

SyncMaster 510MP / 710MP





INDEX





Notational

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

Do not touch



Do not disassemble



Disconnect the plug from the outlet

Important to read and understand at all times

1



Grounding to prevent an electric shock



Power





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

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.



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



Installation

	 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.
Car Car	 Place the monitor on a flat and stable surface. The monitor can cause injury by falling.
	 Set down the monitor carefully. It could be damaged or broken.
	 Do not place the monitor face down. The TFT-LCD surface may be damaged.
	Installing a wall bracket must be done by a qualified professional.



- Installation by unqualified personnel may result in injury.
 - Always use the mounting device specified in the owner's manual.



Cleaning



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



Do not spray water or detergent directly on the monitor.

• This may cause damage, electric shock or a fire.



Use the recommended detergent with a smooth cloth.



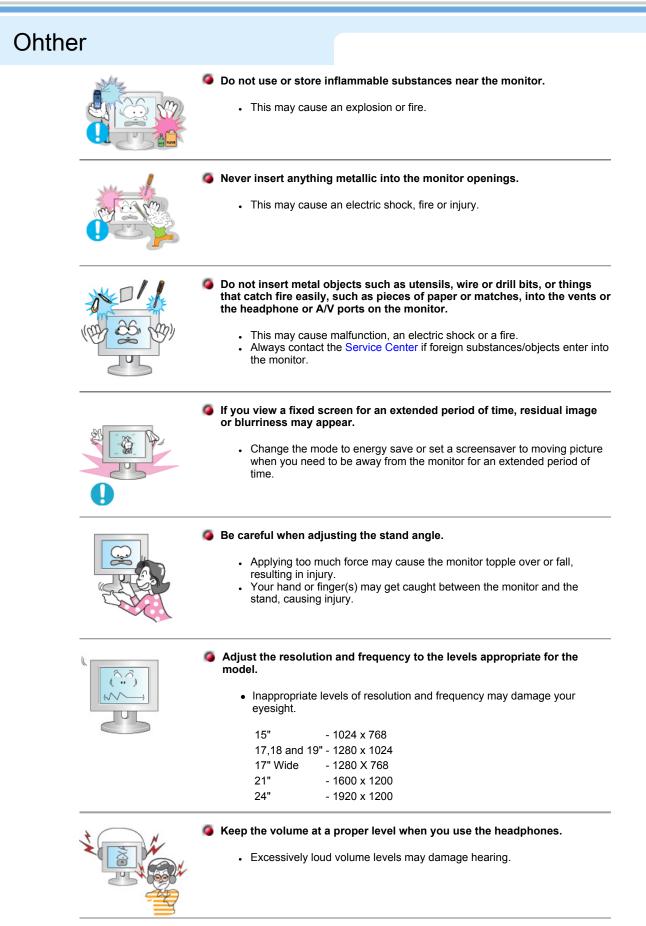
- If the connector between the plug and the pin is dusty or dirty, clean it properly with a dry cloth.
 - A dirty connector can cause an electric shock or fire.



Ohth	er	
		 Do not remove cover(or back). No user serviceable parts inside. This may cause an electric shock or a fire. Refer servicing to qualified service personnel.
-		 If your monitor does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service. This may cause an electric shock or fire.
		 Be careful not to let water drip into the monitor or expose the monitor to moisture. This may cause malfunction, an electric shock or a fire. Especially avoid operating the monitor near water or outdoors where it could be exposed to snow or rain.
		 If the monitor is dropped or the casing is damaged, turn the monitor off and unplug the power cord. The monitor may malfunction, causing an electric shock or a fire. Then contact the Service Center.
		 Keep the power off when there is thunder and lightening outside, or let the monitor remain unused for an extended period of time. The monitor may malfunction, causing an electric shock or a 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.
		 Do not cover the vents on the monitor cabinet. Bad ventilation may cause a breakdown or fire.
		 Do not place water containers, chemical products or small metal objects on the monitor. This may cause malfunction, an electric shock or a fire. If a foreign substance enters the monitor, unplug the power cord and contact the Service Center.

This may cause malfunction, an electric shock or a fire.
If a foreign substance enters the monitor, unplug the power cord and contact the Service Center.







Keep a proper distance between your eyes and the monitor screen.

Sitting too close to the monitor on a continuous basis may damage eyesight.



Unpacking

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







User's Guide and Natural Color/Driver Installation CD

Power Cord

Signal Cable(15 pin D-Sub)



Remote Control / Batteries (CR2025)



Quick Setup Guide



Monitor



Audio Cable

Warranty Card (Not available in all locations)



Front



For detailed information concerning the monitor functions, refer to User Controls under Adjusting Your Monitor. The monitor's front configuration may vary slightly depending on the monitor model.

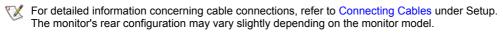




- 1. SOURCE button
- 2. MagicBright[™] button
- 3. AUTO / EXIT button
- 4. Up-Down / Channel button
- 5. Left-Right / Volume button
- 6. MENU button
- 7. Power button
- 8. Power indicator

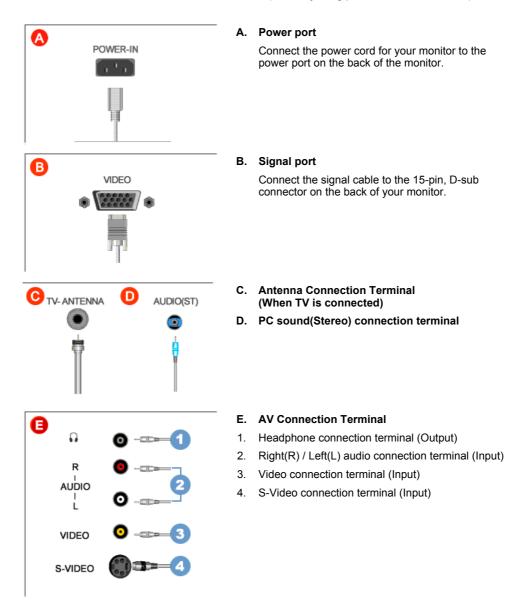


Rear





Remove the cover to connect the cables. (Pull the joining part to remove the cover.)

