

- Moire
- Degauss
- Sidepin Corner Top
- Sidepin Corner Bottom
- Pinbalance Corner Top
- Pinbalance Corner Bottom



Adjusts the Position, Size and Rotation values.

Geometry 1

- Position
- Size
- Rotation

Adjusts the Pincushion, Pinbalance, Trapezoid and Parallelogram values.

Geometry 2

- Pincushion
- Pinbalance
- Trapezoid
- Parallelogram

Adjusts the Moire, Degauss, Sidepin Corner, and Pinbalance Corner values.

Other

- Moire
- Degauss
- Sidepin Corner Top
- Sidepin Corner Bottom

- Pinbalance Corner Top
 - Pinbalance Corner Bottom
-



Option Tab Definition

You can configure MagicTune using the following options.



Loads the Preferences Dialog Box. Preferences in use will have an "V" in the check box. To turn on or off any Preference, position the cursor over the box and click.

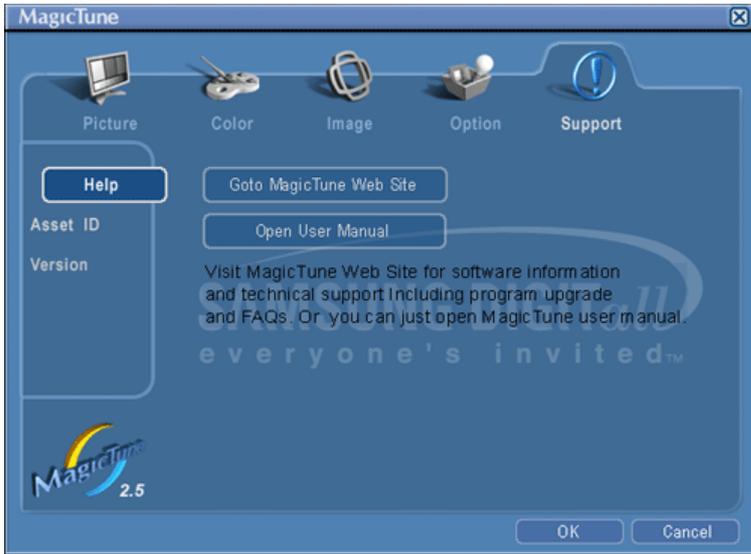
Preferences

- Enable task tray menu .
 - To access the MagicTune menus, click the icon on the [task tray menu].
 - The menus are not displayed if the [Enable System Tray] is deselected in [Options] ' [Preferences].
 - Select Language - The language chosen affects only the language of the OSD.
-



Support Tab Definition

Shows the Asset ID and the version number of the program, and allows you to use the Help feature.



Help Visit the MagicTune website or click to open the Help files (User Manual) if you need any help installing or running MagicTune. The User Manual opens within a basic browser window.

Asset ID Opens a monitor info window showing the manufacturing date of the monitor.

Version Displays the version number of MagicTune.

Uninstall

The MagicTune program can be removed only by using the "Add or Remove Programs" option of the Windows Control Panel.

Perform the following steps remove MagicTune.

1. Go to [Task Tray] ' [Start] ' [Settings] and select [Control Panel] in the menu. If the program runs on Windows XP, go to [Control Panel] in the [Start] menu.
2. Click the "Add or Remove Programs" icon in Control Panel.
3. In the "Add or Remove Programs" screen, scroll down to find "MagicTune." Click on it to highlight it.
4. Click the "Change/Remove" button to remove the program.
5. Click "Yes" to begin the uninstall process.
6. Wait until the "Uninstall Complete" dialog box appears.

Visit the MagicTune [website](#) for technical support for MagicTune, FAQs (questions and answers) and software upgrades.

MagicTune™ HELP

Overview | Installation | OSD Mode | Uninstall | **Troubleshooting**

☐ Troubleshooting

MagicTune may not work in case monitor is replaced or driver of graphic card is updated while MagicTune is operating. If so, please restart the system.

