



Install driver

Install programs





	depending on the mo specifications are sub	ance of the product may vary del, and the product ject to change without prior performance enhancement.	
	 Industion 	- Connections	Using the Software
Safety Precautions	Introduction	Connections	 Using the Software

Notation

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

Power

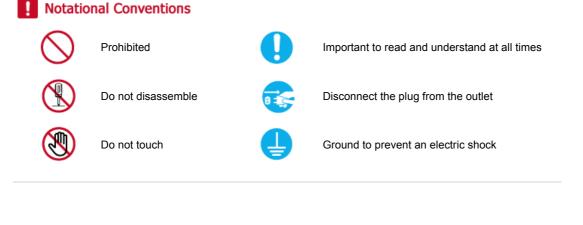
Installation

Cleaning and Using

Others

Notation

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



Power



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

Power

Installation

The images here are for reference only, and are not applicable in all cases (or countries).

Notation

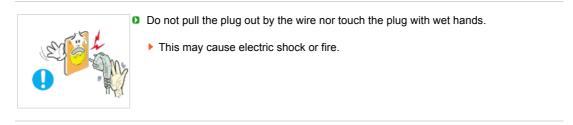
Shortcut to Anti-Afterimage Instructions 📀

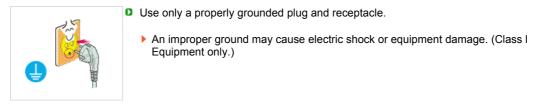
Cleaning and Using

Others

Do not use a damaged or loose plug.







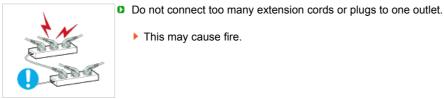


Insert the power plug firmly so that it does not come loose.

A bad connection may cause fire.



- Do not excessively bend the plug and wire nor place heavy objects upon them, which could cause damage.
 - This may cause electric shock or fire.

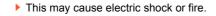




- Do not disconnect the power cord while using the monitor.
 - A surge may be caused by the separation and may damage the monitor.



- Do not use the power cord when the connector or plug is dusty.
 - If the connector or plug of the power cord is dusty, clean it with a dry cloth.
 - Using the power cord with a dusty plug or connector may cause electric shock or fire.
- D To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

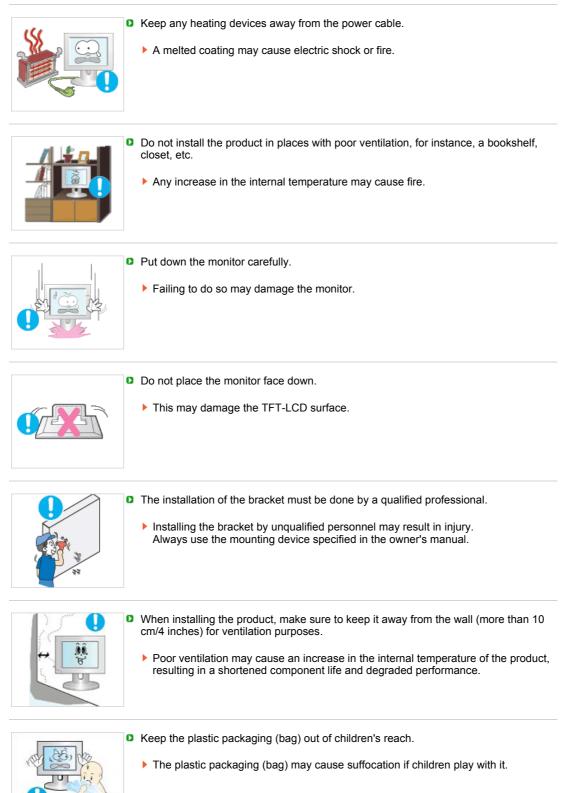




		Notation	Power	Installation	Cleaning and Using	Others
Installation						
	with heavy dust,	high or low te where it will b	emperature	s, high humid	installing your set in ity, and exposed to cl continuously such as	hemical
	Failure to do so r	may cause se	erious dama	age to your m	onitor.	
	Place your monitFailure to do s			-	a minimum of dust. ide the monitor.	
	Do not drop the r This may caus		-	t or the perso	on carrying it.	
	protrude from the	e showcase o	r shelf.		the end of the base of the base of the base of the person ca	
	Do not place thePlace the prod cause harm to	luct on an eve	en and stat	ole surface, as	s the product may fall	and
	Do not place the ▶ Take care, as			nildren may tr	ip over it.	

- **D** TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.
 - Otherwise, this may cause fire.





Cleaning and Using



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 onto the monitor.
 - > This may cause damage, electric shock or fire.



D Use the recommended detergent with a smooth cloth.



