SyncMaster 173VT / 710VT









Do not touch

•

Grounding to prevent an electric shock





On not connect too many extension cords or plugs to an outlet.

• This may cause fire.

Introduction	Setup	Adjusting Your Monitor	Troubleshooting	Specifications	Information
			English > Main >	Safety Instructions	> Installation
À	locatio	n with the heavy dust, high	or low temperatures	s, high humidity, ch	emical
	Failure	e to do so may cause a serio	ous damage to your	monitor.	
	🥥 Pi	-		-	
	G D	-	-	human body.	
		ase does not protrude fro	n the showcase or	shelf.	
	Introduction	Image: Additional system Be sur location substated. Failure Failure Image: Additional system Image: Additional system Image: Addititititititititititititititititititi	Be sure to contact an authorized S location with the heavy dust, high substance and where it operates f etc. Failure to do so may cause a serie Put your monitor in a locati Failure to do so may cause a serie Do not drop the monitor where This may cause damage Install the monitor base in a base does not protrude from Dropping the product m	English > Main > Image: Constraint of the source of contract an authorized Service Center, when location with the heavy dust, high or low temperatures substance and where it operates for 24 hours such as etc. Failure to do so may cause a serious damage to your Image: Constraint of the source of the sou	English > Main > Safety Instructions Image: Second Secon



Do not place the product on an unstable or small surface area.

• Place the product on an even, stable surface, as the product may fall and cause harm to someone walking by, specifically children.



Do not place the product on the floor.

• Someone, specifically children could trip over it.



- Keep any flammable objects such as candles, insecticides or cigarettes away from the product.
 - Otherwise, this may cause a fire.

Seep any heating devices away from the power cable.

• A melted coating may lead to electric shock or fire.





- Do not install the product in places with poor ventilation, for instance, a bookshelf, closet, etc.
 - Any increase in internal temperature may cause fire.



- Set down the monitor carefully.
 - The monitor 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.



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

Index Safety Instruct	ons Introduction	Setup Adjusting Your Monitor Troubleshooting Specifications Information
Safety Instructions Safety Instructions Notational Power Installation Cleaning Others	À	English > Main > Safety Instructions > Cleaning When cleaning the monitor case or the surface of the TFT-LCD screen, wipe with a slightly moistened, soft fabric.
		 Do not spray water or detergent directly on the monitor. This may cause damage, electric shock or 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 may cause an electric shock or fire.
		 Make sure to unplug the power cord before cleaning the product. Otherwise, this may cause electric shock or fire.
		Unplug the power cord from the power outlet and wipe the product using a soft, dry cloth.

• Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent.



- Contact the Service Center or Customer Center for interior cleaning once a year.
 - Keep the product's interior clean. Dust which has accumulated in the interior over an extended period of time may cause malfunction or fire.





• 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 fire.
 - If a foreign substance enters the monitor, unplug the power cord and contact the Service Center.



- Keep the product away from combustible chemical sprays or inflammable substances.
 - This may cause an explosion or fire.



Never insert anything metallic into the monitor openings.

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



- Do not insert metal objects such as chopsticks, wire and gimlet or inflammable objects such as paper and match into the vent, headphone port or AV ports.
 - It may cause a fire or an electric shock. If an alien substances or water flows into the product, turn the product off, unplug the power connector from the wall outlet and contact Service Center.



- 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.



- Adjust the resolution and frequency to the levels appropriate for the model.
 - Inappropriate resolution may cause undesirable picture quality.
 - 17 inch (43 cm) 1280 X 1024



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



To ease eye strain, take at least a five-minute break after every hour of using the monitor.



- Do not install the product on an unstable, uneven surface or a location prone to vibrations.
 - Dropping the product may cause damage to the product or personal injury. Using the product in a location prone to vibrations may shorten the lifetime of the product or may catch fire.



When moving the monitor, turn off and unplug the power cord. Make sure that all cables, including the antenna cable and cables connecting to other devices, are disconnected before moving the monitor.

• Failure to disconnect cables may damage it and lead to fire or an electric shock.



Place the product out of children's reach, as they could damage it by hanging onto it.

• A falling product could cause physical damage even death.



- When not using the product for an extended time period, keep the product unplugged.
 - Otherwise, this may cause heat emission from the accumulated dirt or degraded insulation, leading to electric shock or fire.