☐ Check when MagicTune does not function properly.

* MagicTune feature is found only on PC (VGA) with Window OS that supports Plug and Play.

*** To check whether your PC is available for MagicTune feature, follow the steps below (When Windows is XP);**

Control Panel -> Performance and Maintenance -> System -> Hardware -> Device Manager -> Monitors -> After deleting Plug and Play monitor, find 'Plug and Play monitor' by searching new Hardware.

Visit the MagicTune [website](#) for technical support for MagicTune, FAQs (questions and answers) and software upgrades.





Before calling for service, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call [the phone number on the Information section](#) or [contact your dealer](#).

Symptom	Check List	Solutions
No images on the screen. I cannot turn on the monitor.	Is the power cord connected properly?	Check the power cord connection and supply.
	Can you see " ? " 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 ME/XP/2000) and then change the frequency of the video card. (Refer to the Preset Timing Modes) Note: If the initial screen (the login screen) does not appear, contact a service center or your dealer .
	Can you see " ? " 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 that the monitor can handle properly.
	There is no image on the screen. Is the power indicator on the monitor blinking at 1 second intervals?	The monitor is in PowerSaver mode. Press any key on the keyboard to activate the monitor and restore the image on the screen.
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 power adapter, speaker or a high	Move the monitor away from anything that can create a strong magnetic field.

	voltage wire near by? 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 just black and white.	Is the screen displaying only one color as if looking at the screen through a cellophane paper?	Check the signal cable connection. Make sure the video card is fully inserted in it's slot.
	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 unbalanced.	Have you changed the video card or the driver?	Adjust screen image position and size using the OSD.
	Have you adjusted the resolution or frequency on the monitor?	Adjust the resolution and frequency of the video card. (Refer to the Preset Timing 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 Timing Modes).
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.
	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 Timing 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?	Windows ME/2000/XP: Set the colors properly at the Control Panel → Display → Settings .
	Has the video card been set properly?	Set the video card by referring to the video card manual.
There is a message that reads "Unrecognized monitor, Plug & Play (VESA DDC) monitor found".	Have you installed the monitor driver?	Install the monitor driver according to the Driver Installation Instructions .
	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 .
MagicTune™ doesn't work properly.	Have you changed your PC or video graphic card?	Download the latest program. The program can be downloaded from the http://www.samsung.com/ .

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

1. Check if the power cord and the video cables are properly connected to the computer.

2. 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 adapter (video) driver and the monitor driver.
4. Check if the scanning ratio of the video screen is set at 50Hz or 120 Hz.
(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.



If problems repeatedly occur, [contact an authorized service center](#).

[Check List](#) | [Q & A](#) | [Self-Test Feature Check](#)

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 ME/XP/2000 : Set the resolution at the Control Panel → Display → Settings . * Contact the video card manufacturer for details.
How can I set the Power Saving function?	Windows ME/XP/2000 : Set the function at BIOS-SETUP of the computer or the screen saver. (Refer to Windows/Computer Manual).
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 cleaning solution or plain water. Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor.

[Check List](#) | [Q & A](#) | [Self-Test Feature Check](#)

Self-Test Feature Check

[Self-Test Feature Check](#) | [Warning Messages](#) | [Environment](#) | [Useful Tips](#)

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly.

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 box in the illustration below.

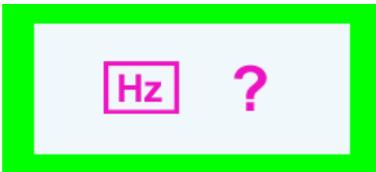


This box appears during normal operation if the video cable becomes disconnected or damaged.

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.

Warning Messages

If there is something wrong with the input signal, the message below 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 sub 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.

Useful Tips

- A monitor recreates visual signals received from the computer. Therefore, if there is trouble with the computer or the video card, this can cause the monitor to become blank, have poor coloring, noise, unavailable video mode, 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 a "**Hz** ?" 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.



