



**SyncMaster 591S/793S/591V/793V/783DF/793DF
/795DF/797DF/997DF/793MB/795MB**





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- ▶ Notational
- ▶ Power
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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



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

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



Do not use a damaged or loose plug.

- This may cause an electric shock or fire.



Do not pull the plug out by the wire nor touch the plug with wet hands.

- This may cause an electric shock or fire.



Use only a properly grounded plug and 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 lightning 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.



Safety Instructions

- ▶ Notational
- ▶ Power
- ▶ **Installation**
- ▶ Clean
- ▶ Others



Do not cover the vents on the monitor cabinet.

- Bad ventilation may cause a breakdown or fire.



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

- An electric shock or fire could result inside the monitor.



Do not drop the monitor when moving it.

- This may cause damage to the product or human body.



Place the monitor on a flat and stable surface.

- The monitor may cause injury by falling.



Set down the monitor carefully.

- It could be damaged or broken.



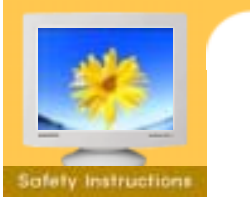
Do not place the monitor face down.

- The CDT surface may be damaged.



Do not use the monitor without the monitor stand.

- It could break down or cause a fire due to bad ventilation.
- If the monitor must be used without the supplied stand, take steps to insure proper ventilation.



- ▶ Notational
- ▶ Power
- ▶ Installation
- ▶ **Clean**
- ▶ Others



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.

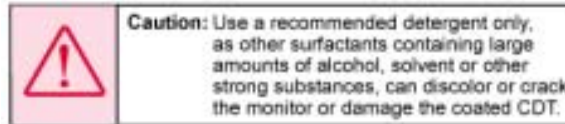


Do not water or spray detergent directly on the monitor.



Use the recommended detergent with a smooth cloth.

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



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

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



Do not set a glass of water, chemicals or any small metal objects on the monitor.

- This may cause damage, electric shock or a fire.
- If a foreign substance gets into the monitor, disconnect the plug and then [contact a service center](#).



Safety Instructions

- ▶ Notational
- ▶ Power
- ▶ Installation
- ▶ Clean
- ▶ 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 place any heavy objects on the monitor.

- This may cause an electric shock or fire.



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

- This will reduce eye fatigue.



Do not use or store inflammable substances near the monitor.

- This may cause an explosion or fire.



Do not try to move the monitor by pulling on the wire or the signal cable.

- This may cause a breakdown, electric shock or a fire due to damage to the cable.



Do not move the monitor right or left by pulling only the wire or the signal cable.

- This may cause a breakdown, electric shock or a fire due to damage to the cable.



Never insert anything metallic into the monitor openings.

- This may cause an electric shock, fire or injury.



Keep the monitor away from any magnetic substances.

- This may cause discoloring or distortion of the image.



- ▶ Unpacking
- ▶ Front
- ▶ Rear
- ▶ Bottom

SyncMster 591S / 793S / 591V / 793V / 793DF / 795DF / 797DF / 997DF / 793MB / 795MB

● Monitor and Stand



(Some models include a stand attached.)
Please make sure the following items are included with your monitor. If any items are missing, [contact your dealer](#).



● Power Cord



● Stand



● Quick Setup Guide



● Warranty Card (Not available in all locations)



● User's Guide, Monitor Driver



SyncMaster 783DF

For Multimedia model (Option)

● Multimedia Speaker Stand



● Sound Cables(2each)



● DC Power Cord



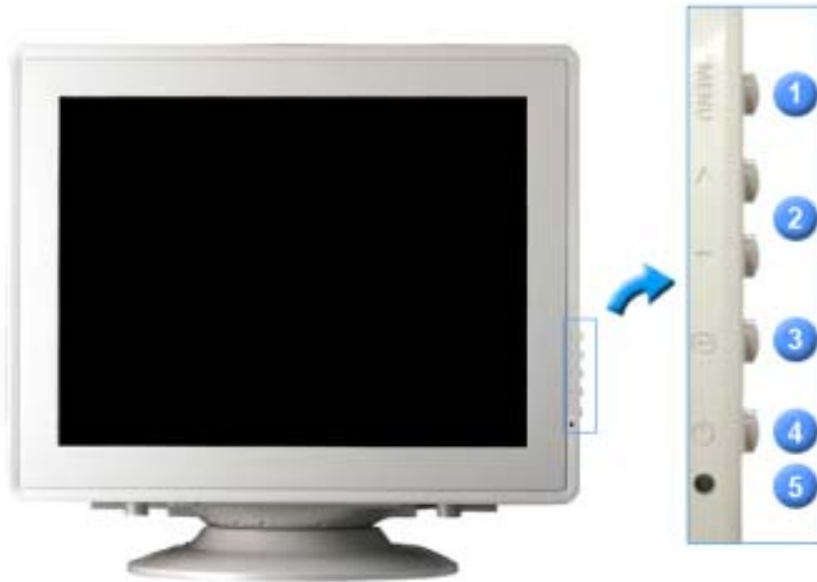
● User Guide





- ▶ Unpacking
- ▶ **Front**
- ▶ Rear
- ▶ Bottom

SyncMaster 591S / 793S / 591V / 793V / 793DF / 795DF / 797DF / 997DF / 793MB / 795MB



- 1. Menu button** 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.

Note: 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.



SyncMaster 783DF



- ▶ Introduction
- ▶ Unpacking
- ▶ Front
- ▶ **Rear**
- ▶ Bottom

SyncMaster 591S/793S/591V/793V/783DF/795DF 793DF/797DF/997DF/793MB/795MB

General

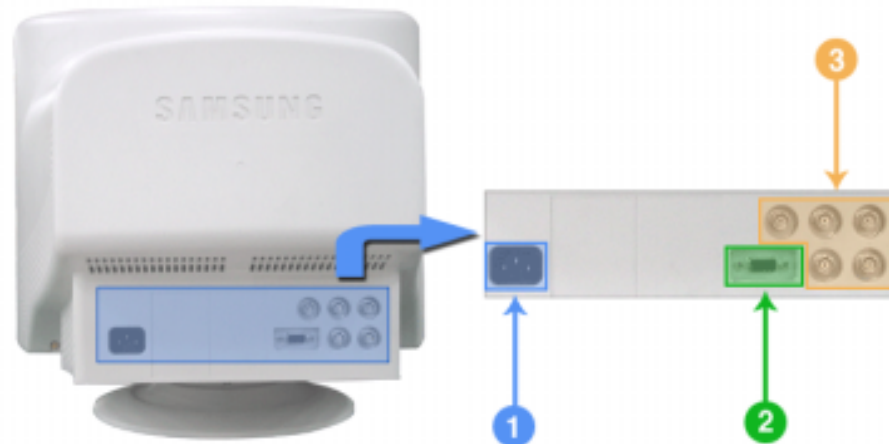


(The configuration at the back of the monitor may vary from product to product.)

- | | |
|------------------------|---|
| 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. |

SyncMaster 997DF

BNC Connectors (Option)



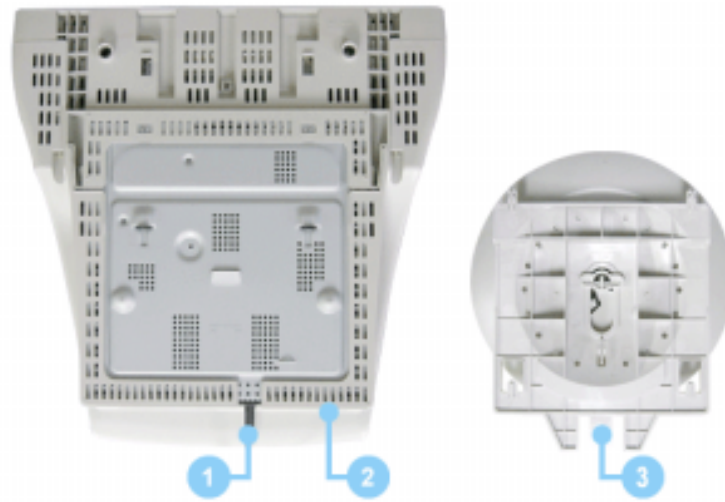
(The configuration at the back of the monitor may vary from product to product.)