- If the connector between the plug and the pin is dusty or dirty, clean it properly using a dry cloth.
 - > A dirty connector may cause 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 SAMSUNG customer care 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 a malfunction or fire.

Notation Power Installation

Cleaning and Using Others

Others

Do not remove the cover (or back).



This may cause electric shock or fire. Refer to a qualified servicing company.



If your monitor does not operate normally - in particular, if there is any unusual sound or smell coming from the monitor - contact an authorized dealer or the Service Center.

> This may cause electric shock or fire.



Keep the product away from places exposed to oil, smoke or moisture; do not install inside a vehicle.

This may cause a malfunction, electric shock or fire. In particular, avoid operating the monitor near water or outdoors where the monitor could be exposed to snow or rain.

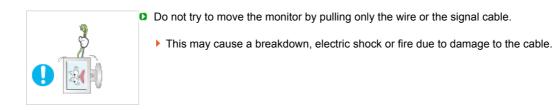


If the monitor is dropped or the casing is damaged, turn the monitor off and unplug the power cord. Then contact the <u>Service Center</u>.

> The monitor may malfunction, causing electric shock or fire.



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





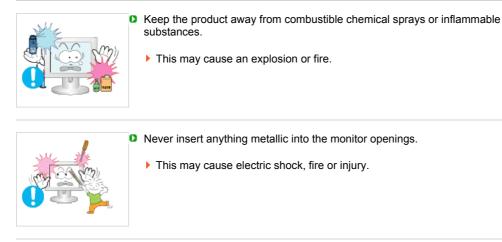
- Do not move the monitor right or left by pulling only the wire or the signal cable.
 - > This may cause a breakdown, electric shock or fire due to damage to the cable.



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





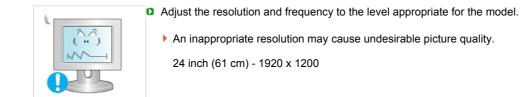
Do not insert metal objects such as chopsticks, wire and tools or inflammable objects such as paper or matches into the vent, headphone port or AV ports or etc.

This may cause electric shock or fire. If an alien substances or water enters the product, turn the product off, unplug the power connector from the wall outlet and contact the Service Center.



O

- When viewing a fixed screen for an extended period of time, residual image or blurriness may appear.
- Change the mode to energy saving mode or set a screensaver to a changing picture when away from the monitor for an extended period of time.





Viewing the monitor continuously at a too close angle may result in damage to your eyesight.



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 the person carrying it. Using the product in a location prone to vibrations may shorten the lifetime of the product or may cause the product to catch fire.



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

Failure to disconnect cables may damage it and cause fire or electric shock.



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

A falling product may cause injury to the person or even fatality.



When not using the product for an extended period of time, keep the product unplugged.

Otherwise, this may cause heat emission from the accumulated dirt or degraded insulation, causing electric shock or fire.



- Do not place your children's favorite toys or any other objects of interest on the product.
- Children may try to climb on the product to retrieve an object. The product could fall, causing injury or even fatality.



- When lifting up or moving the monitor, do not lift the monitor upside down while holding only the stand.
- This may cause your monitor to fall, and become damaged or cause personal injury.

D Good Postures When Using the Monitor



▶ Try to maintain a good posture when using the monitor.

- Keep your back straight.
- Keep a distance of about 45 ~ 50 cm between your eyes and the monitor screen. Look at the screen from slightly above it, and have the monitor directly in front of you.
- Tilt the monitor upwards by 10 ~20 degrees. Adjust the monitor height so that the top of the monitor is slightly below eye level.
- Adjust the monitor angle so that there is no reflected light on the screen.Try to maintain your arms perpendicular to your armpits.
- Keep your arms level with the back of your hands.
- Keep the angle of the elbow perpendicular.
- · Keep the angle of the knees at more than 90 degree. Do not let your

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.

LCD Monitors and TVs may have an image retention when switching from one image to another especially after displaying a stationary image for a long time. This guide is to demonstrate a correct usage of LCD products in order to protect them from Image retention.

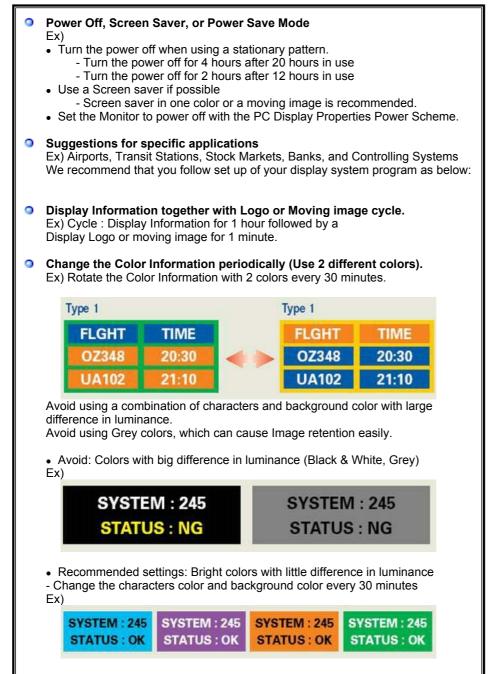
Warranty

Warranty does not cover any damage caused by image retention. Burn-in is not covered by the warranty.