SyncMaster 793s,793v,783DF,793DF,793MB,797DF



Check List | Q & A | Self-Test Feature Check



Before calling for service, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call [the phone number on the Information section](#) or [contact your dealer](#).

Symptom	Check List	Solutions
No images on the screen. I cannot turn on the monitor.	Is the power cord connected properly?	Check the power cord connection and supply.
	Can you see " ? " 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 ME/XP/2000) and then change the frequency of the video card. (Refer to the Preset Timing Modes) Note: If the initial screen (the login screen) does not appear, contact a service center or your dealer .
	Can you see " ? " 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 that the monitor can handle properly.
	There is no image on the screen. Is the power indicator on the monitor blinking at 1 second intervals?	The monitor is in PowerSaver mode. Press any key on the keyboard to activate the monitor and restore the image on the screen.
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 power adapter, speaker or a high	Move the monitor away from anything that can create a strong magnetic field.

	voltage wire near by? 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 just black and white.	Is the screen displaying only one color as if looking at the screen through a cellophane paper?	Check the signal cable connection. Make sure the video card is fully inserted in it's slot.
	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 unbalanced.	Have you changed the video card or the driver?	Adjust screen image position and size using the OSD.
	Have you adjusted the resolution or frequency on the monitor?	Adjust the resolution and frequency of the video card. (Refer to the Preset Timing 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 Timing Modes).
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.
	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 Timing 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?	Windows ME/2000/XP: Set the colors properly at the Control Panel → Display → Settings .
	Has the video card been set properly?	Set the video card by referring to the video card manual.
There is a message that reads "Unrecognized monitor, Plug & Play (VESA DDC) monitor found".	Have you installed the monitor driver?	Install the monitor driver according to the Driver Installation Instructions .
	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 .
MagicTune™ doesn't work properly.	Have you changed your PC or video graphic card?	Download the latest program. The program can be downloaded from the http://www.samsung.com/ .

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

1. Check if the power cord and the video cables are properly connected to the computer.

2. 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 adapter (video) driver and the monitor driver.
4. Check if the scanning ratio of the video screen is set at 50Hz or 160 Hz .
(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.



If problems repeatedly occur, [contact an authorized service center](#).

[Check List](#)

[Q & A](#)

[Self-Test Feature Check](#)

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 ME/XP/2000 : Set the resolution at the Control Panel→Display→Settings . * Contact the video card manufacturer for details.
How can I set the Power Saving function?	Windows ME/XP/2000 : Set the function at BIOS-SETUP of the computer or the screen saver. (Refer to Windows/Computer Manual).
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 cleaning solution or plain water. Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor.

[Check List](#)

[Q & A](#)

[Self-Test Feature Check](#)

Self-Test Feature Check

[Self-Test Feature Check](#) | [Warning Messages](#) | [Environment](#) | [Useful Tips](#)

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly.

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 box in the illustration below.

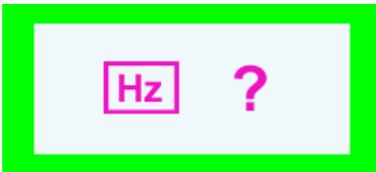


This box appears during normal operation if the video cable becomes disconnected or damaged.

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.

Warning Messages

If there is something wrong with the input signal, the message below 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 sub 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.

Useful Tips

- A monitor recreates visual signals received from the computer. Therefore, if there is trouble with the computer or the video card, this can cause the monitor to become blank, have poor coloring, noise, unavailable video mode, 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 a "**Hz** ?" 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.



Before calling for service, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call [the phone number on the Information section](#) or [contact your dealer](#).