- | | |
|-----------------------------------|---|
| 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. |

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



- ▶ Unpacking
- ▶ Front
- ▶ Rear
- ▶ **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.](#)



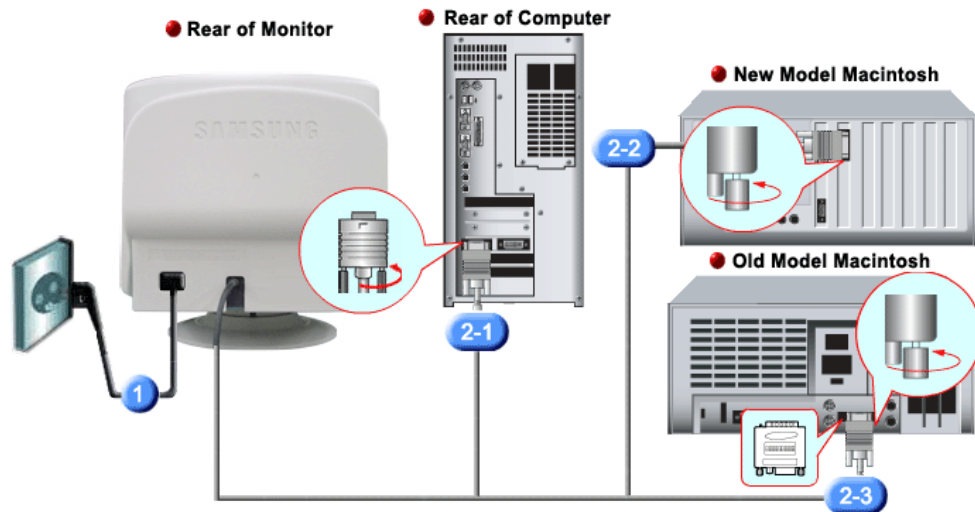
Setup


SyncMaster 591S/793S/591V/793V/783DF/795DF 793DF/797DF/997DF/793MB/795MB

- ▶▶ General
- ▶▶ BNC Connectors (Option)

- ▶ Connecting the Monitor
- ▶ Installing the Monitor Driver
- ▶ Base Installation

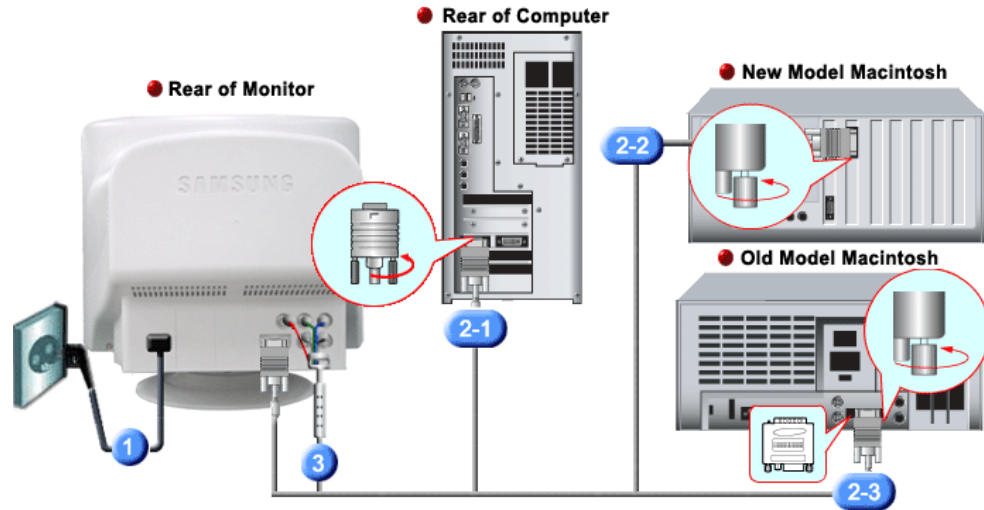
General



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.

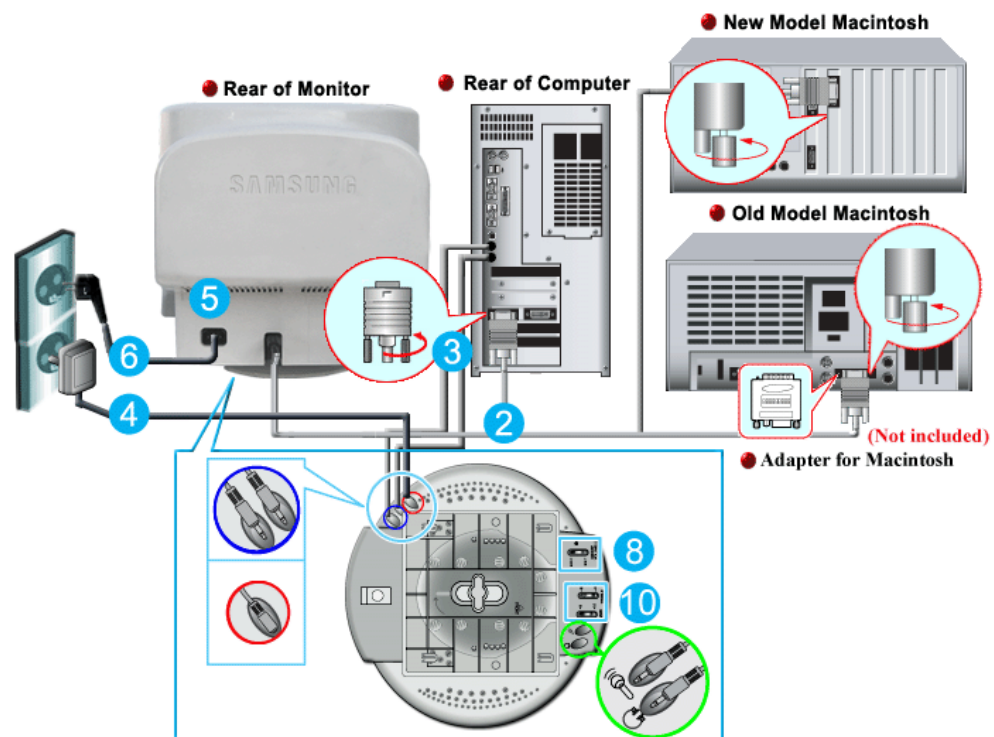
BNC Connectors (Option)

SyncMaster 997DF



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

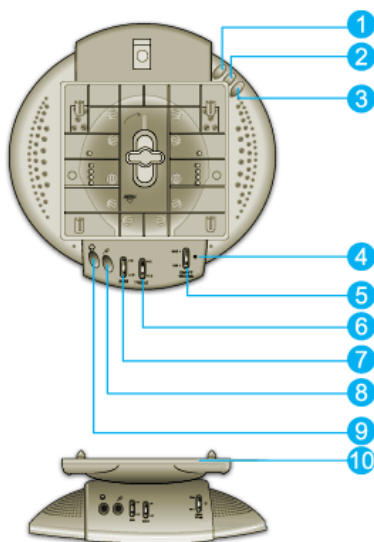


1. Turn off your computer and unplug the power cord.
2. Connect the end of the signal cable to your computer's video port(video board, video card or graphics card).
3. Connect one end of the other sound cable to the Mic Input jack on your sound card or computer. Connect the other end of this cable to 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.

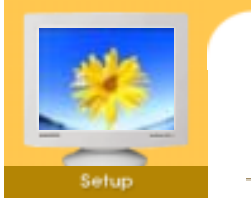


Sound distortion may occur when the monitor is placed on top of a mostly hollow cabinet such as your computer. If this occurs, place a pad or magazine beneath the monitor stand. High sound volume may also cause sound distortion; lower the volume.

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**
Glowes 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
- ▶ **Installing the Monitor Driver**
- ▶ Base Installation



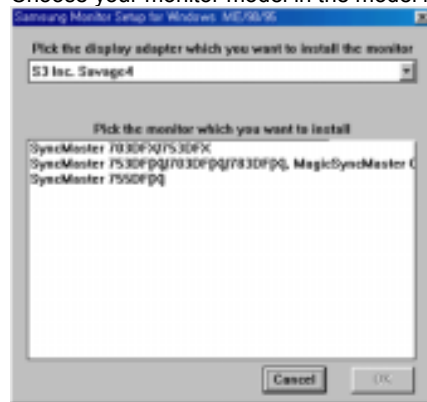
Note When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions as appropriate for the operating system you have.

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

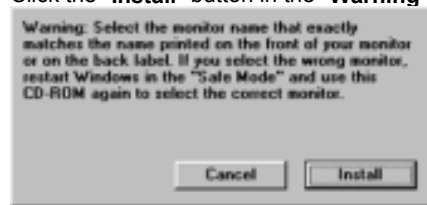
- Internet web site : <http://www.samsung-monitor.com/> (WorldWide)
<http://www.samsungusa.com/monitor/> (USA)
<http://www.sec.co.kr/monitor/> (Korea)
<http://www.samsungmonitor.com.cn/> (China)

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.