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



- Every 30 minutes, change the characters with movement.

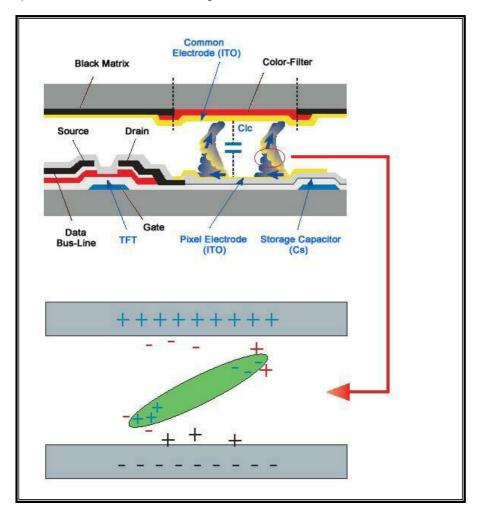


The best way to protect your monitor from Image retention is to set your PC or System to operate a Screen Saver program when you are not using it.

Image retention may not occur when a LCD panel is operated under normal conditions.

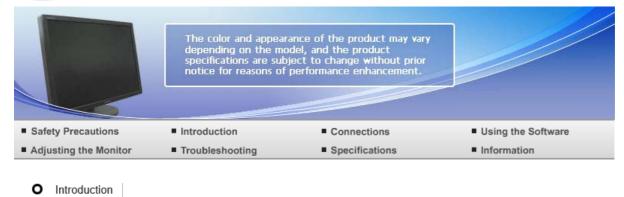
Normal conditions are defined as continuously changing video patterns. When the LCD panel is operated for a long time with a fixed pattern (-over 12 hours-), there may be slight difference in voltage between electrodes that work the liquid crystal (LC) in a pixel. The voltage difference between electrodes 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





Package Contents Your Monitor

Package Contents

Please make sure the following items are included with your monitor. If any items are missing, contact your dealer. Contact a local dealer to buy optional items.

D Unpacking

Without Stand



Monitor

With Stand



Monitor & Sliding Stand

Manual







Warranty Card

User's Guide, Monitor Driver,

Quick Setup Guide

(Not available in all locations)

Natural Color software, AutoRotation software

Cable



Power Cord

D-sub Cable



USB Cable

Others



Cleaning Cloth

 $\times Will be applied to black and high gloss models only.$

Sold separately





S-Video Cable

HDMI Cable



DVI-D Cable

Component Cable





Speaker



RCA to stereo cable

Package Contents Your Monitor

Vour Monitor

Front



0	MPA button	Push the MPA button to turn MPA On/Off. This function is used to play movies. You can enjoy better screen quality.
0	MENU button [IIII]	Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.
3,4	Adjust buttons [▼/▲]	These buttons allow you to adjust items in the menu.
0	PC/DVI(PC) : MagicBright™ button [ᡘᡌ]	MagicBright [™] is a new feature providing optimum viewing environment depending on the contents of the image you are watching. Currently seven different modes are available: Custom, Text, Internet, Game, Sports, Movie and Dynamic CR. Each mode has its own pre-configured brightness value. You can easily select one of seven settings by simply pressing MagicBright [™] control button. 1) Custom
		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 the brightness and contrast by using the OSD menu.
		 Text For documentations or works involving heavy text.
		 Internet For working with a mixture of images such as texts and graphics.
		4) Game For watching motion pictures such as a game.
		5) Sports For watching motion pictures such as a Sports.
		6) Movie
		For watching motion pictures such as a DVD or Video CD.
		 Dynamic CR Dynamic CR is to automatically detect distribution of inputted visual signal and adjust to create optimum contrast.
		>> Click here to see an animation clip
	AV /S- Video/Component /HDMI : Mode button	 The Monitor has four automatic picture settings ("Dynamic", "Standard", "Movie" and "Custom") that are preset at the factory. You can activate either Dynamic, Standard, Movie, or Custom. You can select "Custom" which automatically recalls your personalized picture settings. 1) Dynamic Select this mode to view a sharper image than in "Standard" mode.
		 Standard Select this mode when the surroundings are bright. This also provides a sharp image.