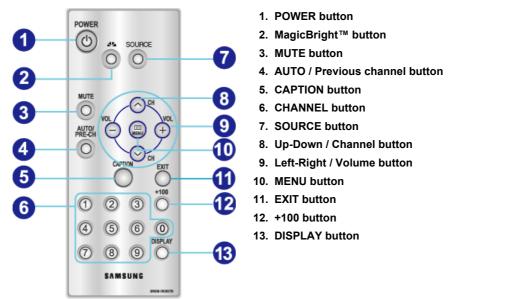


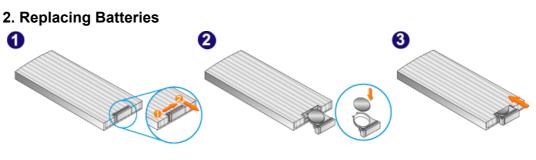


Remote Control

- For detailed information of the Remote Control Unit functions, refer to Adjusting Your Monitor > User Controls > User Control Buttons > Remote Control buttons.
 - The remote control's configuration may vary slightly depending on the monitor model.
- The Remote control may function within a range of 0.23 to 33 feet (7cm to 10m) and 30 degrees to the left and right of the monitor's Remote Control Reception sensor.

1. Button Names





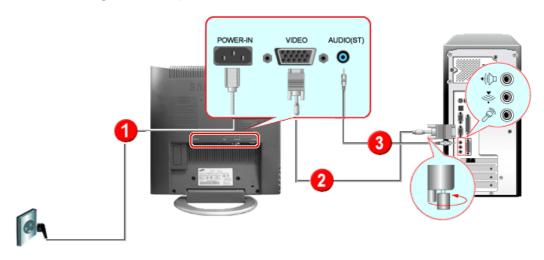
- 1. To open, slide the tray handle to the right 0 and then pull it forward 2.
- 2. Place the battery on the tray with the right side up.
- 3. Push the tray back in in the arrow direction.



Connecting to a Computer

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

1. Connecting to a Computer



- 1. Connect the power cord for your monitor to the power port on the back of the monitor.
- 2. Connect the signal cable to the video port on your computer.
- 3. Connect the audio cable for your monitor to the audio port on the back of your computer.
- 4. Turn on both your computer and the monitor.
- 5. You may enjoy clear and quality sound from the computer sound card using the monitor speakers. (You don't need to install any separate speakers for your computer.)

Contact a local Samsung Electronics service center to buy optional items.

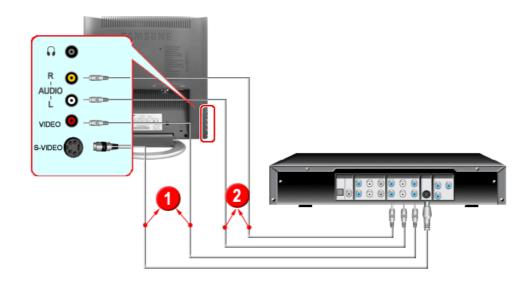


Connecting to other devices

AV input devices like DVDs, VCRs or Camcorders as well as your computer may be connected to the monitor. For detailed information on connecting AV input devices, refer to User Controls under Adjusting Your Monitor.

1. Connecting AV Devices

The monitor has AV connection terminals to connect AV input devices like DVDs, VCRs or Camcorders. You may enjoy AV signals as long as the monitor is turned on.



1. AV input devices like DVDs, VCRs or Camcorders are connected to the S-Video (V1) or Video (V2) terminal of the monitor using the S-VHS or RCA cable.

S-VHS or RCA cable is optional.

- Connect the Audio (L) and Audio (R) terminals of a DVD, VCR or Camcorders to the monitor's L and R audio input terminals using audio cables.
- 3. Select Video or S-Video that is connected to a DVD, VCR or Camcorders using the Source button on the monitor's front.
- 4. Then, start the DVD, VCR or Camcorders with a DVD disc or tape inserted.



Connecting to other devices

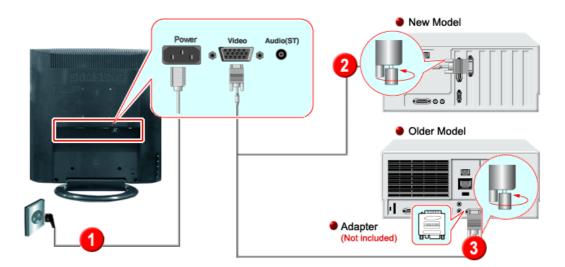
2. Connecting TV

You may view television programs on the monitor if it is connected to an antenna or CATV cable without installing any separate TV reception hardware or software on your computer.



- 1. Connect the CATV or antenna coaxial cable to the Antenna terminal on the rear of the monitor. You need to use a coaxial antenna cable.
- 2. Turn on the monitor.
- 3. Select TV using Source button among the external signal adjustment buttons.
- 4. Select a desired TV channel.
- As this product is designed for NTSC signals only, you cannot view TV programs in countries where PAL or SECAM signals are used.

3. Connecting to a Macintosh



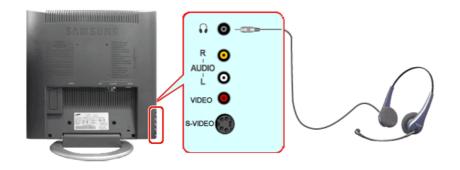
- 1. Connect the power cord for your monitor to the power port on the back of the monitor.
- 2. Connect the signal cable to the D-SUB port on the Macintosh computer.
- 3. For older model Macintoshes, you need to adjust the resolution control DIP switch on the Macintosh adapter (Not included) referring to the switch configuration table shown on its rear.
- 4. Turn on the monitor and Macintosh.



Connecting to other devices

4. Connecting Headphones

 \swarrow You may connect your headphones to the monitor.



1. Connect your headphones to the Headphone-out port.



X 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.

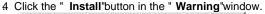
• Internet web site : http://www.samsung-monitor.com/ (Worldwide) http://www.samsungusa.com/monitor/ (USA) http://www.sec.co.kr/monitor/ (Korea) http://www.samsungmonitor.com.cn/ (China)

1. Windows ME

Refer to "Installing the Monitor Driver and User Manual"CD-RØ supplied with the monitor. \mathbf{X} When inserted into the computer CD drive, the CD-R \square boots up automatically. If it fails to boot up automatically, click **monsetup.exe** twice in the CD-R \square drive folder of Windows Epolerer.

- 1. Insert CD into the CD-RØ driver.
- 2. Click "Windows ME Driver"
- 3 Choose your monitor model in the model list, then click the " $\ensuremath{\text{OK}}$ "button.

amsung M	onitor Setup for Windows ME	_ 🗆 🗙
Pick the c	lisplay adapter on which you want to install the	monitor
Intel740 (Compatible Graphics Adapter	-
	Currently installed monitor	
3	Pick the monitor which you want to install	
	er 152MP, SyncMaster Magic CX157A(P)-G er 172MP, SyncMaster Magic CX177A(P)-G	
	Cancel	OK
ck the	" Install"button in the " Warnin	ng"wine
	Select the monitor name that exactly the name printed on the front of your m	onitor





5. Monitor driver installation is completed.



2. Windows XP/2000

- Refer to "Installing the Monitor Driver and User Manual" CD-ROM supplied with the monitor. When inserted into the computer CD drive, the CD-ROM boots up automatically. If it fails to boot up automatically, click monsetup.exe twice in the CD-ROM drive folder of Windows Explorer.
 - 1. Insert CD into the CD-RØ driver.
 - 2. Click "Windows XP/2000 Driver."
 - 3 Choose your monitor model in the model list, then click the " **OK**"button.