- Do not place children's favorite objects (or anything else that may be tempting) on the product.
 - Children may try to climb on the product to retrieve an object. The product could fall, causing physical damage or even death.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment) - Europe only



(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.





Index | Safety Instructions | Introduction | Setup | Adjusting Your Monitor | Troubleshooting | Specifications

5. MagicBright button

MagicBright[™] is a new feature providing optimum viewing environment depending on the contents of the image you are watching. Currently four different modes are available: User Adjusted, Text, Internet, and Entertain. Each mode has its own pre-configured brightness value. You can easily

Information

select one of four settings by simply pressing MagicBright[™] control button.

1) User Adjusted

Although the values are carefully chosen by our engineers, the preconfigured values may not be comfortable to your eyes depending on your taste.

If this is the case, adjust the brightness and contrast by using the OSD menu.

2) Text : Normal brightness

For documentations or works involving heavy text.

3) Internet : Medium brightness

For working with a mixture of images such as text and graphics.

- 4) Entertain : High brightness
 - For watching motion pictures such as a DVD or VCD.

6. Adjust buttons These buttons allow you to highlight and adjust items in the menu.

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.

Index Safety Instructions Introduction Setup Adjusting Your Monitor Troubleshooting Specifications Information English > Main > Introduction > Rear I

UnpackingFrontRear



(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. Touchscreen cable	Connect the touchscreen cable to an available serial communication (COM) port on the back of your computer.

Note: See Connecting the Monitor for further information regarding cable connections.

Index | Safety Instructions | Introduction | Setup | Adjusting Your Monitor | Troubleshooting | Specifications | Information English > Main > Setup > Connecting the Monitor > Connecting to a Computer New Model Macintosh Rear of Computer Rear of Monitor Setup 4 Connecting the Monitor Installing the 00 **Monitor Driver** Installing a VESA base Old Model Macintosh 13.0 2 3 e.

- 1. Connect the power cord for your monitor to the power port on the back of the monitor. Plug the power cord for the monitor into a nearby outlet.
- 2. Connect the signal cable to the 15-pin, D-sub connector on the back of your monitor.
- 3. Connect the touchscreen cable to an available serial communication (COM) port on the back of your computer.
 - If the COM port has a 9-pin connector, attach the touchscreen cable directly to the port.
 - If the COM port has a 25-pin connector, first attach a 9-pin to 25-pin adapter (not included) to the end of the touchscreen cable, and then attach the cable to the port.

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- 4. Connect the monitor to the Macintosh computer using the D-SUB connection cable.
- 5. In the case of an old model Macintosh, you need to connect the monitor using a special Mac adaptor.
- 6. Turn on your computer and monitor. If your monitor displays an image, installation is complete.

English > Main > Setup > Installing the Monitor Driver > Automatic	Index Safety Inst	tructions Introduction Setup	Adjusting Your Monitor	Troubleshooting	Specifications	Information
 Setup Connecting the Monitor Installing the Monitor Driver Installing a VESA base Mennet a blank disk and download the driver program file at the Internet web site shown here. Internet web site : http://www.samsung.com/monitor/ (U.S.A) http://www.sec.co.kr/monitor/ (Korea) 	Setup Connecting the Monitor Installing the Monitor Driver Installing a VESA	 Automatic Manual When prompted by the o this monitor. Driver insta the directions as approputed Prepare a blank disk and content Internet web site : http:// http:// 	English > Ma perating system for the m illation is slightly different riate for the operating sys download the driver program www.samsung.com/monitor/ (www.samsung.com/monitor/ (in > Setup > Installing nonitor driver, inse t from one operatir stem you have. n file at the Internet w Worldwide) U.S.A)	g the Monitor Driver rt the CD-ROM inc ng system to anoti	luded with her. Follow

http://www.samsungmonitor.com.cn/ (China)

Windows ME | Windows XP/2000

1. Windows ME

- 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-ROM driver.
 - 2. Click "Windows ME Driver"
 - 3. Choose your monitor model in the model list, then click the "OK" button.