Symptom	Check List	Solutions
No images on the screen. I cannot turn on the monitor.	Is the power cord connected properly?	Check the power cord connection and supply.
	Can you see " ? " 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 ME/XP/2000) and then change the frequency of the video card. (Refer to the Preset Timing Modes) Note: If the initial screen (the login screen) does not appear, contact a service center or your dealer .
	Can you see " Hz ? " 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 that the monitor can handle properly.
	There is no image on the screen. Is the power indicator on the monitor blinking at 1 second intervals?	The monitor is in PowerSaver mode. Press any key on the keyboard to activate the monitor and restore the image on the screen.
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 power adapter, speaker or a high	Move the monitor away from anything that can create a strong magnetic field.

	voltage wire near by? 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 just black and white.	Is the screen displaying only one color as if looking at the screen through a cellophane paper?	Check the signal cable connection. Make sure the video card is fully inserted in it's slot.
	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 unbalanced.	Have you changed the video card or the driver?	Adjust screen image position and size using the OSD.
	Have you adjusted the resolution or frequency on the monitor?	Adjust the resolution and frequency of the video card. (Refer to the Preset Timing 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 Timing Modes).
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.
	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 Timing 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?	Windows ME/2000/XP: Set the colors properly at the Control Panel → Display → Settings .
	Has the video card been set properly?	Set the video card by referring to the video card manual.
There is a message that reads "Unrecognized monitor, Plug & Play (VESA DDC) monitor found".	Have you installed the monitor driver?	Install the monitor driver according to the Driver Installation Instructions .
	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 .
MagicTune™ doesn't work properly.	Have you changed your PC or video graphic card?	Download the latest program. The program can be downloaded from the http://www.samsung.com/ .

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

1. Check if the power cord and the video cables are properly connected to the computer.

2. 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 adapter (video) driver and the monitor driver.
4. Check if the scanning ratio of the video screen is set at 50Hz or 160 Hz .
(Do not exceed 65 Hz 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.



If problems repeatedly occur, [contact an authorized service center](#).

[Check List](#) | [Q & A](#) | [Self-Test Feature Check](#)

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 ME/XP/2000 : Set the resolution at the Control Panel→Display→Settings . * Contact the video card manufacturer for details.
How can I set the Power Saving function?	Windows ME/XP/2000 : Set the function at BIOS-SETUP of the computer or the screen saver. (Refer to Windows/Computer Manual).
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 cleaning solution or plain water. Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor.

[Check List](#) | [Q & A](#) | [Self-Test Feature Check](#)

Self-Test Feature Check

[Self-Test Feature Check](#) | [Warning Messages](#) | [Environment](#) | [Useful Tips](#)

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly.

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 box in the illustration below.

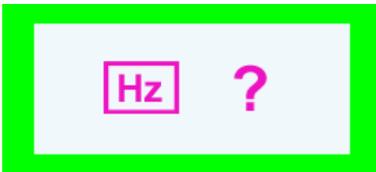


This box appears during normal operation if the video cable becomes disconnected or damaged.

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.

Warning Messages

If there is something wrong with the input signal, the message below 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 sub 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.

Useful Tips

- A monitor recreates visual signals received from the computer. Therefore, if there is trouble with the computer or the video card, this can cause the monitor to become blank, have poor coloring, noise, unavailable video mode, 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 a "**Hz** ?" 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.



Before calling for service, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call [the phone number on the Information section](#) or [contact your dealer](#).

Symptom	Check List	Solutions
No images on the screen. I cannot turn on the monitor.	Is the power cord connected properly?	Check the power cord connection and supply.
	Can you see " ? " 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 ME/XP/2000) and then change the frequency of the video card. (Refer to the Preset Timing Modes) Note: If the initial screen (the login screen) does not appear, contact a service center or your dealer .
	Can you see " Hz ? " 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 that the monitor can handle properly.
	There is no image on the screen. Is the power indicator on the monitor blinking at 1 second intervals?	The monitor is in PowerSaver mode. Press any key on the keyboard to activate the monitor and restore the image on the screen.
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 power adapter, speaker or a high	Move the monitor away from anything that can create a strong magnetic field.