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



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

Hardwa	re Installation
1	The software you are installing for this hardware: SyncMaster 1715/1755/1705, MagicSyncMaster Cx1755 has not passed Windows Logo testing to verify its compatibility with Vindows XP. (Tell me why this testing is important). Tornitruing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation
-	

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



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

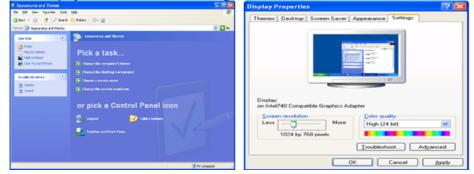
- Internet web site : http://www.samsung-monitor.com/ (Worldwide) http://www.samsungusa.com/monitor/ (USA) http://www.sec.co.kr/monitor/ (Krea) http://www.samsungmonitor.com.cn/ (China)
- o install the monitor driver manually, follow the procedures eplained below after checking your operating system.

1. Microsoft[®] Windows[®] XP Operating System

- 1. Insert CD into the CD-ROM driver.
- 2. <u>Click "Start" "-->" Control Panel"then click the</u> " Appearance and Themes"lcon.



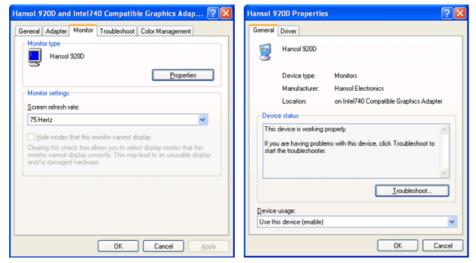
3 Click " Display"icon and choose the " Settings "tab then click " Advanced..."



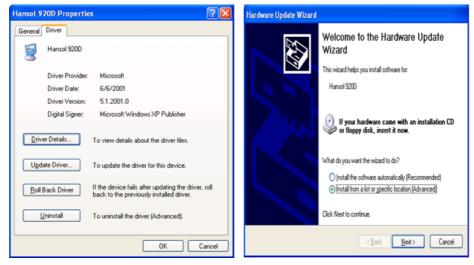
4 Click the Properties" button on the " Monitor" tab and select " Driver" tab.



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."

Hardware Update Wizard	Hardware Update Wizard
Please choose your search and installation options.	Select the device driver you want to install for this hardware.
Qsearch for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.	Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Search removable media (Roppy, CD-ROM)	Show compatible hardware
Include this location in the search:	Model
A:\SC12004-TX_2000\win2000	Hansol 920D
Open't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.	Image: Plug and Play Monitor Image: Plug and Play Monitor <t< th=""></t<>
(gack Next) Cancel	< gack Next Cancel

 Click the "Browse" button then choose A(DDriver) and choose your monitor model in the model list and click the "Next" button.

Install From Disk		X	Hardware Update Wizard
J	Insert the manufacture's installation disk, and then make sure that the correct drive is selected below.	OK Cancel	Select the device driver you want to install for this hardware.
	Copy manufacture's files from:	Browse	SyreMatter 172MP This driver is not digitally signed! Int me.who.driver.sioning.is imported Cancel Cancel



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



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

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

Hardware Update Wizard	
Hardware Update Wizard	Completing the Hardware Update Wizard The wizard has finished installing the software for: SyncMaster 152MP
	Click Finish to close the wizard.
	< Back Finish Cancel

SyncMaster 152MP Properties	SyncMaster 152MP and Intel740 Compatible Grapid.
SyncMaster 152MP Driver Provider: Samsung Driver Date: 2/6/2002	SyncMaster 152MP
Driver Version: 1.0.0.0 Driver Version: 1.0.0.0 Digital Signer: Not digitally signed	Monitor settings Screen refresh rate: [75 Hentz
Driver Details To view details about the driver files. Ugdate Driver To update the driver for this device.	Hide modes that this monitor cannot display Clearing this check box allows you to select display modes that this monitor cannot display correctly. This may lead to an unusable display and/or damaged hardware.
Boll Back Driver If the device fails after updating the driver, roll back to the previously installed driver. Uninstall To uninstall the driver (Advanced).	
Close Cancel	OK Cancel Apply

10. Monitor driver installation is completed.



2. Microsoft[®] Windows[®] 2000 Operating System

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

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

* How to install

- 1. Click "Start", " Setting", " Control Panel."
- 2. Double click the "Display"Icon.
- 3 Choose the " Settings"tab and then click " Advanced ... "
- 4 Choose " Monitor"
 - Case 1: If the Properties"button is inactive, it means your monitor is properly configured. Please stop installation.
 - Case 2: If the Properties"button is active, click the Properties"button then follow netsteps continually.
- 5. Click "Driver"and then click on " Update Driver.. "then click on the Net" button.
- 6 Choose " Display a list of the known drivers for this device so that I can choose a specific driver"then click " Next"and then click " Have disk."
- Click the "Browse"button then choose A(DDriver). 7
- 8 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 "Yesbutton. And click the "Finish"button then the " Close"button.

3. 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.
- 5. Click the "Change"button in the " Monitor Type"area. 6 Choose " Specify the location of the driver".
- 7. Choose "Display a list of all the driver in a specific location."then click " Next"button.
- 8 Click the " Have Disk"button
- 9 Specify A(DDriver)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 "NEXT". Click "NEXT" again and "FINISH" to complete installation.
- 11. Continue choosing "CLOSE" button and "OK" button until you close the Display Properties dialogue box

(Yu may get a screen with a warning or other message, just click the appropriate option for your monitor.)



4. Microsoft[®] Windows[®] NT 4.0 Operating System

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

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

5. Linux Operating System

秋 of execute XWindow, you need to make the Config file, which is a type of system setting file.

- 1. Press Enter at the first and the second screen after excuting the Config file.
- 2. The third screen is for setting your mouse.
- 3 Set a mouse for your computer.
- 4 The net screen is for selecting a keyboard.
- 5. Set a Kyboard for your computer.
- 6 The networken is for setting your monitor.
- 7. First of all, set a horizontal frequency for your monitor. (Wu 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. Yu have finished setting up your monitor.
 - **Execute** Window after setting other reqested hardware.