		 3) Movie Select this mode when the surroundings are dark. This will save power and reduce eye fatigue. 4) Custom
		Select this mode when you want to adjust the image according to your preferences.
		>> Click here to see an animation clip
4	Brightness button [Q]	When OSD is not on the screen, push the button to adjust brightness. >> Click here to see an animation clip
6	Enter button [_{source}] / SOURCE button	Activates a highlighted menu item. / Push the ' , then selects the video signal while the OSD is off. (When the source button is pressed to change the input mode, a message appears in the upper left of the screen displaying the current mode PC, DVI, AV, S-Video, Component and HDMI input signal.) Changing the source is only allowed for external devices that are connected to the monitor at the time. >> Click here to see an animation clip
6	AUTO button	(Available in PC mode only) When the 'AUTO' button is pressed, the Auto Adjustment screen appears as shown in the animated screen on the center. Auto adjustment allows the monitor to self-adjust to the incoming video signal. The values of fine, coarse and position are adjusted automatically. >> Click here to see an animation clip
0	PIP button	(Available in PC/DVI Mode Only) In PC or DVI Mode, turns on Video screens in PIP Mode. You can view a picture from AV, S-Video, or Component through the PIP screen in PC and DVI(PC) mode.
8	Power button [b]	Turns the monitor On/Off.
	Power indicator	This will enable you to see the overall power status of the system. For more information, see the PowerSaver section.
	× See PowerSaver des	cribed in the manual for further information regarding power saving

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

Rear



 $\,\times\,$ The configuration at the back of the monitor may vary from product to product.



HDMI IN / DVI IN(HDCP) / RGB IN



A POWER S/W

- : Switch the monitor on and off.
- B POWER

: Connect the power cord for your monitor to the POWER IN port on the back of the monitor.

🚯 HDMI IN

: Connect the HDMI IN terminal at the back of your monitor to the HDMI terminal of your digital output device using a HDMI cable.

B DVI IN(HDCP)

: Connect the DVI cable to the DVI IN(HDCP) port

- on the back of your monitor. GRGB IN
- : Connect the RGB IN terminal at the back of your monitor to your computer.

3 VIDEO IN / S-VIDEO IN / AUDIO POWER / AUDIO OUT

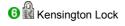


4 🚭 USB connection terminal



COMPONENT IN





🔕 VIDEO IN

- : External device (video) input terminal S-VIDEO IN
- : External device (S-video) input terminal
- AUDIO POWER (DC 12V----)
 - : Connect the speaker power line connected to the speaker to the AUDIO POWER terminal of the monitor.
- AUDIO OUT
 - : When connecting an external device to your monitor using an HDMI cable, you must connect the AUDIO OUT terminal of your monitor and the SPK terminal (yellowish green sound input terminal) of the dedicated speaker using a stereo cable to hear audio from the HDMI screen.
- (USB upstream port)
- : Connect the +++ UP port of the monitor and the USB port of the computer with the USB cable.
- BOWN (USB downstream port) : Connect the COWN port of the USB monitor and a USB device with the USB cable.
- To use DOWN (Downstream Port), you have to connect the UP (Upstream Cable) to the PC.
 Make sure to use the USB cable supplied with this monitor to connect the monitor's UP port and your computer's USB port.
- Connect the VIDEO OUT port of the DVD / DTV Set-Top Box to the Y, PB,PR input ports using a component video cable (Y, PB,PR).

• The Kensington lock is a device used to physically fix the



Stand Stopper



system when using it in a public place. (The locking device has to be purchased separately.) × For using a locking device, contact where you purchase it.

• Remove the fixing pin on the stand to lift the monitor up and down.

 \times See Connecting Cables for further information regarding cable connections.

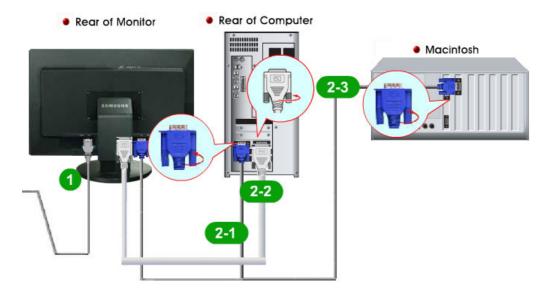


	depending on the mo specifications are sub	ance of the product may vary del, and the product ject to change without prior performance enhancement.	
	Introduction	Connections	Using the Software
 Safety Precautions 			

Connections ο

> Connecting Cables Using the Stand

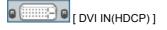
Connecting Cables



- Connect the power cord for your monitor to the POWER IN port on the back of the monitor. 0 Plug the power cord for the monitor into a nearby outlet.
- 2 Use a connection appropriate for your computer.
 - 21 Using the RGB (Analog) connector on the video card.
 - Connect the signal cable to the 15-pin, RGB IN port on the back of your monitor.