Samsung №	1onitor Setup for Windows ME	
Pick the	display adapter on which you want to install th	e monitor
Intel740	Compatible Graphics Adapter	*
	Currently installed monitor	
	Pick the monitor which you want to install	
	ter 152MP, SyncMaster Magic CX157A(P)-G ter 172MP, SyncMaster Magic CX177A(P)-G	
	Cancel	OK

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



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

	display adapter on which you want to install th	e monitor
Intel740	Compatible Graphics Adapter	-
P	Currently installed monitor	
	Pick the monitor which you want to install	
	ster 152MP, SyncMaster Magic CX157A(P)-G ster 172MP, SyncMaster Magic CX177A(P)-G	
	Cancel	OK

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 152MPH72MP, SyncMaster Magie CX157/177A(P)-G has not passed Windows Logo testing to verify its compatibility with Windows XP; (Let me who this testing is mootart.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway

- This monitor driver is under a certified MS logo. This installation will not damage your system. The certified driver will be posted on Samsung Monitor Homepage http://www.samsung.com/monitor/
- 6. Monitor driver installation is completed.





To install the monitor driver manually, follow the procedures explained below after checking your operating system.

http://www.samsungmonitor.com.cn/ (China)

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

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

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



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

Appearance and Thomes	Display Properties
5e βit 5ee feorles 3xk 546 @ Bek + ② - β βerk ⊙tikes □+ μ	Themes Desktop Screen Saver Appearance Settings
Approx 20 Approximate of theme	
Instant de de la balance Instante Instant de la balance	Display: on Intelf40 Compatible Graphics Adapter
St price a Control i unici recit Summer 💕 fabricatea Estata ad Sat Yea	Screen resolution Less More 1024 by 768 pixels
g in gas	Iroubleshoot 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.

	Hansol 920D Properties	<u>? 🔀</u>	Hardware Update Wizard	
	General Driver Hansol 320D			Welcome to the Hardware Update Wizard
	Driver Provider: Microsoft			This wizard helps you install software for.
I	Driver Date: 6/6/2001			Hansol 9200
I	Driver Version: 5.1.2001.0			
	Digital Signer: Microsoft Windows XP Publisher Driver Details To view details about the driver files.			If your hardware came with an installation CD or floppy disk, insert it now.
	Update Driver To update the driver for this device.			What do you want the wizard to do? O Install the software automatically (Recommended)
	<u>Roll Back Driver</u> If the device fails after updating the driver back to the previously installed driver.	x, roll		Install from a list or gpecific location (Advanced)
	Uninstal To uninstall the driver (Advanced).			Click Next to continue.
	OK	Cancel		(Back Next) Cancel

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

Hardware Update Wizard	Hardware Update Wizard
Please choose your search and installation options.	Select the device driver you want to install for this hardware.
Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.	Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Search removable goda (lloppy, CD ROK) Include that location in the search ArtSC12004-Tr_2000 wire2000 Source the option to select the driver to install Dhoose this option to select the driver to install Choose this option to select the driver down hore a list. Windows does not guarantee that the driver you choose will be the best match for your hadware.	✓ Show gongabble hardware Model ✓ Hancel S000 ✓ Hancel S000 ✓ Flug and Play Monitor ✓ This driver is diptably signed.
< Back Next> Cancel	<gack next=""> Cancel</gack>

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

Install F	rom Disk		Hardware Update Wizard Select the device driver you want to install for this hardware.
	Inset the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel	Select the winds when you have to introl to use naturation 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. Model SyncMaster 152MP SyncMaster 152MP
	Copy manufacturer's files from:		This driver is not digitally signed! <u>Idl me why driver isono is important</u>
	<u>AN</u>	Browse	< Back Next > Cancel

8. 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 152MP has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

- This monitor driver is under a certified MS logo. This installation will not damage your system. X The certified driver will be posted on Samsung Monitor Homepage http://www.samsung.com/monitor/
- 9. Click the "Close" button then click "OK" button continually.