Installing a VESA base

The monitor may be reclined from 0 to 90 degrees. When fully folded (reclined), the base becomes a handy holder for moving the monitor around.

1. Reclining Monitor





Installing a VESA base

2. Folding Base



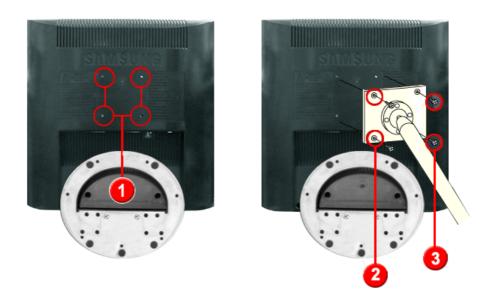


 \bigvee You may install a VESA base when the monitor base is fully folded.



Installing a VESA base

The monitor supports VESA mounting standard for use with various VESA mounting devices. This monitor accepts a 75mm x 75mm VESA-compliant mounting interface pad. You need to fold the monitor base before installing a VESA base.



Align **the four bolt holes** (1) on the monitor base with **the holes** (2) on the VESA base and then fasten the base with **the four bolts** (3) supplied.

 \bigtriangledown Only the supplied bolts should be used.

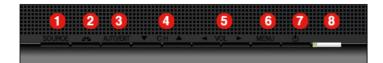
A Samsung Electronics will not be responsible for damages caused by using a base other than those specified.



The control button configuration may vary slightly depending on the monitor model.

Monitor Buttons

W For more information about screen adjustment, refer to On-Screen Display.



1. Source button

Turns on the indicator to indicate the currently displayed input signal.

To switch Screen modes : PC \rightarrow TV \rightarrow Video \rightarrow S-Video (Press here to view Screen Mode Switching Animation Clips)

2. MagicBright[™] button

MagicBright[™] is a new feature providing optimum viewing environment depending on the contents of the image you are watching. (Press here to view MagicBright[™] Animation Clips)

3. AUTO / EXIT button

When screen adjustment menu is on

- : Auto button adjusts the screen automatically
- : Exit button exits from the menu screen or closes screen adjustment menu.

When screen adjustment menu is off . For more information, refer to Direct-Access Features > Auto Adjustment.

4. ▼ CH ▲ button

Moves from one menu item to another vertically or adjusts selected menu values. In TV mode, selects TV channels. For more information, refer to Direct-Access Features > Channel.

5. ◀ VOL ▶ button

Moves from one menu item to another horizontally or adjusts selected menu values. Also adjusts the audio volume. For more information, refer to Direct-Access Features > Volume.

6. MENU button

Use this button to open the OSD and activate a highlighted menu item.

7. Power button

Use this button to turn the monitor on and off.

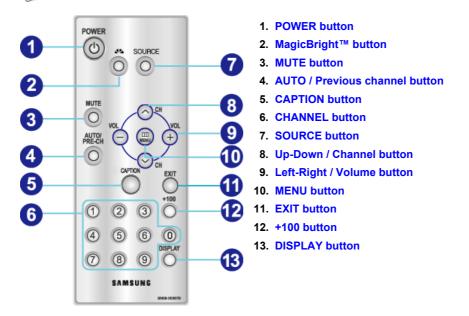
8. Power indicator

Power Indicator shows PowerSaver mode by green blinking. Refer to Specifications > PowerSaver.



Remote Control Buttons

W For more information on the screen adjustment functions, refer to On-Screen Display.



1. Power button Up

Use this button to turn the monitor on and off.

2. MagicBright[™] button Up

MagicBright[™] is a new feature providing optimum viewing environment depending on the contents of the image you are watching. Then push the MagicBright[™] button again to circle through available preconfigured modes.

3. Mute button Up

Pauses (mutes) the audio output temporarily. The audio resumes if Mute or - VOL + button is pressed in the Mute mode.

4. AUTO / Previous channel button Up

PC Mode : AUTO button - Adjusts the screen display automatically. For more information, refer to Direct-Access Features > Auto Adjustment.

TV Mode : PRE-CH button - Tunes to the previous channel.

5. Caption button Up

Turns on Closed Captioning service (in English). In some countries, Caption service is not available. You may turn on Closed Captioning service while viewing certain television programs in countries like the United States or a video tape with a "CC" marking.

6. CHANNEL button - Up

Selects TV channels in the TV mode.

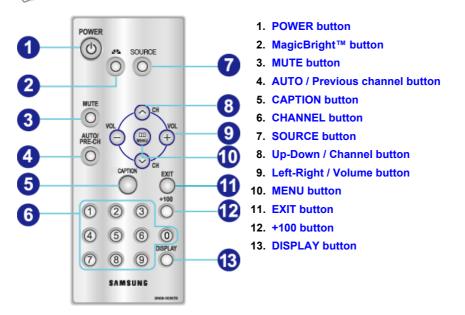
7. SOURCE button Up

Press to display all of the available video sources.



Remote Control Buttons

W For more information on the screen adjustment functions, refer to On-Screen Display.



8. Up-Down / Channel button - Up

Moves from one menu item to another vertically or adjusts the selected menu value. In TV mode, selects TV channels. For more information, refer to Direct-Access Features > Channel.

9. Left-Right / Volume button - Up

Moves from one menu item to another horizontally or adjusts selected menu values. Also adjusts the audio volume. For more information, refer to Direct-Access Features > Volume.

10. MENU button Up

Use this button to open the OSD and activate a highlighted menu item.

11. Exit button AUp

Exits from or closes the menu screen.

12. +100 button - Up

Press to select channels over 100. For example, to select channel 121, press "+100", then press "2" and "1".

13. Display button Vp

Shows a Video Source on the upper left corner of the screen.



Direct-Access Features let you display Monitor Adjustment Menu by simply pressing Auto button once. Or they are used to adjust monitor functions. You need to activate functions other than Auto Adjustment only when Auto-Access Features are off.

Auto Adjustment | OSD Lock/Unlock | Volume | Channel

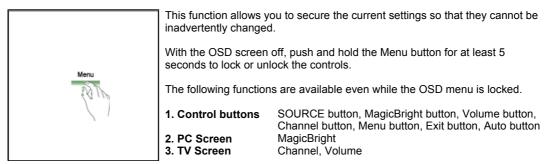
1. Auto Adjustment



The monitor display becomes more stabilized if adjusted by Auto Adjustment functions when the monitor is installed for the first time. Try Auto Adjustment before attempting Manual Adjustment. Ensure the clock frequency of the monitor matches that of the computer video card before carrying out Auto Adjustment.