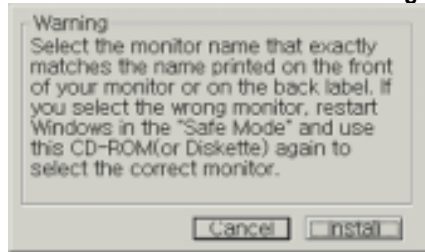
5. Monitor driver installation is completed.

Windows XP/2000

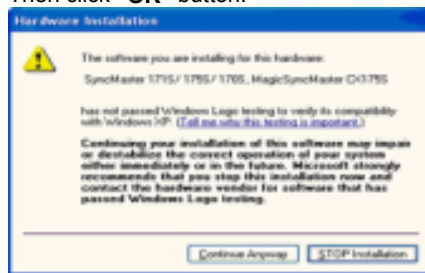
1. Insert CD into the CD-ROM driver.
2. Click **"Windows XP/2000 Driver"**.
3. Choose your monitor model in the model list, then click the **"OK"** button.



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



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



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



- ▶ Connecting the Monitor
- ▶ **Installing the Monitor Driver**
- ▶ Base Installation



Windows XP | Windows 2000 | Windows Me | Windows NT | Linux



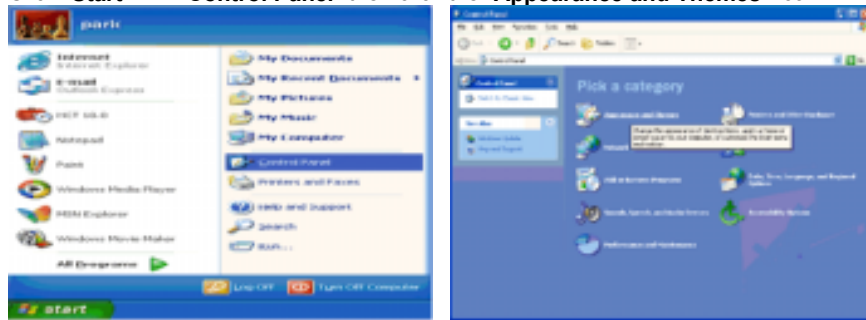
When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions as appropriate for the operating system you have.

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

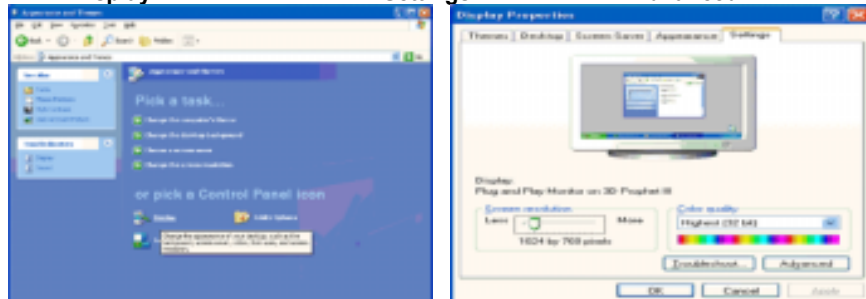
- Internet web site : <http://www.samsung-monitor.com/> (WorldWide)
- <http://www.samsungusa.com/monitor/> (USA)
- <http://www.sec.co.kr/monitor/> (Korea)
- <http://www.samsungmonitor.com.cn/> (China)

Microsoft® Windows® XP Operating System

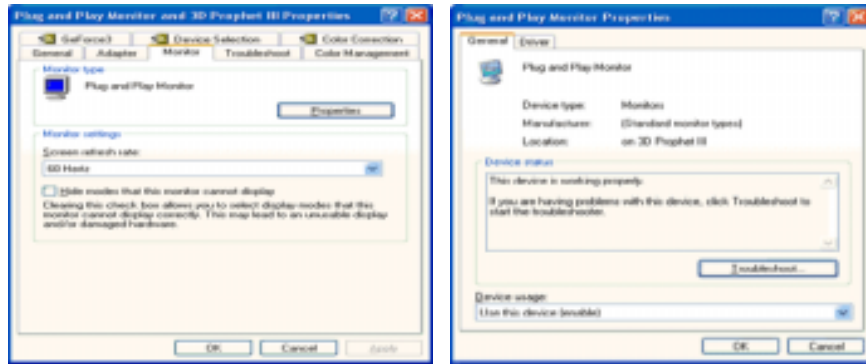
1. Insert CD into the CD-ROM driver.
2. Click **"Start"** → **"Control Panel"** then click the **"Appearance and Themes"** icon.



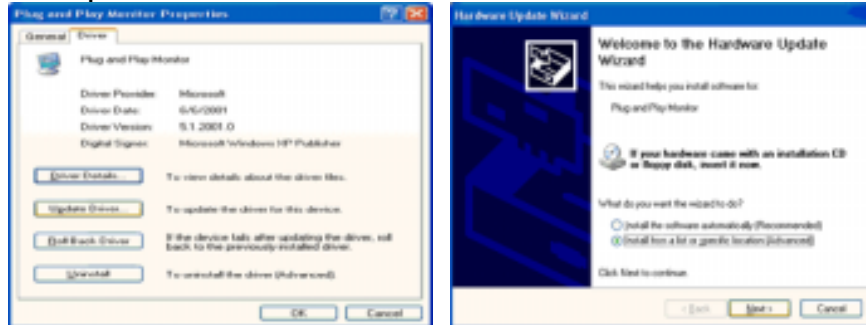
3. Click **"Display"** icon and choose the **"Settings"** tab then click **"Advanced.."**.



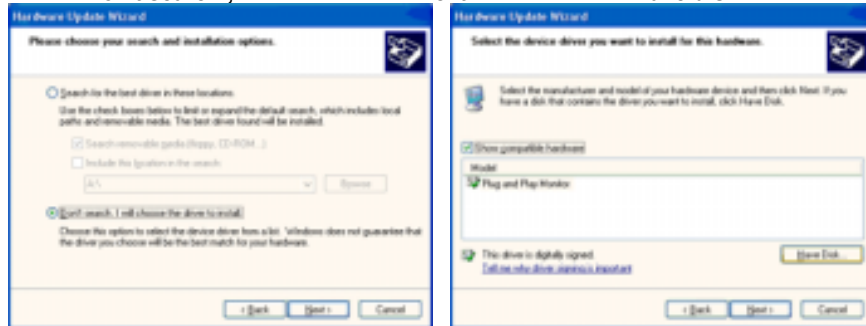
4. Click the **"Properties"** button on the **"Monitor"** tab and select **"Driver"** tab.



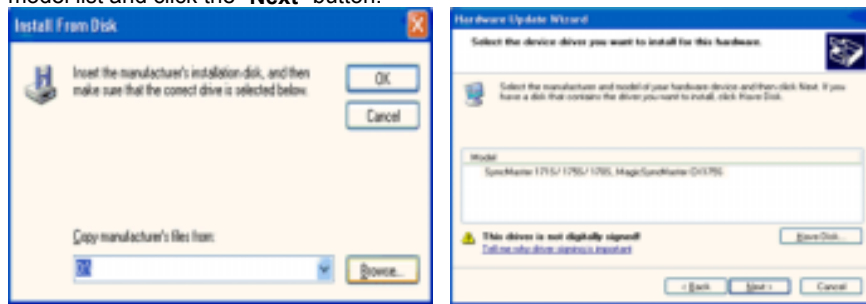
5. Click **"Update Driver.."** and select **"Install from a list or.."** then click **"Next"** button.



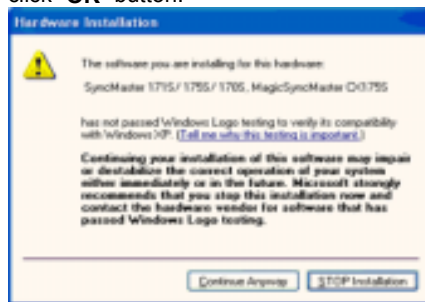
6. Select **"Don't search, I will.."** then click **"Next"** and then click **"Have disk"**.