	voltage wire near by? 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 just black and white.	Is the screen displaying only one color as if looking at the screen through a cellophane paper?	Check the signal cable connection. Make sure the video card is fully inserted in it's slot.
	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 unbalanced.	Have you changed the video card or the driver?	Adjust screen image position and size using the OSD.
	Have you adjusted the resolution or frequency on the monitor?	Adjust the resolution and frequency of the video card. (Refer to the Preset Timing 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 Timing Modes).
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.
	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 Timing 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?	Windows ME/2000/XP: Set the colors properly at the Control Panel → Display → Settings .
	Has the video card been set properly?	Set the video card by referring to the video card manual.
There is a message that reads "Unrecognized monitor, Plug & Play (VESA DDC) monitor found".	Have you installed the monitor driver?	Install the monitor driver according to the Driver Installation Instructions .
	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 .
MagicTune™ doesn't work properly.	Have you changed your PC or video graphic card?	Download the latest program. The program can be downloaded from the http://www.samsung.com/ .

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

1. Check if the power cord and the video cables are properly connected to the computer.

2. 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 adapter (video) driver and the monitor driver.
4. Check if the scanning ratio of the video screen is set at 50Hz or 160 Hz .
(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.



If problems repeatedly occur, [contact an authorized service center](#).

[Check List](#)

[Q & A](#)

[Self-Test Feature Check](#)

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 ME/XP/2000 : Set the resolution at the Control Panel→Display→Settings . * Contact the video card manufacturer for details.
How can I set the Power Saving function?	Windows ME/XP/2000 : Set the function at BIOS-SETUP of the computer or the screen saver. (Refer to Windows/Computer Manual).
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 cleaning solution or plain water. Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor.

[Check List](#)

[Q & A](#)

[Self-Test Feature Check](#)

Self-Test Feature Check

[Self-Test Feature Check](#) | [Warning Messages](#) | [Environment](#) | [Useful Tips](#)

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly.

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 box in the illustration below.



This box 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.

Warning Messages

If there is something wrong with the input signal, the message below 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 sub 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.

Useful Tips

- A monitor recreates visual signals received from the computer. Therefore, if there is trouble with the computer or the video card, this can cause the monitor to become blank, have poor coloring, noise, unavailable video mode, 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 a " ?" 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

General	
Model Name	SyncMaster 591s / 591v
Picture Tube	
Type	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. Multi-layer coated with anti-static/Glare.
Resolution	
Optimum resolution	800 x 600 @ 85Hz
Maximum resolution	1024 x 768
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	
Power Supply	

90 ~ 264VAC rms, 60/50 Hz ± 3Hz

Power Consumption

Less than 55W (Maximum 65W)

Dimensions (WxDxH)

361 x 379.2 x 347 mm / 14.2 x 14.9 x 13.7 inch (After installation of Stand)

Weight

11.0 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.

General | **PowerSaver** | Preset Timing Modes

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 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	Power-off mode
Power Indicator	Green	Green, Blinking
Power Consumption	Less than 55W (Maximum 65W)	Less than 1W

General | **PowerSaver** | Preset Timing Modes

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing 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)
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 640 x 480	43.300	85.000	36.000	-/-
VESA, 800 x 600	53.700	85.100	56.250	+/+



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



General

General	
Model Name	SyncMaster 793s,793v
Picture Tube	
Type	17"(43cm) Full square type (40.6cm viewable)
Deflection angle	90 °
Dot Pitch	0.23mm (Horizontal)
Screen type	Aluminized tri-color phosphor dot trio with black matrix. Anti-doming invar shadow mask. Multi-layer coated with anti-static.
Resolution	
Optimum resolution	1024 x 768 @ 85Hz
Maximum resolution	1280 x 1024 @ 60Hz
Active Display	
Horizontal	312 ± 4 mm
Vertical	234 ± 4 mm
Synchronization	
Horizontal	30 ~ 70 kHz
Vertical	50 ~ 160 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	
110 MHz	
Power Supply	

100 ~ 240VAC rms ± 10%, 60/50 Hz ± 3Hz

Power Consumption

Less than 70W (Maximum 75W)

Dimensions (WxDxH)

401 x 410 x 378 mm / 15.8 x 16.1 x 14.9 inch (After installation of Stand)

Weight

14.3kg

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.