To make the automatic adjustment function sharper, execute the 'AUTO' function while the AutoPattern.exe is on.

2. OSD Lock/Unlock



With the OSD screen off, push and hold the Menu button for five or more seconds to unlock the OSD settings.

This function is activated by pressing the Menu button on the front panel of the monitor. (It is not available by pressing the Menu button on the remote controller.)



3. Volume



When OSD is not on the screen, push the \triangleleft or \blacktriangleright button to adjust volume.

- Push the < button to decrease the volume.
 Push the ▶ button to increase the volume.

4. Channel



When OSD is not on the screen, push the \blacktriangle or \blacktriangledown button to select channel number.

- Push the ▼ button to decrease the channel number.
 Push the ▲ button to increase the channel number.

This function is available in TV mode only.



W Characters and icons become highlighted in blue during adjustment for each menu.

1. PC Screen For detailed information on Screen Adjustment in the PC mode, refer to PC Screen Adjustment Animation Clips.		
PC	OSD	
0 ¢		
	ontrast djust Contrast.	
	rightness djust Brightness.	
Th Th	blor Control ne tone of color can be changed from redish white to bluish white. The individual color components e also user customizable.	
2) 3) 4)	Normal : Plain white. Warm : Reddish white. Cool : Bluish white. User Mode : User customizable. Reset : Color parameters are replaced with the factory default values.	
Im im	nage Lock nage Lock is used to fine tune and get the best image by removing noises that creates unstable nages with jitters and shimmers. If satisfactory results are not obtained using the Fine adjustment, se the Coarse adjustment and then use Fine again.	
	 Coarse : Removes noise such as vertical stripes. Coarse adjustment may move the screen image area. You may relocate it to the center using the Horizontal Control menu. Fine : Removes noise such as horizontal stripes. If the noise persists even after Fine tuning, repeat it after adjusting the frequency (clock speed). Reset : Image lock and position parameters are replaced with the factory default values. 	
	osition his adjusts the screen location horizontally and vertically.	
	nage Effect nage being displayed can be made softer or sharper.	
	formation isplay current display mode.	



2. TV Screen

For detailed information on Screen Adjustment in TV mode, refer to TV Screen Adjustment Animation Clips. Screen Adjustment in TV mode does not affect the PC screen at all.

Т	OSD
	Channel The channel system can be set in several different ways.
	 1) ANT / CATV Select a channel system that is being used in your region. ANT STD HRC IRC AFN STD, HRC, IRC and AFN identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.
	 2) Auto program The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes. In rare cases, "Auto program" may miss a couple of channels due to weak signals or for other reasons such as a channel does not exist when "Auto program" is executed. 3) Fine Tune Due to weak signals or an incorrect antenna configuration, some of the channels may not be tuned correctly.
	4) Add/Delete Adds or erases channels from the memory.
	Picture Controls TV screen properties such as Contrast, Brightness, Sharpness, Color and Tint.
	 Contrast : Adjust the contrast of TV without affecting PC RGB's contrast. Brightness : Adjust the brightness of TV without affecting PC RGB's brightness. Sharpness : Adjust the sharpness of TV image. Color : Change the richness of color. Tint : Change the tone of color. Reset : Picture parameters are replaced with the factory default values.
(J	Sleep Timer Automatically shuts off the screen at a pre-programmed time (30 min, 60 min, 90 min, 120 min, 150 min, 180 min)
	Closed Caption Enable or disable closed caption feature and set the appearance of closed caption text.
0=	V - Chip (more information) Protects children from viewing inappropriate programs by blocking certain broadcast or video programs.



3. Video Screen

For detailed information on Screen Adjustment in the Video mode, refer to Video Screen Adjustment Animation Clips. Screen Adjustment in the Video mode does not affect the PC screen at all.

Video	
	Picture Controls Video screen properties such as Contrast, Brightness, Sharpness, Color and Tint.
	 Contrast : Adjust the contrast of video without affecting PC RGB's contrast. Brightness : Adjust the brightness of video without affecting PC RGB's brightness. Sharpness : Adjust the sharpness of video image. Color : Change the richness of color. Tint : Change the tone of color. Reset : Picture parameters are replaced with the factory default values.
(J	Sleep Timer Automatically shuts off the screen at a pre-programmed time. (30 min, 60 min, 90 min, 120 min, 150 min, 180 min)
	Closed Caption Enable or disable closed caption feature and set the appearance of closed caption text.
0-	V - Chip (more information) Protects children from viewing inappropriate programs by blocking certain broadcast or video programs.

4. S-Video Screen

For detailed information on Screen Adjustment in the S-Video mode, refer to S-Video Screen Adjustment Animation Clips. Screen Adjustment in the Video mode does not affect the PC screen at all.

S-Video	OSD
	Picture Controls S-Video screen properties such as Contrast, Brightness, Sharpness, Color and Tint.
	 Contrast : Adjust the contrast of S-Video without affecting PC RGB's contrast. Brightness : Adjust the brightness of S-Video without affecting PC RGB's brightness. Sharpness : Adjust the sharpness of S-Video image. Color : Change the richness of color. Tint : Change the tone of color. Reset : Picture parameters are replaced with the factory default values.
Ø	Sleep Timer Automatically shuts off the screen at a pre-programmed time. (30 min, 60 min, 90 min, 120 min, 150 min, 180 min)
	Closed Caption Enable or disable closed caption feature and set the appearance of closed caption text.
0 =	V - Chip (more information) Protects children from viewing inappropriate programs by blocking certain broadcast or video programs.



5. OSD Control

For detailed information on screen adjustment functions, refer to OSD Screen Adjustment Animation Clips.

PC OSD			
$\textcircled{\begin{tabular}{ c c c c } \hline \hline$	Language You can choose one of 4 languages. (English, French, Spanish, Portuguese)		
	Note : The language chosen affects only the language of the OSD. It has no effect on any software running on the computer.		
	Position Move the OSD Window to the vertical and horizontal direction.		
	Halftone Change the opaqueness of the background of the OSD.		
0	Duration The number of seconds that the OSD will remain visible before disappearing.		
\bigcirc	Color Changes the color of the OSD menu screen background.		

6. MagicBright™



MagicBright ${}^{\rm M}$ is a new feature providing optimum viewing environment depending on the contents of the image you are watching.

Currently three different modes are available: User Adjusted, Text, Internet, and Entertain. Each mode has its own pre-configured brightness value. You can easily select one of three settings by simply pressing MagicBright[™] control button. (Press here to view MagicBright[™] Animation Clips)

User Adjusted:	Although the values are carefully chosen by our engineers, the pre-configured values may not be comfortable to your eyes depending on your taste. If this is the case, adjust Brightness and Contrast by using OSD menu.
Text :	Normal Brightness For documentations or works involving heavy text.
Internet :	Medium Brightness For working with mixture of contents such as text and graphics.
Entertain :	High Brightness For watching motion pictures such as DVD and VCD.