Using the DVI (Digital) connector on the video card.
 Connect the DVI cable to the DVI IN(HDCP) port on the back of your monitor.



2-3 Connected to a Macintosh. Connect the monitor to the Macintosh computer using the RGB IN connection cable.

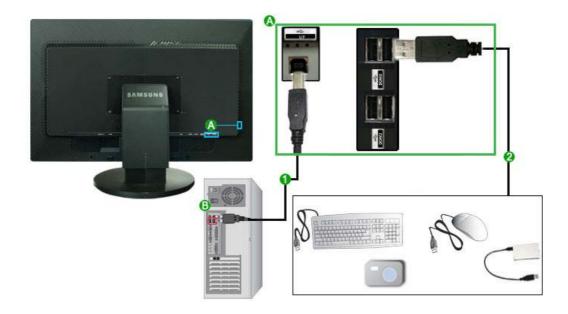
× If the monitor and the computer are connected, you can turn them on and use them.

Connecting USB

 $^{ imes}$ You can use a USB device such as a mouse, keyboard, Memory Stick, or external hard disk drive by connecting them to the 🖛 DOWN port of the monitor without connecting them to the PC.

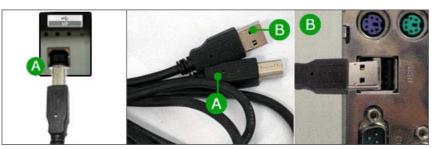
The 🚓 USB port of the monitor supports High-Speed Certified USB 2.0.

	High speed	Full speed	Low speed
Data Rate	480 Mbps	12 Mbps	1.5 Mbps
Power Consumption	2.5 W (Max., each port)	2.5 W (Max., each port)	2.5 W (Max., each port)



× To use 🗲 DOWN port, you have to connect the UP (Upstream Cable) to the PC.

Make sure to use the USB cable supplied with this monitor to connect the monitor's UP port and your computer's USB port.



Connect the < DOWN port of the USB monitor and a USB device with the USB cable.

The use procedures are as the same as those for using an external device connecting to the PC.

- You can connect and use a keyboard and mouse.
- You can play a file from a media device.

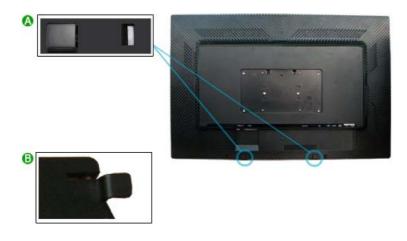
0

0

6

- (Examples of media devices: MP3, digital camera, etc.)
- You can run, move, copy or delete the files on the storage device. (Examples of storage devices: external memory, memory card, memory reader, HDD-type MP3 player, etc.)
- You can use other USB devices that can be connected to a computer.
- When connecting a device to the DOWN port of the monitor, connect the device using a cable appropriate to the device.
 (For the purchase of the cable and external devices, ask the service center of the corresponding product.)
- * The company is not liable for problems or damages to an external device caused by using an unauthorized cable for the connection.
- Some products do not follow the USB standard, and it may cause a malfunction of the device.
- × If the device malfunctions even if it is connected to the computer, contact the service center of the device/computer.

Connecting a Speaker



 \times When connecting a speaker, be careful that the grooves of the monitor and the speaker . (()) are aligned with each other.

Adjust the aligned positions until you hear a 'click'. If a speaker is connected correctly, you can hear a 'click'. If a speaker is connected without you hearing a 'click', the holding part may become damaged.

 \times If you need to separate, please pull (\bigcirc) a little and push to the right.



MIC / SPK

- Connect the red cable of the cables provided when the speaker was purchased to the audio output terminal at the back of the computer.
- Connect the other end of the cable to the red terminal at the back of the speaker.
- Connect the light green cable of the cables provided when purchasing the speaker to the AUDIO OUT.

Connect the other end of the cable to the light green terminal at the back of the speaker.

2 🛛 🖓 / 🎍

Oconnect a headphone to the black terminal at the right of the speaker.

D Connect a microphone to the red terminal at the right of the speaker.

- By turning part (+, -) in the direction shown in the figure below, the speaker turns on and the volume increases.
- Connect the power line connected to the speaker to the black terminal of the monitor. This speaker is not connected to an external power source. It is connected to a monitor for the required power.

Connecting to Other devices

- * This monitor allows the user to connect it to such input devices as a DVD player, a VCR or a camcorder without disconnecting the PC.
- * The configuration at the back of the monitor may vary from product to product.