General | **PowerSaver** | Preset Timing Modes

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 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	Power-off mode
Power Indicator	Green	Green, Blinking
Power Consumption	Less than 70W (Maximum 75W)	Less than 1W

General | PowerSaver | **Preset Timing Modes**

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing 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)
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	53.700	85.100	56.250	+/+
VESA, 1024 x 768	68.700	85.000	94.500	+/+



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



General

General	
Model Name	SyncMaster783DF,793DF,793MB
Picture Tube	
Type	17"(43cm) DynaFlat (40.6cm viewable)
Deflection angle	90 °
Dot Pitch	0.20mm (Horizontal)
Screen type	Aluminized tri-color phosphor dot trio with black matrix. Anti-doming invar shadow mask. Multi-layer coated with anti-static.
Resolution	
Optimum resolution	1024 x 768 @ 85Hz
Maximum resolution	1280 x 1024 @ 60Hz
Active Display	
Horizontal	312 ± 4 mm
Vertical	234 ± 4 mm
Synchronization	
Horizontal	30 ~ 70 kHz
Vertical	50 ~ 160 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	
110 MHz	
Power Supply	

100 ~ 240VAC rms \pm 10%, 60/50 Hz \pm 3Hz

Power Consumption

Less than 70W (Maximum 75W)

Dimensions (WxDxH)

401 x 410 x 378 mm / 15.8 x 16.1 x 14.9 inch (After installation of Stand)

Weight

14.3kg

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.

General | **PowerSaver** | Preset Timing Modes

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 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	Power-off mode
Power Indicator	Green	Green, Blinking
Power Consumption	Less than 70W (Maximum 75W)	Less than 1W

General | PowerSaver | **Preset Timing Modes**

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing 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)
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	53.700	85.100	56.250	+/+
VESA, 1024 x 768	68.700	85.000	94.500	+/+



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



General | PowerSaver | Preset Timing Modes |

General

General	
Model Name	SyncMaster 795DF / 795MB
Picture Tube	
Type	17"(43cm) DynaFlat (40.6cm viewable)
Deflection angle	90 °
Dot Pitch	0.20mm (Horizontal)
Screen type	Aluminized tri-color phosphor dot trio with black matrix. Anti-doming invar shadow mask. Multi-layer coated with anti-static.
Resolution	
Optimum resolution	1024 x 768 @ 85Hz
Maximum resolution	1600 x 1200 @ 65Hz
Active Display	
Horizontal	312 ± 4 mm
Vertical	234 ± 4 mm
Synchronization	
Horizontal	30 ~ 85 kHz
Vertical	50 ~ 160 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	
185 MHz	
Power Supply	

90 ~ 264VAC rms, 60/50 Hz ± 3Hz

Power Consumption

Less than 75W

Dimensions (WxDxH)

401 x 410 x 378 mm / 15.8 x 16.1 x 14.9 inch (After installation of Stand)

Weight

14.3kg

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.

General | **PowerSaver** | Preset Timing Modes

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 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	Power-off mode
Power Indicator	Green	Green, Blinking
Power Consumption	Less than 75W	Less than 1W

General | PowerSaver | **Preset Timing Modes**

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing 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)
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 1024 x 768	68.977	84.997	94.500	+/+
VESA, 1280 x 1024	79.976	75.025	135.00	+/+