Check before calling for service

Check the following items yourself before calling for service. Contact the service center for problems that you cannot solve by yourself.

Self-Test Feature Check | Video mode not supported | Display Adapter Driver | Maintenance and Cleaning | Symptoms & Recommended Actions

1. Self-Test Feature Check

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

- 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.

The figure shown below ("Check Signal Cable") appears on a black background when the monitor is in its normal working condition though it does not sense any video signal: While in the Self-Test mode, the LED power indicator remains green and the figure moves around on the screen.

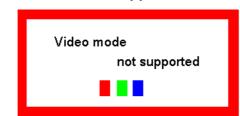
No connection
Check Signal Cable

Failure of any of the boxes to appear indicates a problem with your monitor. This box also appears during normal operation if the video cable becomes disconnected or damaged.

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

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

2. Video mode not supported



This indicates the display resolution or refresh rate is not properly set on your computer video card. Reboot the computer in Safe Mode and select "Default" in the "Refresh Rate Unknown" box while setting Adapter for Display Properties.

秋 Contact the computer dealer or manufacturer for information on Safe Mode Booting.

Refer to Specifications > Preset Timing Modes for the resolutions or frequencies that are supported by the monitor.

If the vertical frequency is set to 85Hz or higher, "Video mode not Supported' message is displayed in Halftone. Adjust the vertical frequency to 75Hz or lower when this message appears on the screen.



Check before calling for service

3. Display Adapter Driver

Display adapter refers to the computer video card driver. If the adapter is not properly set, you cannot adjust resolution, frequency or color and you cannot install the monitor driver.

1. Checking Adapter Driver

Click Start --> Settings --> Control Panel --> Display --> Settings --> Advanced --> Adapter. If "Default" or a wrong product model is indicated, it means that the adapter driver is not properly installed. Install the adapter driver again according to the information provided by the computer or video card manufacturers.

- 2. Installing Adapter Driver
 - The instructions given below are for general circumstances. For specific issues, contact the relevant computer or video card manufacturers.
 - Click Start --> Settings --> Control Panel --> Display --> Settings --> Advanced --> Adapter -->
 Update Driver --> Next --> Display a list of the known drivers for this device so that I can
 choose a specific driver --> Next -> Have Disk (Insert Video Card Driver diskette) -> OK -> Next
 -> Next -> Finish.
 - In case you have Adapter Driver Setup file on your computer: Run Setup.exe or Install.exe, which is found in the Adapter Driver Setup file.

4. Maintenance and Cleaning

 Maintaining the Monitor Case Clean with a soft cloth after disconnecting the power cord.



- Do not use benzene, thinner or other flammable substances, or a wet cloth.
- We recommend a Samsung cleansing agent is used to prevent damage to the screen.
- 2. Maintaining the Flat Panel Display Screen Clean with a soft cloth (cotton flannel) smoothly.



- Never use acetone, benzene or thinner.
- (They may cause flaws or deformation of the screen surface.)The user will be required to pay costs and related expenses for repair of damages caused by him/her.

5. Symptoms and Recommended Actions

- A monitor recreates visual signals received from the PC. Therefore, if there is trouble with the PC or the video card, this can cause the monitor to become blank, have poor coloring, noise, Video mode not supported, etc. In this case, first check the source of the problem, and then contact a service center or your dealer.
 - 1. Check if the power cord and the cable 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. (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.



Problems and Solutions

The following table lists possible problems and their solutions. 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 warranty card, the phone number on the Information section or contact your dealer.

1. Problems related to Installation

 \bigtriangledown Problems related to the monitor installation and their solutions are listed.

Problems	Solutions		
It appears the PC does not function normally.	Check if the Display Adapter Driver (VGA Driver) is properly installed. (Refer to Installing Driver)		
The monitor screen flickers.	 Check if the signal cable between the computer and the monitor is securely connected and tightened. (Refer to Connecting to a Computer) 		
TV screen is blurred or shows noise signals.	 Check if the TV antenna connector is securely connected to the external antenna. (Refer to Connecting to TV) 		
TV signal is not received	Select "Auto Program" to configure the channel system automatically. (Refer to the Auto Program)		

2. Problems related to Screen

V Problems related to the monitor screen and their solutions are listed.

Problems	Solutions			
Screen is blank and power indicator is off	Ensure that the power cord is firmly connected and the LCD monitor is on. (Refer to the Connecting Your Monitor)			
"Check Signal Cable" message	 Ensure that the signal cable is firmly connected to the PC or video sources. (Refer to the Connecting Your Monitor) Ensure that the PC or video sources are turned on. 			
"Video mode not supported" message	 Check the maximum resolution and the frequency of the video adaptor. Compare these values with the data in the Preset Timing Modes Chart. 			
Picture rolls vertically.	Check if the signal cable is securely connected. Connect it again securely.(Refer to Connecting to a Computer)			
Image is not clear. Picture is blurred.	 Run Frequency Coarse and Fine tuning. Turn on again after removing all accessories (video extension cable, etc.) Set resolution and frequency to the recommended ranges. 15 inch model (1024 x 768 @ 60Hz), 17 inch model (1280 x 1024 @ 60Hz) 			



Problems and Solutions

Problems	Solutions			
Picture image is unstable and vibrates.	 Check if the resolution and frequency set for the computer video card falls in the range supported by the monitor. If not reset them referring to the current Information under the 			
Ghost images are shown in the picture.	monitor menu and Preset Timing Modes.			
The image is too light or too dark	Adjust the Brightness and Contrast. (Refer to the Brightness, Contrast)			
Screen color is inconsistent.	 Adjust color using User Mode under OSD Color Adjustment menu. 			
Color image is distorted with dark shadows.				
White color is poor.				
Power Indicator blinks green.	 The monitor is currently saving the changes made in settings to the OSD memory. 			
Screen is blank and power indicator light is steady green or blinks every 0.5 or 1 seconds	The monitor is using its power management system.Move the computer's mouse or press a key on the keyboard			
The monitor front control buttons do not respond.	 Check if OSD Lock/Unlock is on by pressing Menu button. If the problem persists, contact the service center. 			

3. Problems related to Audio

 \bigtriangledown Problems related to audio signals and their solutions are listed below.