Completing the Hardware Update biggs of the stating the software for SpicMaster 152MP Dick Finish to close the wicard	
K Back Finish Cancel	
SyncMaster 152MP Properties	SyncMaster 152MP and Intel740 Compatible Grapid 🛜 🔀
General Driver	Count Alexa Meeter Tools to a Chattaneer
General Driver	General Adapter Monitor Troubleshoot Color Management
SyncMaster 152MP	SyncMaster 152MP
Driver Provider: Samsung	Properties
Driver Date: 2/6/2002	Madauatian
Driver Version: 1.0.0.0	Monitor settings
	Screen refresh rate:
Digital Signer: Not digitally signed	75 Hertz
	Differendes that this works count for law
Driver Details To view details about the driver files.	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
Ugdate Driver To update the driver for this device.	and/or damaged hardware.
Roll 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
Cose Carter	UN Carter Sppy

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:(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..".
 - 4. Choose "Monitor".
 - If the "Properties" button is inactive, it means your monitor is properly configured. Case 1: Please stop installation.
 - If the "Properties" button is active, click the "Properties" button then follow next steps Case 2: continually.

- 5. Click "Driver" and then click on "Update Driver.." then click on the "Next" button.
- 6. Choose "Display a list of the known drivers for this device so that I can choose a specific driver" then click "Next" and then click "Have disk".
- 7. Click the "Browse" button then choose A:(D:\Driver).
- 8. Click the "Open" button, then click "OK" button.
- 9. Choose your monitor model and click the "Next" button then click "Next" button.
- 10. Click the "Finish" button then the "Close" button.

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



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. 3.
- 4.
- Click the "Change" button in the "Monitor Type" area. 5.
- 6. Choose "Specify the location of the driver"
- Choose "Display a list of all the driver in a specific location.." then click "Next" button. Click the "Have Disk" button 7.
- 8.
- 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 "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.

(You 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 Tab and then click All Display Modes.
- Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then 3. click OK.
- 4. Click Apply button if you see the screen working normally after clicking Test. If the screen is not normal, change to a different mode (lower mode of resolution, colors or frequency).
- If there is no Mode at All Display Modes, select the level of resolution and vertical frequency by X referring to the Preset Timing Modes in the user guide.



5. 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.
- The third screen is for setting your mouse. 2.
- Set a mouse for your computer. 3.
- The next screen is for selecting a keyboard. 4.
- Set a Keyboard for your computer. 5.
- The next screen is for setting your monitor. 6.
- First of all, set a horizontal frequency for your monitor. (You can enter the frequency directly.) 7
- Set a vertical frequency for your monitor. (You can enter the frequency directly.) 8.
- 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.





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



Attaching a base

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



- 1. Rear cover mounting pad
- 2. Mounting interface pad

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



[On-Screen Display]







Adjusting Your LCD Monitor

Simply move your mouse over each topic to view information about the on-screen menu.

Adjustment Menu

- Brightness Contrast
- Color Temperature
 Color Control

Menu Position

- H-Position - V-Position

Auto

- Image Lock • Language
 - Halftone
- Coarse
- Position

- Fine

- H-Position
- V-Position
- Menu Display Time Reset Display Mode
- Geometry Reset
- Color Reset MagicBright
- OSD Lock/Unlock
- 1. Auto/Exit Button
- 2. Menu Button
- 3. Adjust Button
- a. MagicBright Button

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

English > Main > Troubleshooting > Check List

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 Note or contact your dealer.

Symptom	Check List	Solutions		
No images on the screen. I cannot turn on the monitor.	Is the power cord connected properly?	Check the power cord connection and supply.		
	Can you see "No Connection, Check Signal Cable" on the screen?	Check the signal cable connection.		
	If the power is on, reboot the computer to see the initial screen (the login screen), which can be seen.	If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows 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 "Video mode not supported" on the screen?	You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can properly handle.		
		Adjust the maximum resolution and frequency that the monitor can properly handle.		
	There is no image on the screen. Is the power indicator on the	The monitor is in PowerSaver mode.		
	monitor blinking at 1 second intervals?	Press a key on the keyboard or move the mouse to activate the monitor and restore the image on the screen.		
I cannot see the On Screen Display.	Have you locked the On Screen Display (OSD) Menu to prevent changes?	Unlock the OSD by pressing the MENU button for at least 5 seconds.		
The screen shows strange colors or just	Is the screen displaying only one color as if looking at the screen	Check the signal cable connection.		
black and white.	through a cellophane paper?	Make sure the video card is fully inserted in it's slot.		
	Have the screen colors become strange after running a program or due to a crash between applications?	Reboot the computer.		
	Has the video card been set properly?	Set the video card by referring to the video card manual.		
The screen suddenly has become unbalanced.	Have you changed the video card or the driver?	Adjust screen image position and size using the OSD.		
	Have you adjusted the resolution or frequency to the monitor?	Adjust the resolution and frequency at the video card. (Refer to the Preset Timing Modes).		
	The screen can be unbalanced due Readjust Position by referring to th	e to the cycle of the video card signals. he OSD.		
		Γ		