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



General | PowerSaver | Preset Timing Modes |

● **General**

General	
Model Name	SyncMaster 797DF
Picture Tube	
Type	17"(43cm) DynaFlat (40.6cm viewable)
Deflection angle	90 °
Dot Pitch	0.20mm (Horizontal)
Screen type	Aluminized tri-color phosphor dot trio with black matrix. Anti-doming invar shadow mask. Multi-layer coated with anti-static.
Resolution	
Optimum resolution	1024 x 768 @ 85Hz
Maximum resolution	1600 x 1200
Active Display	
Horizontal	312 ± 4 mm
Vertical	234 ± 4 mm
Synchronization	
Horizontal	30 ~ 96 kHz
Vertical	50 ~ 160 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	
250 MHz	
Power Supply	

90 ~ 264VAC rms, 60/50 Hz ± 3Hz

Power Consumption

Less than 90W

Dimensions (WxDxH)

401 x 410 x 378 mm / 15.8 x 16.1 x 14.9 inch (After installation of Stand)

Weight

14.3kg

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.

General | **PowerSaver** | Preset Timing Modes

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 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	Power-off mode
Power Indicator	Green	Green, Blinking
Power Consumption	Less than 90W	Less than 1W

General | PowerSaver | **Preset Timing Modes**

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing 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)
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 1024 x 768	68.677	84.997	94.500	+/+
VESA, 1280 x 1024	91.146	85.024	157.50	+/+



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



General | PowerSaver | Preset Timing Modes |

● **General**

General	
Model Name	SyncMaster 997DF
Picture Tube	
Type	19"(48cm) DynaFlat (45.8cm viewable)
Deflection angle	90 °
Dot Pitch	0.20mm (Horizontal)
Screen type	Aluminized tri-color phosphor dot trio with black matrix. Anti-doming invar shadow mask. Multi-layer coated with anti-static.
Resolution	
Optimum resolution	1280 x 1024 @ 85Hz
Maximum resolution	1600 x 1200
Active Display	
Horizontal	352 ± 3 mm
Vertical	264 ± 3 mm
Synchronization	
Horizontal	30 ~ 96 kHz
Vertical	50 ~ 160 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
Signal cable	15pin D-Sub
Display Color	
Unlimited	
Maximum Pixel Clock	
250 MHz	

Power Supply	
90 ~ 264VAC rms, 60/50 Hz ± 3Hz	
Power Consumption	
Less than 110W	
Dimensions (WxDxH)	
445 x 457.5 x 416 mm / 17.5 x 18.0 x 16.4 inch (After installation of Stand)	
Weight	
18.2kg	
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.	

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 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	Power-off mode
Power Indicator	Green	Green, Blinking
Power Consumption	Less than 110W	Less than 1W

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing 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)
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 1024 x 768	68.677	84.997	94.500	+/+
VESA, 1024 x 768	91.146	85.024	157.50	+/+



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



[Contact SAMSUNG WORLD-WIDE](#) | [Terms](#) | [Authority](#) | [Regulatory](#) |

Contact SAMSUNG WORLD - WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

North America		
CANADA	1-800-SAMSUNG (7267864)	http://www.samsung.com/ca
MEXICO	01-800-SAMSUNG (7267864)	http://www.samsung.com/mx
U.S.A	1-800-SAMSUNG (7267864)	http://www.samsung.com

Latin America		
ARGENTINE	0800-333-3733	http://www.samsung.com/ar
BRAZIL	0800-124-421	http://www.samsung.com/br
CHILE	800-726-7864 (SAMSUNG)	http://www.samsung.com/cl
COSTA RICA	0-800-507-7267	http://www.samsung.com/latin
ECUADOR	1-800-10-7267	http://www.samsung.com/latin
EL SALVADOR	800-6225	http://www.samsung.com/latin
GUATEMALA	1-800-299-0013	http://www.samsung.com/latin
JAMAICA	1-800-234-7267	http://www.samsung.com/latin
PANAMA	800-7267	http://www.samsung.com/latin
PUERTO RICO	1-800-682-3180	http://www.samsung.com/latin
REP. DOMINICA	1-800-751-2676	http://www.samsung.com/latin
TRINIDAD & TOBAGO	1-800-7267-864	http://www.samsung.com/latin
VENEZUELA	1-800-100-5303	http://www.samsung.com/latin