Connecting AV Devices

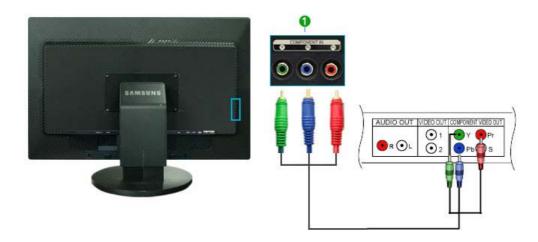
* The monitor has AV connection terminals to connect AV input devices like DVD, VCR or Camcorder. You may enjoy AV signals as long as the monitor is turned on.



- Input devices such as DVD, VCR or Camcorder are connected to the VIDEO IN or S-VIDEO IN terminal of the monitor using the RCA or S-Video cable.
 Then, start the DVD, VCR or Camcorder with a DVD disc or tape inserted.
 Select AV or S-Video using the 'source' button.
- 2 To hear sound, refer to the Connection section of your conncted external device manual.

Connecting DVD/DTV Set Top Box

Connect to the DVD/DTVSet Top Box input if the device has a DVD/DTV connector. You can watch Component simply by hooking up the Component with the monitor as long as the power is on.



- 0 Connect the VIDEO OUT port of the DVD / DTV Set-Top Box to the PR, PB, Y input ports using a component video cable (PR, PB, Y). Then, start the DVD with a DVD disc inserted.
 - Select Component using the 'SOURCE' button.
- 0 To hear sound, refer to the Connection section of your conncted external device manual .

Connecting HDMI

× You cannot connect a PC to the HDMI IN terminal.



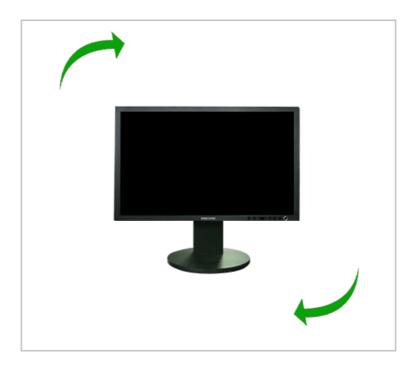
0 Input devices such as digital DVD are connected to the HDMI IN terminal of the monitor using the HDMI cable. When all the connections are completed, connect the power cords for the monitor and DVD (or the device connected to the digital output terminal). Select HDMI using the 'source' button.

0 When connecting an external device to your monitor using an HDMI cable, you must connect the AUDIO OUT terminal of your monitor and the SPK terminal (yellowish green - sound input terminal) of the dedicated speaker using a stereo cable to hear audio from the HDMI screen.

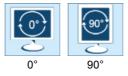
> Connecting Cables Using the Stand

Using the Stand

Rotating the monitor



(When pivoting the monitor, rotation angle is displayed on screen of the monitor.)



 \times When rotating the screen, make sure to tilt the monitor 45 to 65 degrees so that it does not touch the floor. When tilting the screen backwards, do not tilt it more than 65 degrees.

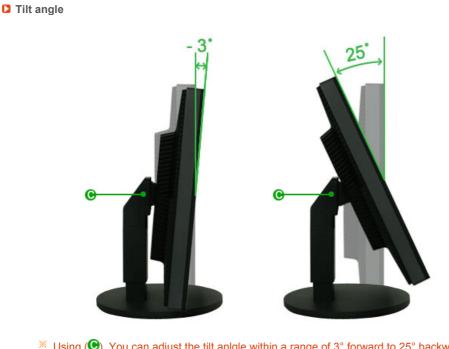
Sliding stand



Stand Stopper



Using (i), You can swivel the monitor left and right at an angle of 90° to set the monitor lengthwise. The rubber under the stand is to avoid the monitor slide.
 When you try to rotate the monitor in the state of the power cord or cable connecting to the monitor, the power cord of cable can be destroyed.



Using (), You can adjust the tilt anlgle within a range of 3° forward to 25° backward for the most comfortable viewing angle.

Attaching a Base

× This monitor accepts a 200 mm x 100 mm VESA-compliant Mounting interface pad.



🚯 Monitor

B Mounting interface pad (Sold separately)

1. Turn off your monitor and unplug its power cord.

*

- 2. Lay the LCD monitor face-down on a flat surface with a cushion beneath it to protect the screen.
- 3. Remove four screws and then remove the stand from the LCD monitor.
- 4. 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.
 - Do not use screws longer than the standard dimension, as they may damage the inside of the Monitor.
 - For wall mounts that do not comply with VESA standard screw specifications, the length of the screws may differ depending on their specifications.
 - Do not use screws that do not comply with the VESA standard screw specifications.
 Do not fasten the screws too tightly, as this may damage the product or
 - Do not fasten the screws too tightly, as this may damage the product or cause the product to fall, leading to personal injury.
 - Samsung is not liable for these kinds of accidents.
 - Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
 - To mount the monitor on a wall, you should purchase the wall mounting kit that allows you to mount the monitor at least 10cm away from the wall surface.
 - Contact the nearest Samsung Service Center for more information. Samsung Electronics will not be responsible for damages caused by using a base other than those specified.
 - Please use Wall Mount according to the International standards.