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).
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	Have the Windows colors been set properly?	For Windows ME/XP/2000: Set the colors properly at the Control Panel, Display , Settings .
after changing the video card.	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	Have you installed the monitor driver?	Install the monitor driver according to the Driver Installation Instructions.
monitor, Plug & Play (VESA DDC) monitor found".	See the video card manual to see if the Plug & Play (VESA DDC) function can be supported.	Install the monitor driver according to the Driver Installation Instructions.

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

- 1. Check if the power cord and the 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 56Hz or 75Hz.
- (Do not exceed 75Hz when using the maximum resolution.) If you have problems in installing the adapter (video) driver, boot the computer in Safe Mode, remove the 5. 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.

English > Main > Troubleshooting > Q & A



Troubleshooting

Check List

- ▶ Q & A
- Self-Test Feature Check

Question	Answer		
How can I change the frequency?	Frequency can be changed by reconfiguring the video card.		
	Note that video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)		
How can I adjust the resolution?	Windows ME/XP/2000: Set the resolution at the Control Panel , Display , Settings .		
	* Contact the video card manufacturer for details.		
How can I set the Power Saving function?	Windows ME/XP/2000: Set the function at BIOS-SETUP of the computer or the screen saver. (Refer to Windows/Computer Manual).		
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.		



3. Turn on the monitor.

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

The three boxes inside the border are red, green and blue.



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

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

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



Warning Messages

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



Environment

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

- 1. If there are any 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.



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, Video mode not supported, 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 "Video mode not supported" message comes up, disconnect the cable from the computer while the monitor is still powered on.
 - $\circ\,$ If there is a message coming up on the screen or if the screen goes white, this means the o In this case, check the computer for trouble.



General Model Name English > Main > Specifications > General Specifications



General

- PowerSaver
- **Preset Timing** Modes

Model Name	SyncMaster 173VT / 710VT		
LCD Panel			
Size	17 " Diagonal (43 cm)		
Display area	337.92 mm (H) x 270.336 mm (V)		
Pixel Pitch	0.264 mm (H) x 0.264 mm (V)		
Туре	a-si TFT active matrix		
Synchronization			
Horizontal	30 ~ 81 kHz		
Vertical	56 ~ 75 Hz		
Display Color			
16,194,277			
Resolution			
Optimum resolution	1280 x 1024 @ 60 Hz		
Maximum resolution	1280 x 1024 @ 75 Hz		
Input Signal, Terminated			
RGB Analog 0.7 Vpp positive at 75 Ω Separate H/V sync, Composite, TTL level positive or negative			
Maximum Pixel Clock			
135 MHz			
Power Supply			
AC 100 to 240 VAC(+/- 10 %), 60/50 Hz ± 3 Hz			
Signal Cable			
15pin-to-15pin D-sub cable, detachable			
Power Consumption			
Less than 45 W			
Dimensions (WxDxH) / Weight			
384.6 X 66.7 X 338.0 mm / 15.1 x 2.6 x 13.3 inch (Without stand) 384.6 X 201.0 X 392.8 mm / 15.1 x 7.9 x 15.4 inch / 6.2 kg (With basic stand)			
VESA Mounting Interface			
75 mm x 75 mm (for use with Sp	pecialty(Arm) Mounting hardware.)		

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 1ppm (one millionth) 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.

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

Note: Design and specifications are subject to change without prior notice.

Index Safety Instruct	tions Introduction Se	etup Adjusting Your Mor	itor Troubleshooting S	pecifications Information	
*	English > Main > Specifications > 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				
Specifications	time. The monitor au	itomatically returns to norm	al operation when you press a en it is not needed, or when le	key on the keyboard. For	
General			with a VESA DPMS compliar n your computer to set up this		
 PowerSaver Preset Timing 	your computer. Use		n your computer to set up this		
Modes	State	Normal Operation	Power saving mode EPA	Power off	
	Power Indicator	Green	Green Blinking	Black	

Power ConsumptionLess than 45WLess than 3WLess than 1W
(110 Vac)



Specifications

- General
- PowerSaverPreset Timing
- Modes



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.