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

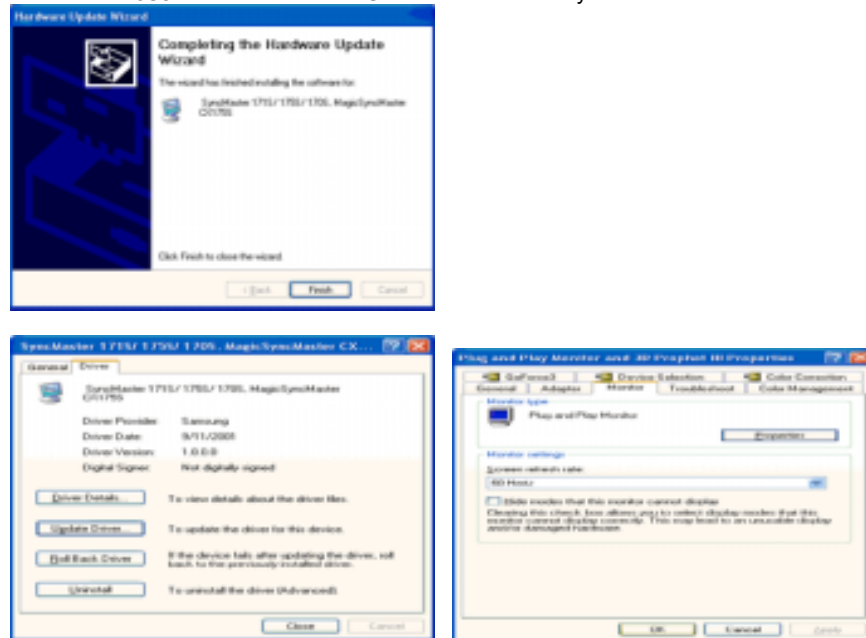


8. If you can see following **"Message"** window, then click the **"Continue Anyway"** button. Then click **"OK"** button.



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

- Click the "**Close**" button then click "**OK**" button continually.



- Monitor driver installation is completed.

Microsoft® Windows® 2000 Operating System

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

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

How to install

- Click "**Start**", "**Setting**", "**Control Panel**".
- Double click the "**Display**" icon.
- Choose the "**Settings**" tab and then click "**Advanced..**".
- 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.
- Click "**Driver**" and then click on "**Update Driver..**" then click on the "Next" button.
- 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**".
- Click the "**Browse**" button then choose A:(D:\Driver).
- Click the "**Open**" button, then click "**OK**" button.
- Choose your monitor model and click the "**Next**" button then click "**Next**" button.
- Click the "**Finish**" button then the "**Close**" button.

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

Microsoft® Windows® Millennium Operating System

- Click "**Start**", "**Setting**", "**Control Panel**".
- Double click "**Display**" icon.
- Select the "**Settings**" tab and click "**Advanced Properties**" button.
- Select the "**Monitor**" tab.
- Click the "**Change**" button in the "**Monitor Type**" area.
- Choose "**Specify the location of the driver**".

7. Choose "**Display a list of all the driver in a specific location..**" then click "**Next**" button.
8. Click the "**Have Disk**" button
9. Specify A:\(D:\driver) then click "**OK**" button.
10. Select "**Show all devices**" and choose the monitor that corresponds to the one you connected to your computer and click "**OK**".
11. Continue choosing "**Close**" button and "**OK**" button until you close the Display Properties dialogue box.
(You can get some other screen for warning message or others, then click the appreciate option for your monitor.)

Microsoft® Windows® NT Operating System

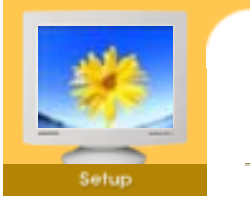
1. Click **Start, Settings, Control Panel**, and then double-click **Display** icon.
2. In Display Registration Information window, click Settings Tab and then click **All Display Modes**.
3. Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then click **OK**.
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).

Note: 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 Your Monitor
- ▶ Installing the Monitor Driver
- ▶ **Base Installation**

Tilt/Swivel Base

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



Note: 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.

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



▶ Adjusting Your Monitor

- ▶▶ [User control buttons](#)
- ▶▶ [Direct-Access Features](#)
- ▶▶ [OSD Functions](#)
- ▶▶ [MagicTune™](#)

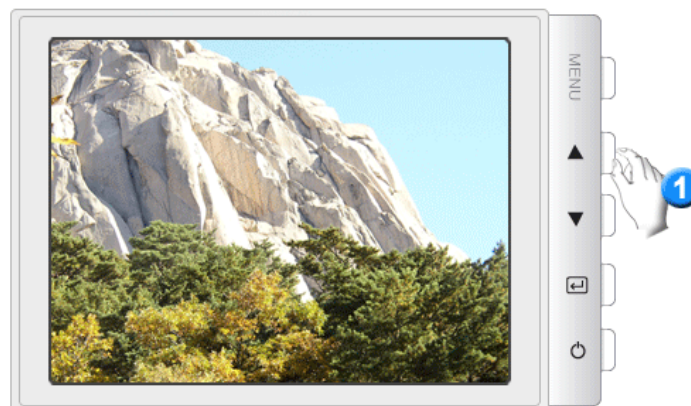
User control buttons



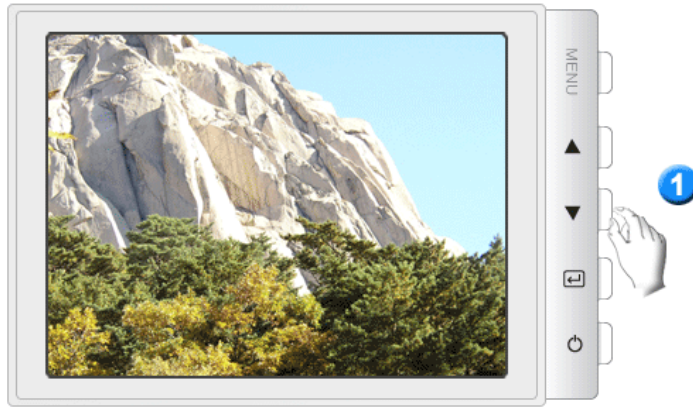
1. Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.
2. These buttons allow you to highlight and adjust items in the menu.
3. Use to select the OSD menu.

Direct-Access Features

| Brightness |



| Contrast |



OSD Functions










					sRGB		



















osd	Description	Play / Stop
	Adjust the Brightness.	
	Adjust the Contrast.	
	A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the horizontal moiré 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 moiré 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-Moiré, and V-Moiré. Note: If you have selected "Yes", all settings listed above will be reset. All other settings will remain the same.	





osd	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.	



osd	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.



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▶▶ User control buttons
▶▶ Direct-Access Features
▶▶ OSD Functions
▶▶ MagicTune™

▶ Adjusting Your Monitor

User control buttons

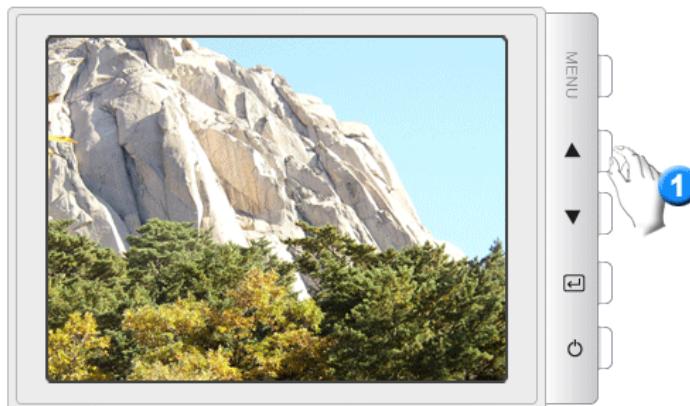


1. Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.
2. These buttons allow you to highlight and adjust items in the menu.
3. Use to select the OSD menu.

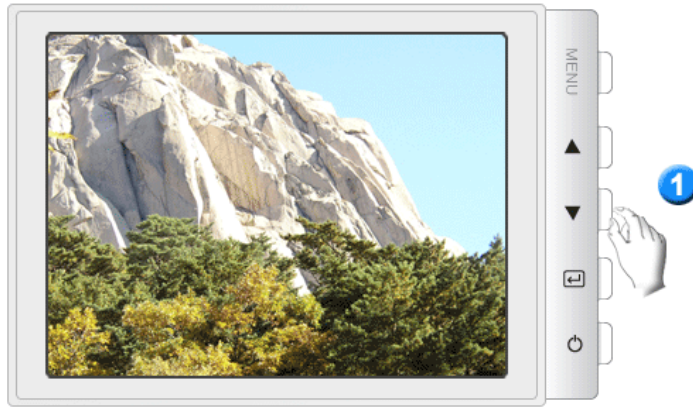


Direct-Access Features

| Brightness |



| Contrast |



OSD Functions

					sRGB				



osd	Description	Play / Stop
	Adjust the Brightness.	
	Adjust the Contrast.	
	A "Moire" 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 "Moire" 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.	





osd	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.	