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Safety Precautions	Introduction	Connections	Using the Software
Adjusting the Monitor	Troubleshooting	Specifications	Information

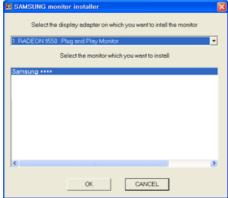
Monitor Driver Natural Color AutoRotation

Monitor Driver

When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions appropriate for the operating system you have.
Prepare a blank disk and download the driver program file at the Internet web site shown below.
Internet web site :http://www.samsung.com/ (Worldwide)
http://www.samsung.com/monitor (U.S.A)
http://www.samsungmonitor.com.cn/ (China)

Installing the Monitor Driver (Automatic)

- Insert the CD into the CD-ROM drive.
- Olick "Windows".
- 8 Choose your monitor model in the model list, then click the "OK" button.



If you can see following message window, then click the "Continue Anyway" button. Then click the "OK" button (Microsoft[®] Windows[®] XP/2000 Operating System).



* This monitor driver is under certifying MS logo, and this installation doesn't damage your system. The certified driver will be posted on Samsung Monitor homepage

http://www.samsung.com/

- 6 Monitor driver installation is completed.
- Installing the Monitor Driver (Manual)

Windows Vista | Windows XP | Windows 2000 | Windows ME | Windows NT | Linux

- Microsoft[®] Windows[®] Vista Operating System [▲]
 - 1 Insert your Manual CD into your CD-ROM drive.
 - Olick (Start) and "Control Panel". Then, double-click on "Appearance and Personalization".



8 Click "Personalization" and then "Display Settings".







Olick "Properties" in the "Monitor" tab. If the "Properties" button is deactivated, it means the configuration for your monitor is completed. The monitor can be used as is. If the message "Windows needs..." is displayed, as shown in the figure below, click "Continue".

Manitar Traubleshoot Color Management	Windows needs your permission to contionue	
Cenery: Pro Montor Properties Provide Settings Spream refresh rate: (0) Hents (0) Hents (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	If you started this action, continue. Device Properties Microsoft Windows	
☑ jde 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 for diamaged hardware.	Details Continue Cancel User Account Control helps stop unauthorized changes to your computer	
OK Cancel Apply		

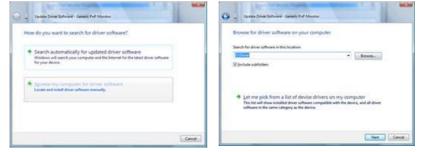
* This monitor driver is under certifying MS logo, and this installation doesn't damage your system. The certified driver will be posted on Samsung Monitor homepage

http://www.samsung.com/

6 Click "Update Driver..." in the "Driver" tab.

General Driver Details	General Driver Details
Genetic ProP Monitor	Generic PriP Manitor
Device type: Monitors Manufacture: (Standard monitor types) Location: on IVVDIA GeForce 6600 LE (Monisoft Corpo Device status	Driver Provider Monsont Drive Date: 6-21/2006 Driver Vessel: 6.6 600.15385 Digital Signer: microsoft windows
This device is working property.	Driver Details To view details about the driver files.
	Bull Back Driver Budle Center Deable Deable Deables the selected device
	Universal To universal the driver (Advanced)
OK Carcel	OK Cancel

Ocheck the "Browse my computer for driver software" checkbox and click "Let me pick from a list of device drivers on my computer".



Olick "Have Disk..." and select the folder (for example, D:\Drive) where the driver setup file is located, and click "OK".

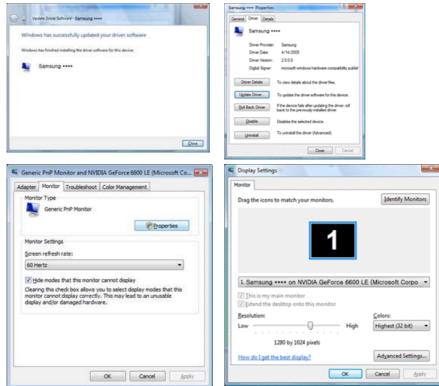
Select the device driver you want to install for this hardware. Select the nandacure and node if you harbare device and then sick flast. Fyou have a data that contains the driver you want to install, dick Have Data	Cano
2 Dec grapatitis hardwan Madi 19 Carwa fur Mantar	Copy manufacturer's files from:
127 This driver is diptally signed. Tell much uther standaux modular.	