Problems	Solutions	
No sound	 Ensure that the audio cable is firmly connected to both the audio-in port on your monitor and the audio-out port on your sound card. (Refer to the Connecting Your Monitor) Check the volume level. (Refer to the Volume) 	
Sound level is too low.	 Check the volume level. (Refer to the Volume) If the volume is still too low after turning the control to its maximum, check the volume control on the computer sound card or software program. 	

4. Problems related to Remote Control

V Problems related to the remote control and their solutions are listed.

Problems	Items to check	
The remote control buttons do not respond.	 Check the battery polarities (+/-). Check if the batteries have been exhausted. Check if the power is on. Check if the power cord is securely connected. Check if a special fluorescent or neon lamp is on in the vicinity. 	



Q & A

W Frequently asked questions are summarized here for your reference.

Question	Answer
How can I change the frequency?	Frequency can be changed by reconfiguring the video card.
	Note that video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)
How can I adjust the resolution?	Windows XP: Reset resolution by clicking Control Panel \rightarrow Appearance & Theme \rightarrow Display \rightarrow Settings.
	Windows ME/2000: Set the resolution at the Control Panel \rightarrow Display \rightarrow Settings.
	* Contact the video card manufacturer for details.
How can I set the Power Saving function?	Windows XP: Reset Power Saving parameters by clicking Control Panel → Appearance & Theme → Display → Screen Saver or in the computer BIOS SETUP. (Refer to Windows/Computer Manual)
	Windows ME/2000: Set the function at BIOS-SETUP of the computer or the screen saver. (Refer to Windows/Computer Manual).
How can I clean the outer case/LCD Panel?	Disconnect the power cord and then clean the monitor with a soft cloth, using either a cleaning solution or plain water.
	Do not leave any remains of the detergent nor scratch the case. Do not allow any water to go inside the monitor.



SyncMaster 510MP

 \bigtriangledown Design and specifications are subject to change without prior notice.

General		
Model Name	SyncMaster 510MP	
LCD Panel		
Size	15.0 inch (Diagonal)	
Display area	304.1 (H) x 228.1 (V)	
Pixel Pitch	0.297 (H) x 0.297 (V)	
Туре	a-si TFT active matrix	
Synchronization		
Horizontal	31 ~ 61 kHz	
Vertical	56 ~ 75 Hz	
Display Color		
16,194,277 Colors		
Resolution		
Optimum resolution	1024 x 768@60Hz	
Maximum resolution	1024 x 768@75Hz	
Input Signal, Terminated		
RGB Analog, Composite H/V, 0. Separate H / V sync, TTL level p		
TV / Video		
Color system	NTSC	
Sound system	M/N	
Video format	CVBS, S-VHS	
Maximum Pixel Clock		
80 MHz		
Power Supply		
90 to 264 VAC 60/50 ± 3Hz		
Signal Cable		
15pin-to-15pin D-sub cable, deta	achable	
Power Consumption		
Less than 42W		
Power Saving		
Less than 2W		
Dimensions (WxDxH) / Weight		
355 x 184.2 x 358.5 mm / 3.2 kg (After installation of Stand)		
355 x 56 x 343.5 mm (Without Stand)		
VESA Mounting Interface		
75mm x 75mm (for use with Specialty(Arm) Mounting hardware.)		



SyncMaster 510MP

Environmental considerations			
Operating	Temperature : 50°F ~ 104°F(10°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.

Dot Acceptable

TFT LCD panel manufactured by using advanced semiconductor technology with precision of 99.999% above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without uneasiness.

The number of TFT LCD pixels :

15 inch: 2,359,296
17 inch: 3,932,160



SyncMaster 710MP

 \bigtriangledown Design and specifications are subject to change without prior notice.

General			
Model Name	SyncMaster 710MP		
LCD Panel			
Size	17.0 inch (Diagonal)		
Display area	337.92 (H) x 270.336 (V)		
Pixel Pitch	0.264 (H) x 0.264 (V)		
Туре	a-si TFT active matrix		
Synchronization			
Horizontal	31 ~ 81 kHz		
Vertical	56 ~ 75 Hz		
Display Color			
16,194,277 Colors			
Resolution			
Optimum resolution	1280 x 1024@60Hz		
Maximum resolution	1280 x 1024@75Hz		
Input Signal, Terminated			
RGB Analog, Composite H/V, 0.7Vp-p Positive at 75 ohm, Separate H / V sync, TTL level p	positive or negative		
TV / Video			
Color system	NTSC		
Sound system	M/N		
Video format	CVBS, S-VHS		
Maximum Pixel Clock			
140 MHz			
Power Supply			
90 to 264 VAC 60/50 ± 3Hz			
Signal Cable			
15pin-to-15pin D-sub cable, detachable			
Power Consumption			
Less than 43W			
Power Saving			
Less than 2W			
Dimensions (WxDxH) / Weight			
389 x 206 x 402.5 mm / 5.35 kg (After installation of Stand)			
389 x 63 x 386mm (Without Stand)			
VESA Mounting Interface			
75mm x 75mm (for use with Specialty(Arm) Mounting hardware.)			



SyncMaster 710MP

Environmental considerations		
Operating	Temperature : 50°F ~ 104°F(10°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.

Dot Acceptable

TFT LCD panel manufactured by using advanced semiconductor technology with precision of 99.999% above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without uneasiness.

The number of TFT LCD pixels :

15 inch: 2,359,29617 inch: 3,932,160



PowerSaver

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

SyncMaster 510MP

State	Normal Operation	Power saving mode EPA/ENERGY 2000	Power Switch off (110 Vac)
Power Indicator	Green	Green, Blinking	Black
Power Consumption	Less than 42W	Less than 2W	Less than 1W

SyncMaster 710MP

State	Normal Operation	Power saving mode EPA/ENERGY 2000	Power Switch off (110 Vac)
Power Indicator	Green	Green, Blinking	Black
Power Consumption	Less than 43W	Less than 2W	Less than 1W



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.



Preset Timing Modes

SyncMaster 510MP

V 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.

		Vertical Frequency	Divel Cleak	Suno Dolority
Display Mode	Horizontal Frequency (kHz)	(Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+,-/+,-
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+

Table 1. Preset Timing Modes

Table 2. NTSC Broadcasting Systems

Color System	Sound System	Channel System	Countries
NTSC	М	US	USA, Canada, Chile, Venezuela, Cuba, Colombia, Jamaica, Mexico, Panama, Peru, Philippines, Puerto- Rico, Taiwan



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



Preset Timing Modes

SyncMaster 710MP

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.