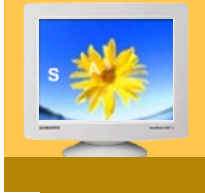
osd	Description	Play / Stop
	Follow these instructions to change the horizontal position of the monitor's entire display.	
	Follow these instructions to change the vertical position of the monitor's entire display.	
	Follow these instructions to change the horizontal size of the monitor's entire display.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



SyncMaster 783DF



▶ Adjusting Your Monitor

- ▶▶ [User control buttons](#)
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- ▶▶ [OSD Functions](#)
- ▶▶ [MagicTune™](#)

User control buttons

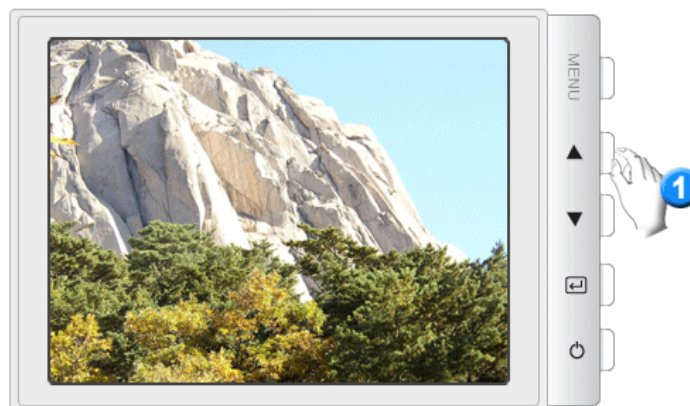


1. Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.
2. These buttons allow you to highlight and adjust items in the menu.
3. Use to select the OSD menu.

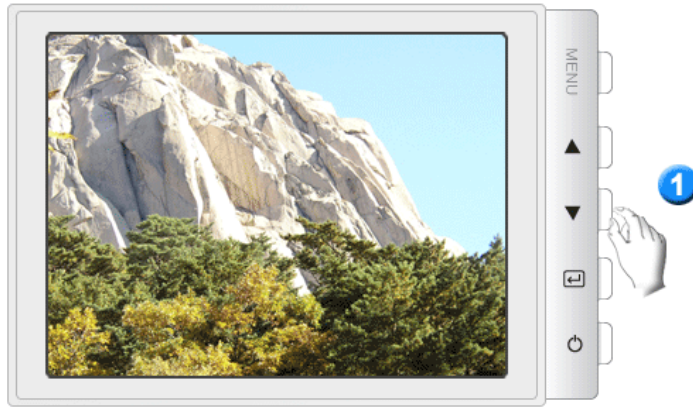


Direct-Access Features

| Brightness |



| Contrast |



OSD Functions

					sRGB				



osd	Description	Play / Stop
	Adjust the Brightness.	
	Adjust the Contrast.	
	A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the horizontal moiré 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 moiré 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-Moiré, and V-Moiré. Note: If you have selected "Yes", all settings listed above will be reset. All other settings will remain the same.	





osd	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.	



osd	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.





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- ▶▶ [OSD Functions](#)
- ▶▶ [MagicTune™](#)

User control buttons

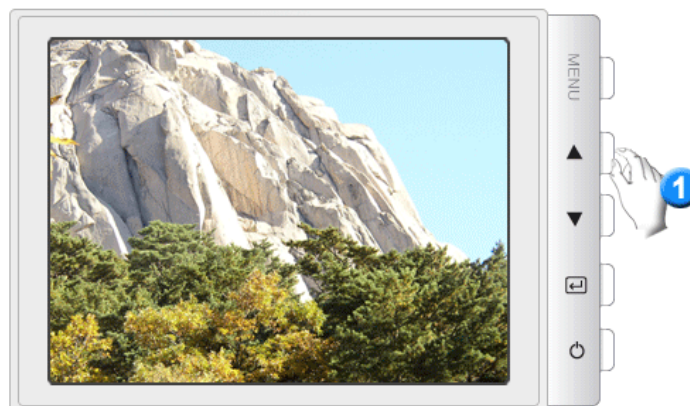


1. Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.
2. These buttons allow you to highlight and adjust items in the menu.
3. Use to select the OSD menu.

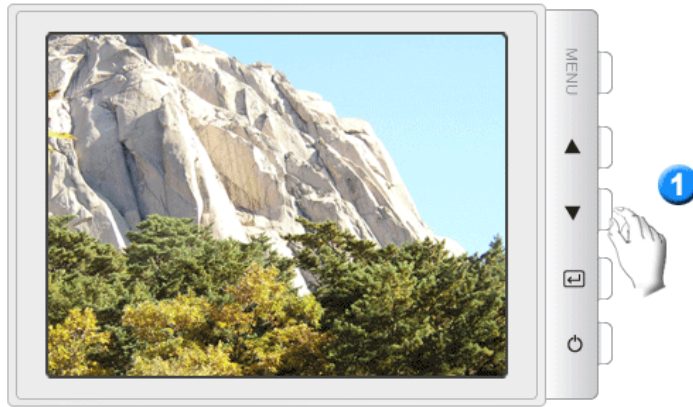


Direct-Access Features

| Brightness |



| Contrast |




OSD Functions










					sRGB		















OSD	Description	Play / Stop
	Adjust the Brightness.	
	Adjust the Contrast.	
	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.



OSD	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.	



OSD	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 pin cushion setting when the sides of the display are bowed in or bowed out.	
	Adjust the pin balance 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.	

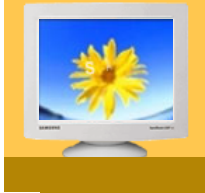
		 
	Adjust the parallelogram setting when the display is leaning left or right.	 
	Adjust the rotation setting when the entire display is tilted left or right.	 
	Adjust the side pin corner correction when the top or bottom of the display is too large or small.	 



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.





▶ Adjusting Your Monitor

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- ▶▶ [Direct-Access Features](#)
- ▶▶ [OSD Functions](#)
- ▶▶ [MagicTune™](#)

User control buttons

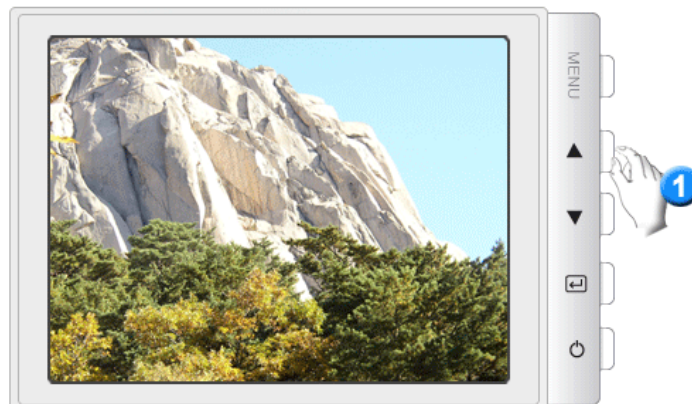


1. Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.
2. These buttons allow you to highlight and adjust items in the menu.
3. Use to select the OSD menu.
- a. MagicBright2™ is a new feature providing optimum viewing environment depending on the contents of the image you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



Direct-Access Features

| Brightness |





MagicBright2™ Then push the MagicBright2™ button again to circle through a available preconfigured modes.



OSD Functions

					sRGB				



osd	Description	Play / Stop
	Adjust the Brightness.	
	Adjust the Contrast.	
	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.	



osd	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.	



osd	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.



MagicTune™ HELP

[Overview](#) | [Installation](#) | [OSD Mode](#) | [Uninstall](#) | [Troubleshooting](#)

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.

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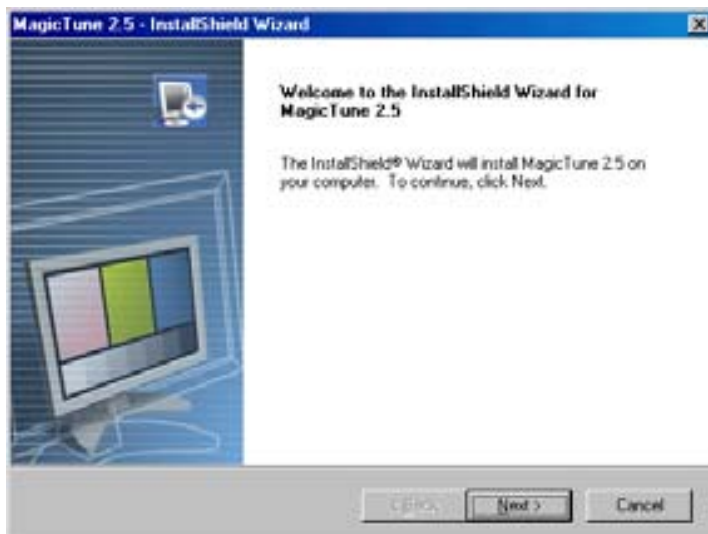

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Installation

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



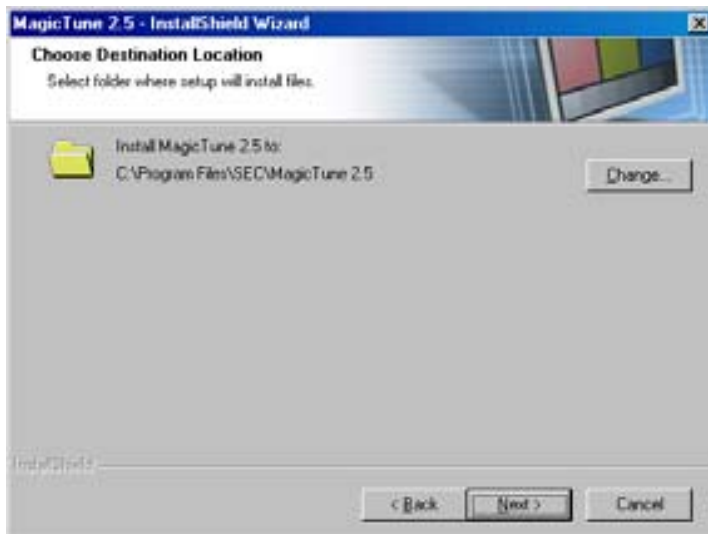
4. When the InstallShield Wizard window appears, click "Next."