Europe		
BELGIUM	02 201 2418	http://www.samsung.com/be

CZECH REPUBLIC	844 000 844	http://www.samsung.com/cz
DENMARK	38 322 887	http://www.samsung.com/dk
FINLAND	09 693 79 554	http://www.samsung.com/fi
FRANCE	08 25 08 65 65 (€0,15/min)	http://www.samsung.com/fr
GERMANY	01805 - 121213 (€0,12/Min)	http://www.samsung.de
HUNGARY	06 40 985 985	http://www.samsung.com/hu
ITALIA	199 153 153	http://www.samsung.com/it
LUXEMBURG	02 261 03 710	http://www.samsung.lu
NETHERLANDS	0900 20 200 88 (€0.10/Min)	http://www.samsung.com/nl
NORWAY	231 627 22	http://www.samsung.com/no
POLAND	0 801 801 881	http://www.samsung.com/pl
PORTUGAL	80 8 200 128	http://www.samsung.com/pt
SLOVAKIA	0850 123 989	http://www.samsung.com/sk
SPAIN	902 10 11 30	http://www.samsung.com/es
SWEDEN	08 585 367 87	http://www.samsung.com/se
U.K	0870 242 0303	http://www.samsung.com/uk

CIS		
RUSSIA	8-800-200-0400	http://www.samsung.ru
UKRAINE	8-800-502-0000	http://www.samsung.com/ur

Asia Pacific		
AUSTRALIA	1300 362 603	http://www.samsung.com/au
CHINA	800-810-5858, 010- 6475 1880	http://www.samsung.com.cn
HONG KONG	2862 6001	http://www.samsung.com/hk
INDIA	3030 8282, 1600 1100 11	http://www.samsung.com/in
INDONESIA	0800-112-8888	http://www.samsung.com/id
JAPAN	0120-327-527	http://www.samsung.com/jp
MALAYSIA	1800-88-9999	http://www.samsung.com/my
PHILIPPINES	1800-10-SAMSUNG (7267864)	http://www.samsung.com/ph
SINGAPORE	1800-SAMSUNG (7267864)	http://www.samsung.com/sg
THAILAND	1800-29-3232, 02-689-3232	http://www.samsung.com/th
TAIWAN	0800-329-999	http://www.samsung.com/tw
VIETNAM	1 800 588 889	http://www.samsung.com/vn

Middle East & Africa		
SOUTH AFRICA	0860 7267864 (SAMSUNG)	http://www.samsung.com/za
U.A.E	800SAMSUNG (7267864)	http://www.samsung.com/mea

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.

• **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).

Authority

Information in this document is subject to change without notice.

© 2006 Samsung Electronics Co., Ltd. All rights reserved.

Reproduction in any manner whatsoever without the written permission of Samsung Electronics Co., Ltd. is strictly forbidden.

Samsung Electronics Co., Ltd. shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Samsung is the registered trademark of Samsung Electronics Co., Ltd.; *Microsoft*, *Windows* and *Windows NT* are registered trademarks of Microsoft Corporation; *VESA*, *DPMS* and *DDC* are registered trademarks of Video Electronics Standard Association; the *ENERGY STAR*® name and logo are registered trademarks of the U.S. Environmental Protection Agency (EPA). All other product names mentioned herein may be the trademarks or registered trademarks of their respective owners.



MÉXICO

IMPORTADO POR: SAMSUNG ELECTRONICS MÉXICO. S.A. de C.V.
Vía Lopez Portillo No. 6, Col. San Fco. Chilpan
Tultitlán, Estado de México, C.P. 54940
Tel: 01-55-5747-5100 / 01-800-726-7864

EXPORTADO POR: Samsung Electronics CO.,LTD.
416, Mae tan-3dong, Yeongtong - gu,
Suwon City, Gyeonggi-do Korea