Vertical Frequency Pixel Clock (MHz) **Horizontal Frequency** Sync Polarity **Display Mode** (kHz) (H/V) (Hz) MAC, 640 x 480 35.000 66.667 30.240 -/-MAC, 832 x 624 -/-49.726 74.551 57.284 IBM, 640 x 350 31.469 70.086 25.175 +/-IBM, 640 x 480 -/-31,469 59.940 25.175 IBM, 720 x 400 31.469 70.087 28.322 -/+ VESA, 640 x 480 37.500 75.000 31.500 -/-VESA, 640 x 480 37.861 72.809 31.500 -/-VESA, 800 x 600 35.156 56.250 36.000 +,-/+,-VESA, 800 x 600 37.879 60.317 40.000 +/+ VESA, 800 x 600 46.875 75.000 49.500 +/+ VESA, 800 x 600 48.077 72.188 50.000 +/+ VESA, 1024 x 768 48.363 60.004 65.000 -/-VESA, 1024 x 768 56.476 70.069 75.000 -/-VESA, 1024 x 768 60.023 75.029 78.750 +/+ VESA, 1280 x 1024 63.981 60.020 108.00 +/+ VESA, 1280 x 1024 79.976 75.025 135.00 +/+ VESA, 1280 x 1024 81.129 76.106 135.00 -/-

Table 1. Preset Timing Modes

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NTSC	М	US	USA, Canada, Chile, Venezuela, Cuba, Colombia, Jamaica, Mexico, Panama, Peru, Philippines, Puerto- Rico, Taiwan



Horizontal Frequency

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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 Center

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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/

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> 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/

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Samsung Electronics Mexico S.A. de C.V. Saturno No.44, Col. Nueva Industrial Vallejo Gustavo A. Madero C.P. 07700, Mexico D.F. Mexico Tel. 52 55 57 47 51 00 Fax. 52 55 57 47 52 02 RFC: SEM950215S98 http://www.samsung.com.mx/

IMPORTADO POR: SAMSUNG ELECTRONICS MEXICO. S.A. DE C.V. Saturno No.44, Col, Nueva Industrial Vallejo Gustavo A.Madero C.P. 07700, Mexico D.F. Mexico TEL. 52-55-5747-5100

EXPORTADO POR: Samsung Electronics Co., Ltd. 416, Mae tan-3dong, Yeongtong-Gu, Suwon City, Kyungki-Do Koera



Terms

Sync Signal

Sync (Synchronized) Signals refer to the standard signals that are required to display desired colors on the monitor. They are divided into Vertical and Horizontal Sync Signals. These signals display normal color images by the set resolution and frequency.

Types of Sync Signals

Separate	This is a scheme of transmitting individual vertical sync signals to the monitor.
Composite	This is a scheme of combining vertical sync signals into one composite signal and transmitting it to the monitor. The monitor displays the color signals by separating the composite signal into original color signals.
Sync On Green	This scheme does not use sync signals. Instead, it combines horizontal and vertical sync signals into a Green signal and transmits to the monitor. It is mainly used for workstations.

Dot Pitch

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

Vertical Frequency

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

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

Horizontal Frequency

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

Interlace and Non-Interlace Methods

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

Plug & Play

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

Resolution

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

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

🕘 A2

This system uses two carriers to transmit voice data. Countries such as South Korea and Germany use this system.

BTSC

Broadcast Television System Committee

The stereo broadcasting system that is used in most of the countries that have adopted the NTSC system, including the United States, Canada, Chile, Venezuela and Taiwan. It also refers to the organization that has been organized to promote its development and management.

EIAJ

Electronic Industries Association of Japan



FCC Information | IC Compliance Notice | MPR II Compliance | European Notice (Europe only) | PCT Notice | VCCI | 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)

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 Règlemont 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 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
- EN55013:1990+A12:1994+A13:1996+A14:1999 Radio Frequency Interference
- EN55020:1994+A11:1996+A12/A13/A14:1999 Electromagnetic Immunity
- EN61000-3-2:1995+A1/A2:1998 Power Line Harmonics
- EN61000-3-3:1995 Voltage Fluctuations
- EN60065:1997 or EN60950:1998 Product Safety

PCT Notice



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.



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



AB general requirements

AB2 Written Eco-document acompanying the products

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

Why do we have environmentally-labelled monitors?

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

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

What does labelling involve?

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

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

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

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

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



Environmental Requirements

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

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

Lead

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

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

Cadmium

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

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

Mercury

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

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

CFCs (freons)

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

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



TCO'99-Ecological requirements for personal computers (TCO'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 labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO(The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen(The Swedish Society for Nature Conservation), Statens Energimyndighet(The Swedish National Energy Administration) and SEMKO AB.

The requirements cover a wide range of issuse: environment, ergonomics, usability, reduction of electric and magnetic fields, energy consumption and electrical 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 has been developed by Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation). These demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs(freons)and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy.

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

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

TCO Development

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

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



Environmental requirements

Flame retardants

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

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

Cadmium**

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

Mercury**

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

CFCs (freons)

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

Lead**

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

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

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



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)

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	ELKRETSEN	Elektronikkretur AS	vfw AG
ADDRESS	442 Frelinghuysen Ave Newark, NJ 07114	ELKRETSEN 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	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_Disposal.htm	http://www.el- kretsen.se/	http://www.elretur.no/	



Natural Color

Natural Color Software Program



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

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



For Better Display

For Better Display

 Adjust computer resolution and screen injection rate (refresh rate) in control panel of computer as described below to enjoy the best quality of picture. You can have an uneven quality of picture in the screen if the best quality of picture is not provided in TFT-LCD.

SyncMaster 510MP

- o Resolution: 1024 x 768
- o Vertical frequency (refresh rate): 60 Hz

SyncMaster 710MP

- o Resolution: 1280 x 1024
- o Vertical frequency (refresh rate): 60 Hz
- TFT LCD panel manufactured by using advanced semiconductor technology with precision of 99.999% above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without uneasiness.

SyncMaster 510MP

o For example, the number of TFT LCD pixels that is contained in this product are 2,359,296.

SyncMaster 701MP

o For example, the number of TFT LCD pixels that is contained in this product are 3,932,160.

- 3. When you clean the monitor and the panel outside, please apply the recommended small amount of cleaner by using soft and dry cloth and polish it. Let LCD area not to be forced but to be scrubbed out softly. If excessive force is applied, you can have a stain on it.
- 4. If you are not satisfied with the quality of picture, you can get better quality of picture by executing "auto adjustment function" in display screen that is appeared as window termination button is pressed. If there's still noise after automatic adjustment, use FINE/COARSE adjustment function.
- 5. If you view a fixed screen for an extended period of time, residual image or blurriness may appear. Change the mode to energy save or set a screensaver to moving picture when you need to be away from the monitor for an extended period of time.



Authority

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