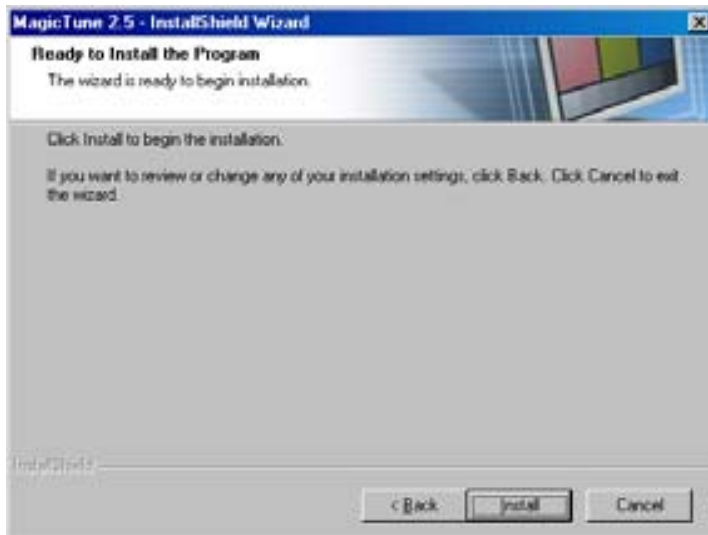
5. Select "I agree to the terms of the license agreement" to accept the terms of use.



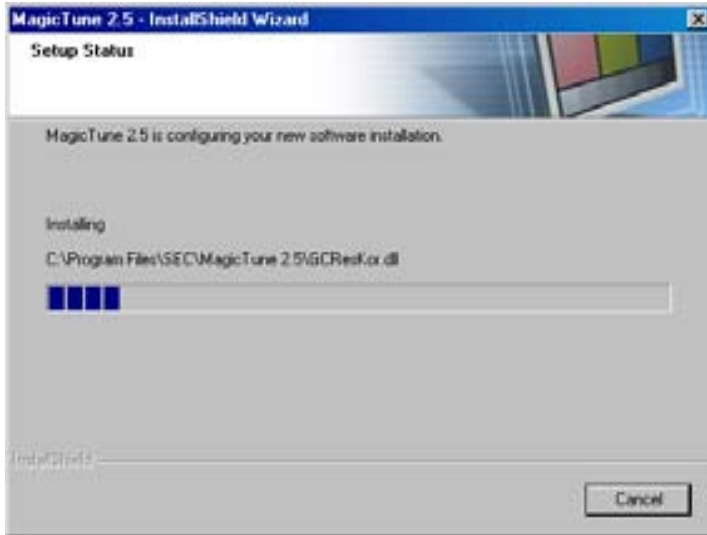
6. Choose a folder to install the MagicTune program.



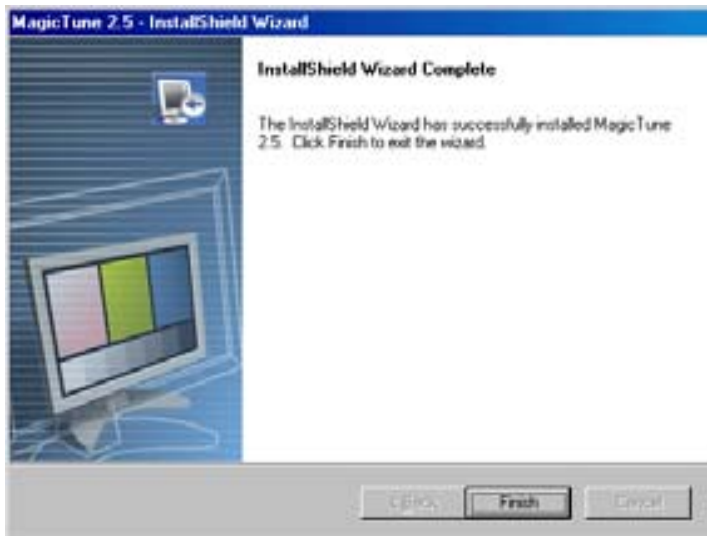
7. Click "Install."



8. The "Installation Status" window appears.



9. Click "Finish."



10. 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.

11. 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.

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](#).

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MagicTune™ HELP

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

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 it easy to adjust settings on all monitors. 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.



The tone of the color can be changed.

Color Tone

- Warm - Normal - Cool
- Custom

Adjusts of the monitor image color.

Color Control

You can change the monitor color to your desired color.

- 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.

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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.

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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.

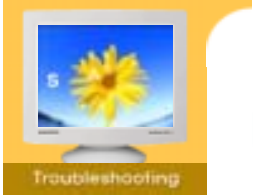
Visit the MagicTune [website](#) for technical support for MagicTune, FAQs (questions and answers) and software upgrades.



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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](#).

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

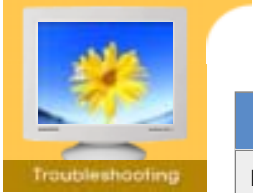
Symptom	Check List	Solutions
No images on the screen. I cannot turn on the monitor.	Is the power cord connected properly?	Check the power cord connection and supply.
	Can you see "  " on the screen?	Check the signal cable connection.
	If the power is on, reboot the computer to see the initial screen(the 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 handle properly. 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 or move the mouse 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 voltage wire near by?	Move the monitor away from anything that can create a strong magnetic field.
	Is the voltage stable?	The screen image can appear to shake or vibrate at a particular time of day due to low supply voltage.
	The screen image can also appear to shake or vibrate if there is a problem with the video card or the computer's main board.	
The screen shows strange colors or just black and white.	Is the screen displaying only one color as if looking at the screen through a cellophane	Check the signal cable connection. Make sure the video card is fully

	paper?	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 at 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.
LED is blinking but no images on the screen.	Is the frequency properly adjusted when checking the Display Timing on the menu?	Adjust the frequency properly by referring to the video card manual and the Preset 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?	For Windows ME/XP/2000: 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.

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

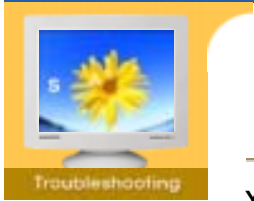
1. Check if the power cord and the video cables are properly connected to the computer.
2. Check if the computer beeps more than 3 times when booting.
(If it does, request an after-service for the main board of the computer.)
3. If you installed a new video card or if you assembled the PC, check if the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

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



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

Question	Answer
How can I change the frequency?	<p>Frequency can be changed by reconfiguring the video card.</p> <p>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.)</p>
How can I adjust the resolution?	<p>Windows ME/XP/2000: Set the resolution at the Control Panel, Display, Settings.</p> <p>* Contact the video card manufacturer for details.</p>
How can I set the Power Saving function?	<p>Windows ME/XP/2000: Set the function at BIOS-SETUP of the computer or the screen saver. (Refer to Windows/Computer Manual).</p>
The monitor makes a sound when it is turned on.	<p>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.</p>
How can I clean the outer case/Picture tube?	<p>Disconnect the power cord and then clean the monitor with a soft cloth, using either a cleaning solution or plain water.</p> <p>Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor.</p>



- ▶ Check List
- ▶ Q & A
- ▶ **Self-Test Feature Check**

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.



**SyncMaster 591S/793S/591V/793V/783DF/793DF
/795DF/797DF/793MB/795MB**



SyncMaster 997DF

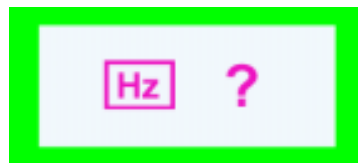
This box appears during normal operation if the video cable becomes disconnected or damaged.