Preset Timing Modes

Disular Made	Horizontal Frequency (kHz)	Vertical Frequency	Pixel Clock	Sync Polarity (H/V)
Display Mode		(Hz)	(MHz)	
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	70.086	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
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	+/+
SUN, 1280 x 1024	81.129	76.106	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



* The address and phone number of the company can be changed without previous notice.

Troubleshooting | Specifications | Information

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ormation

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- Terms
- Natural Color
- For Better Display
- Image Retention
- Free
- Authority

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- Service Center
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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 1280 X 1024, this means the screen is composed of 1280 horizontal dots (horizontal resolution) and 1024 vertical lines (vertical resolution).



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

SAMSUNE

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

(in the drive where the CD is inserted is not D.1, enter the applicable dr

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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Natural Color

For Better Display **Image Retention**

- 1. Adjust computer resolution and screen injection rate (refresh rate) on 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.
 - o Resolution: 1280 x 1024
 - Vertical frequency (refresh rate): 60 Hz
- 2. TFT LCD panel manufactured by using advanced semiconductor technology with precision of 1ppm (one millionth) 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.
 - o For example, the number of TFT LCD sub 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.
- 6. Do not display a still image(such as on a video game or when hooking up a DVD to this LCD_TV) on the Color TFT-LCD (Thin Film Transister Liquid Crystal Display) panel for a long time as it can cause screen image retention. This image retention is also known as " screen burn". To avoid such image retention, reduce the degree of brightness and contrast of this screen when displaying a still image.

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For Better Display

Image Retention

PRODUCT INFORMATION (Image Retention Free)

LCD Monitors and TVs may have image retention when switching from one image to another especially after displaying a stationary image for a long time.

This guide is to demonstrate correct usage of LCD products in order to protect them from Image retention.

What is Image retention ?

During normal operation of a LCD panel, pixel image retention doesn't occur. However, if the same image is displayed for a long time, a slight difference in electric charge accumulates between the two electrodes which encase the liquid crystal. This may cause the liquid crystal to build up in a certain areas of the display. Thus, the previous image is retained when switching to a new video image. All display products, including LCD, are subject to image retention. This is not a product defect.

Please follow the suggestions below to protect your LCD from image retention

0 Power Off, Screen Saver, or Power Save Mode

- Ex) Turn the power off when using a stationary pattern. .
 - Turn the power off for 4 hours after 24 hours in use
 - Turn the power off for 2 hours after 12 hours in use
- Use a Screen saver if possible
- Screen saver in one color or a moving image is recommended. Set the Monitor to power off with the PC Display Properties Power Scheme.
- 0 Suggestions for specific applications Ex) Airports, Transit Stations, Stock Markets, Banks, and Controlling Systems We recommend that you follow set up of your display system program as below:
- Display Information together with Logo or Moving image cycle. 0 Ex) Cycle : Display Information for 1 hour followed by a Display Logo or moving image for 1 minute.
- 0 Change the Color Information periodically (Use 2 different colors). Ex) Rotate the Color Information with 2 colors every 30 minutes.



Avoid using a combination of characters and background color with large difference in luminance.

Avoid using Grey colors, which can cause Image retention easily.

- Avoid: Colors with big difference in luminance (Black & White, Grey)
- Ex)



· Recommended settings: Bright colors with little difference in luminance - Change the characters color and background color every 30 minutes

Ex)



- Every 30 minutes, change the characters with movement. Ex)



0 The best way to protect your monitor from Image retention is to set your PC or System to operate a Screen Saver program when you are not using it.

Image retention may not occur when a LCD panel is operated under normal conditions. Normal conditions are defined as continuously changing video patterns. When the LCD panel is operated for a long time with a fixed pattern (-over 12 hours-), there may be slight difference in voltage between electrodes that work the liquid crystal (LC) in a pixel. The voltage difference between electrodes increases with time, forcing the liquid crystal to lean. When this occurs, the previous image may be seen when the pattern is changed. To prevent this, the accumulated voltage difference must be decreased.



Our LCD Monitor satisfies ISO13406-2 Pixel fault Class II

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Class B

This device is a Class B digital apparatus. For Safety and EMC compliance guide, you may refer to "Regulatory" Guide.