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

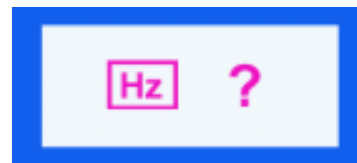
If your monitor screen remains blank after using the previous procedure, check your video controller and computer system; your monitor is functioning properly.

Warning Messages

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



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/795DF/797DF/793MB/795MB**



SyncMaster 997DF

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, Sync. Out of Range, etc. In this case, first check the source of the problem, and then contact a service center or your dealer.
- **Judging the monitor's working condition**
If there is no image on the screen or a "Sync. Out of Range" message comes up, disconnect the cable from the computer while the monitor is still powered on.
 - If there is a message coming up on the screen or if the screen goes white, this means the monitor is in working condition.
 - In this case, check the computer for trouble.



- ▶ **General**
- ▶ PowerSaver
- ▶ Preset Timing Modes

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.
Maximum Resolution	
1024 x 768(NI)	
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 70W	
Dimensions (WxDxH)	
361 x 379.2 x 347 mm (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

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.
Maximum Resolution	
1280 x 1024 (NI)	
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	
90 ~ 264VAC rms, 60/50 Hz ± 3Hz	
Power Consumption	
Less than 90W	
Dimensions (WxDxH)	
401 x 410 x 378mm (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

General	
Model Name	SyncMaster 793DF/793MB/783DF
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.
Maximum Resolution	
1280 x 1024 (NI)	
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	
90 ~ 264VAC rms, 60/50 Hz ± 3Hz	
Power Consumption	
Less than 90W	
Dimensions (WxDxH)	
401 x 410 x 378mm (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

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.
Maximum Resolution	
1600 x 1200 (NI)	
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 90W	
Dimensions (WxDxH)	
401 x 410 x 378mm (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

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.
Maximum Resolution	
1600 x 1200@76Hz	
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 378mm (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

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.
Maximum Resolution	
1600 X 1200@ 76Hz	
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
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 416mm (After installation of Stand)	
Weight	
18.2 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.

SyncMaster 591S/591V

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Specifications

- ▶ [General](#)
- ▶ [PowerSaver](#)
- ▶ [Preset Timing Modes](#)

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you move the computer's mouse or press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPMS compliant video card installed in your computer. Use a software utility installed on your computer to set up this feature.

State	Normal Operation	Power-off Mode EPA/ENERGY 2000
Power Indicator	Green	Green, Blinking
Power Consumption	Less than 70W	Less than 2W



This monitor is EPA ENERGY STAR[®] compliant and ENERGY2000 compliant when used with a computer equipped with VESA DPMS functionality.

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

SyncMaster 793S/793V/783DF/795DF 793DF/797DF/793MB/795MB

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Specifications

- ▶ General
- ▶ **PowerSaver**
- ▶ Preset Timing Modes

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State	Normal Operation	Power-off Mode EPA/ENERGY 2000
Power Indicator	Green	Green, Blinking
Power Consumption	Less than 90W	Less than 2W



This monitor is EPA ENERGY STAR[®] compliant and ENERGY2000 compliant when used with a computer equipped with VESA DPMS functionality.

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

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Specifications

- ▶ General
- ▶ **PowerSaver**
- ▶ Preset Timing Modes

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you move the computer's mouse or press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPMS compliant video card installed in your computer. Use a software utility installed on your computer to set up this feature.

State	Normal Operation	Power-off Mode EPA/ENERGY 2000
Power Indicator	Green	Green, Blinking
Power Consumption	Less than 110W	Less than 2W



This monitor is EPA ENERGY STAR[®] compliant and ENERGY2000 compliant when used with a computer equipped with VESA DPMS functionality.

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

SyncMaster 591S/591V

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Specifications

- ▶ General
- ▶ PowerSaver
- ▶ **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.

Table 1. Preset Timing Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VESA, 640 x 480	37.500	85.008	36.000	-/-
VESA, 640 x 480	43.269	75.000	31.500	-/-
VESA, 800 x 600	53.674	85.061	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

SyncMaster 793S/793V/783DF/793DF793MB

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Specifications

- ▶ General
- ▶ PowerSaver
- ▶ **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.

Table 1. Preset Timing Modes

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	53.674	85.061	56.250	+/+
VESA, 1024 x 768	68.677	84.997	94.500	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+



Horizontal Frequency

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

Vertical Frequency

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

SyncMaster 795DF/795MB

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Specifications

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- ▶ **Preset Timing Modes**

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Table 1. Preset Timing Modes

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	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

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Specifications

- ▶ General
- ▶ PowerSaver
- ▶ **Preset Timing Modes**

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Table 1. Preset Timing Modes

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



- ▶ Service
- ▶ Terms
- ▶ Regulatory
- ▶ Natural Color
- ▶ Authority

- **AUSTRALIA :**
Samsung Electronics Australia Pty Ltd.
Customer Response Centre
7 Parkview Drive, Homebush Bay NSW 2127
Tel : 1300 362 603
<http://www.samsung.com.au/>
- **BRAZIL :**
Samsung Eletronica da Amazonia Ltda.
R. Prof. Manoelito de Ornellas, 303, Terro B
Chacara Sto. Antonio, CEP : 04719-040
Sao Paulo, SP
SAC : 0800 124 421
<http://www.samsung.com.br/>
- **CANADA :**
Samsung Electronics Canada Inc.
Samsung Customer Care
7037 Financial Drive
Mississauga, Ontario
L5N 6R3
1-800-SAMSUNG (1-800-726-7864)
<http://www.samsung.ca/>
- **CHILE :**
SONDA S.A.
Teatinos 550, Santiago Centro, Santiago, Chile
Fono: 56-2-5605000 Fax: 56-2-5605353
56-2-800200211
<http://www.sonda.com/>
<http://www.samsung.cl/>
- **COLOMBIA :**
Samsung Electronics Colombia
Cra 9 No 99A-02 Of. 106
Bogota, Colombia
Tel.: 9-800-112-112
Fax: (571) 618 - 2068
<http://www.samsung-latin.com/>
e-mail : soporte@samsung-latin.com
- **ESPAÑA :**
Samsung Electronics Comercial Iberica, S.A.
Ciencias, 55-65 (Poligono Pedrosa) 08908
Hospitalet de Llobregat (Barcelona)
Tel. : (93) 261 67 00
Fax. : (93) 261 67 50
<http://samsung.es/>
- **FRANCE :**
SAMSUNG ELECTRONICS FRANCE Service
Paris Nord 2
66 rue des Vanesses
BP 50116 Villepinte
95950 Roissy CDG Cedex
Tel : 08 25 08 65 65
Fax : 01 48 63 06 38
<http://www.samsungservices.com/>
- **GERMANY :**
TELEPLAN Rhein-Main GmbH
Feldstr. 16
64331 Weiterstadt
T. 06151/957-1306
F. 06151/957-1732
* EURO 0.12/Min
<http://www.samsung.de/>

- HUNGARY :**
 Samsung Electronics Magyar Rt.
 1039, Budapest, Lehel u. 15-17.
 Tel: 36 1 453 1100
 Fax: 36 1 453 1101
<http://www.samsung.hu/>
- ITALY :**
 Samsung Electronics Italia S.p.a.
 Via C. Donat Cattin, 5
 20063 Cernusco s/Naviglio (MI)
 Servizio Clienti: 199.153.153
<http://www.samsung-italia.com/>
- MEXICO :**
 SAMSUNG ELECTRONICS MEXICO. S.A. DE C.V.
 Via Lopez Portillo No. 6, Col. San Francisco
 Chilpan Tultitlan, Estado de Mexico C.P. 54940, Mexico D.F. Mexico
 Tel : 01(55) 5317 2551/3410/3409
 Fax : 01(55) 5317 3377
 RFC: SEM950215S98
<http://www.samsung.com.mx/>

IMPORTADO POR: SAMSUNG ELECTRONICS MEXICO. S.A. DE C.V.
 Via Lopez Portillo No. 6, Col. San Francisco
 Chilpan Tultitlan, Estado de Mexico C.P. 54940, Mexico D.F. Mexico
 Tel : 01(55) 5317 2551/3410/3409

EXPORTADO POR: Samsung Electronics CO.,LTD.
 416, Mae tan-3dong, Yeongtong-gu,
 Suwon City, Kyoungki-Do Korea
- NETHERLANDS/BELGIUM/LUXEMBOURG :**
 Samsung Electronics Benelux B. V.
 Fleminglaan 12 2289 CP Rijiswijk, NEDERLANDS
 Service and informatielijn ;
 Belgium :0800-95214, <http://www.samsung.be/>
 Netherlands : 0800-2295214, <http://www.samsung.nl/>
- PANAMA :**
 Samsung Electronics Latinoamerica(Z.L.) S.A.
 Calle 50 Edificio Plaza Credicorp, Planta Baja
 Panama
 Tel. : (507) 210-1122, 210-1133
 Tel : 800-3278(FAST)
<http://www.samsung-latin.com/>
- PERU**
 Servicio Integral Samsung
 Av.Argentina 1790 Lima1. Peru
 Tel: 51-1-336-8686
 Fax: 51-1-336-8551
<http://www.samsungperu.com/>
- PORTUGAL :**
 SAMSUNG ELECTRONICA PORTUGUESA S.A.
 Rua Mário Dioniso, Nº2 - 1º Dt. 2795-140 LINDA-A-VELHA
 Tel. 214 148 114/100 Fax. 214 148 133/128
 Free Line 800 220 120
<http://www.samsung.pt/>
- SOUTH AFRICA :**
 Samsung Electronics,5 Libertas Road, Somerset Office Park,
 Bryanston Ext 16. Po Box 70006, Bryanston,2021, South Africa
 Tel : 0027-11-549-1621
 Fax : 0027-11-549-1629
<http://www.samsung.co.za/>

- **SWEDEN/DENMARK/NORWAY/FINLAND :**
Samsung Electronics AB
Box 713
S-194 27 UPPLANDS VÄSBY
SVERIGE
Besöksadress : Johanneslundsvägen 4
Samsung support Sverige: 020-46 46 46
Samsung support Danmark : 8088-4646
Samsung support Norge: 8001-1800
Samsung support Finland: 0800-118001
Tel +46 8 590 966 00
Fax +46 8 590 966 50
<http://www.samsung.se/>
- **THAILAND :**
HAI SAMSUNG SERVICE CENTER
MPA COMPLEX BUILDING, 1st-2nd Floor
175 SOI SUEKSA VIDHAYA SATHON SOI 12
SILOM ROAD ,SILOM,BANGRAK
BANGKOK 10500
TEL : 0-2635-2567
FAX : 0-2635-2556
- **UKRAINE :**
SAMSUNG ELECTRONICS REPRESENTATIVE OFFICE IN UKRAINE
4 Glybochitska str.
Kiev, Ukraine
Tel. 8-044-4906878
Fax 8-044-4906887
Toll-free 8-800-502-0000
<http://www.samsung.com.ua/>
- **United Kingdom :**
Samsung Electronics (UK) Ltd.
Samsung House, 225 Hook Rise South
Surbiton, Surrey KT6 7LD
Tel. : (0208) 391 0168
Fax. : (0208) 397 9949
< European Service Center & National Service >
Stafford Park 12 Telford, Shropshire, TF3 3BJ
Tel. : (0870) 242 0303
Fax. : (01952) 292 033
<http://samsungservice.co.uk/>
- **U.S.A. :**
Samsung Electronics America
Service Division
400 Valley Road, Suite 201
Mount Arlington, NJ 07856
1-800-SAMSUNG (1-800-726-7864)
<http://samsungusa.com>



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■ **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).



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Regulatory

[FCC Information](#) | [IC Compliance Notice](#) | [MPR II Compliance](#) | [European Notice \(Europe only\)](#) | [PCT Notice](#) | [VCCI](#) | [CCC Notice](#)
[TCO'95-Ecological requirements for personal computers \(TCO'95 applied model only\)](#)
[TCO'99-Ecological requirements for personal computers \(TCO'99 applied model only\)](#)
[TCO'03-Ecological requirements for personal computers \(TCO'03 applied model only\)](#)
[TCO'03 Recycling Information \(TCO'03 applied model only\)](#)

You must right-click the link for a portable document format (PDF) file and save the file to your hard-disk drive. Attempting to link directly to large PDF files causes your system to freeze.

Regulatory (PDF Document)

- To save PDF files (files with an extension of **.pdf**) to your hard-disk drive, right-click the document title, click **Save Target As** in Microsoft® Internet Explorer or **Save Link As** in Netscape Navigator, and specify a location on your hard-disk drive. To view a PDF file, launch Adobe™ Acrobat Reader. Click **File** → **Open** and select the PDF file. -

Note : You need to run Adobe Acrobat Reader to View PDF Documents.



FCC Information

User Instructions

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

The party responsible for product compliance:
SAMSUNG ELECTRONICS CO., LTD
America QA Lab of Samsung
3351 Michelson Drive,
Suite #290, Irvine, CA92612 USA
Tel) 949-975-7310
Fax) 949-922-8301

Warning

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

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

For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type

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

■ IC Compliance Notice

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

Cet appareil Numérique de classe B respecte toutes les exigences du Règlement NMB-03 sur les équipements produisant des interférences au Canada.

■ MPR II Compliance

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

■ European Notice (Europe only)

Products with the CE Marking comply with both the EMC Directive (89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN55022:1998+A1:2000 - Radio Frequency Interference
- EN55024:1998 - Electromagnetic Immunity
- EN61000-3-2:1995+A1/A2:1998 - Power Line Harmonics
- EN61000-3-3:1995 - Voltage Fluctuations

■ PCT Notice



■ VCCI

This is a Class B product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

■ CCC Notice

CCC 合格声明

此产品根据GB4943-1995, GB9254-1998,
GB17625.1-1998, 标准获得CCC认证。

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



AB general requirements

AB2 Written Eco-document accompanying the products

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

Why do we have environmentally-labelled monitors?

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

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

What does labelling involve?

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

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

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

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

TCO Development Unit 1996-11-29

On the page this folder you will find a brief summary of the environmental requirements met by this product.

The complete environmental criteria document may be ordered from:

TCO Development Unit

S-11494 Stockholm

Sweden

Fax: +46 8 782 92 07

E-mail (Internet): development@tco.se

Current information regarding TCO'95-approved and labelled products may also be obtained via the Internet, using the address:

<http://www.tco-info.com/>

TCO'95 is a co-operative project between (3 logos)

Environmental Requirements

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

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

Lead

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

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

Cadmium

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

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

Mercury

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

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

CFCs (freons)

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

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

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



Congratulations!

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

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

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

Why do we have environmentally labelled computers?

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

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

What does labelling involve?

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

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

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

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

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

Environmental requirements

Flame retardants

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

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

Cadmium**

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

Mercury**

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

CFCs (freons)

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

Lead**

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

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

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

■ TCO'03-Ecological requirements for personal computers (TCO'03 applied model only)



Congratulations!

The display you have just purchased carries the TCO'03 Displays label. This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment.

Some of the features of the TCO'03 Display requirements:

Ergonomics

Good visual ergonomics and image quality in order to improve the working environment for the user and to

reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

Energy

- Energy-saving mode after a certain time-beneficial both for the user and the environment
- Electrical safety

Emissions

- Electromagnetic fields
- Noise emissions

Ecology

- The product must be prepared for recycling and the manufacturer must have a certified environmental management system such as EMAS or ISO 14 000
- Restrictions on
 - o chlorinated and brominated flame retardants and polymers
 - o heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in cooperation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, Please visit
www.tcodevelopment.com

■ **TCO'03 Recycling Information (TCO'03 applied model only)**

[European Residents Only]

For recycling information for TCO'03 certified monitors, for the residents in the following countries, please contact the company corresponding to your region of residence. For those who reside in other countries, please contact a nearest local Samsung dealer for recycling information for the products to be treated in environmentally acceptable way.

	[U.S.A. Residents Only]	[European Residents Only]		
	U.S.A.	SWEDEN	NORWAY	GERMANY
COMPANY	Solid Waste Transfer & Recycling Inc	ELKRETSSEN	Elektronikkretur AS	vfw AG
ADDRESS	442 Frelinghuysen Ave Newark, NJ 07114	ELKRETSSEN Box 1357, 111 83 Stockholm Barnhusgatan 3, 4 tr.	6454 Etterstad 0602 Oslo Fyrstikkalln 3B	Max Plank Strasse 42 50858 Collogne Germany
TELEPHONE	973-565-0181	08-545 212 90	23 06 07 40	49 0 2234 9587 - 0
FAX	Fax: 973-565-9485	08-545 212 99	23 06 07 41	
E-MAIL	none	info@el-kretsen.se	adm@elektronikkretur.no	vfw.info@vfw-ag.de
HOME PAGE	http://www.bcua.org/SolidWaste_Disposal6.htm	http://www.el-kretsen.se/	http://www.elretur.no/	



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■ 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 installation 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 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.



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