9

Select the model that matches your monitor from the list of monitor models on the screen, and click "Next".



0 Click "Close" \rightarrow "Close" \rightarrow "OK" \rightarrow "OK" on the following screens displayed in sequence.



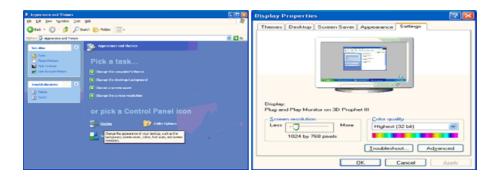
- Microsoft[®] Windows[®] XP Operating System [▲]
 - Insert the CD into the CD-ROM drive.

8

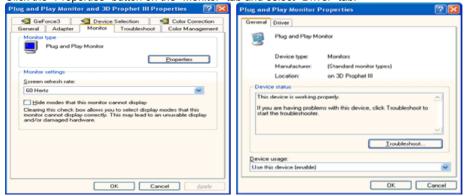
 ${\it @}$ Click "Start" \rightarrow "Control Panel" then click the "Appearance and Themes" icon.



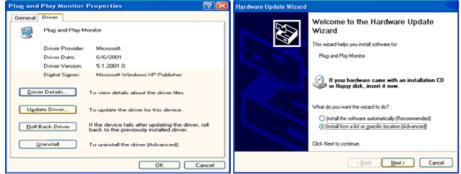
Click "Display" icon and choose the "Settings" tab then click "Advanced."



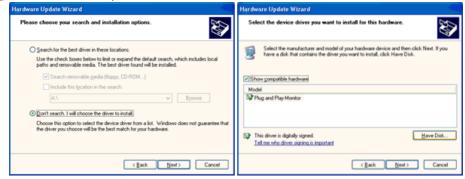
Olick the "Properties" button on the "Monitor" tab and select "Driver" tab.



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



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



0

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



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

Hardwa	re Installation
1	The software you are installing for this hardware: Samsung **** has not passed Windows Logo testing to verify its compatibility with Windows XP; (Let me who 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 certifying MS logo, and this installation doesn't damage your system.

The certified driver will be posted on Samsung Monitor homepage

http://www.samsung.com/

Olick the "Close" button then click the "OK" button continually.

	Completing the Hardware Update Wizard The wizard has finished installing the software for: Samsung ****	General Driver Samsung **** Driver Provider: Driver Date:	Samsung 9/11/2001
	3	Driver Version: Digital Signer:	1.0.0.0 Not digitally signed To view details about the driver files.
	Click Frish to close the wizard.	Update Driver Boll Back Driver	To update the driver for this device. If the device fails after updating the driver, roll back to the previously installed driver. To uninstall the driver (Advanced).
	< gack Finish Cancel		Close Cancel
GeForce3 General Adapter Monitor type Physiand Pla Monitor settinge Screen refresh rate: 60 Hentz Hide modes that t Chaving this check to	or and 3D Prophot III Properties Device Selection Color Correction Monitor Troubleshoot Color Management w Monitor Properties Namorato carenot display nor advox post to select display modes that this processity. This may lead to musuable display		
Screen refresh rate: 60 Hertz Hide modes that t Clearing this check b	ox allows you to select display modes that this w correctly. This may lead to an unusable display		

0 Monitor driver installation is completed.

- Microsoft[®] Windows[®] 2000 Operating System [▲]
 - 🏁 When you can see "Digital Signature Not Found" on your monitor, follow these steps.
 - Ochoose the "OK" button on the "Insert disk" window.
 - Olick the "Browse" button on the "File Needed" window.
 - 8 Choose A:(D:\Driver) then click the "Open" button and then click the "OK" button.

How to install

- Olick "Start," "Setting," and then "Control Panel."
- Ø Double click the "Display" icon.
- 8 Select the "Settings" tab and click the "Advanced Properties" button.
- Ohoose "Monitor."
 - Case1 : If the "Properties" button is inactive, it means your monitor is properly configured. Please stop installation
 - Case2 : If the "Properties" button is active, click the "Properties" button then follow next steps continually.
- 6 Click "Driver" and then click "Update Driver." then click 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".
- Olick the "Browse" button then choose A:(D:\Driver).
- 8 Click the "Open" button, then click the "OK" button.
- Ochoose your monitor model and click the "Next" button then click "Next" button.
- Olick the "Finish" button then the "Close" button.

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

- Microsoft[®] Windows[®] Millennium Operating System
 - 1 Click "Start," "Setting," and then "Control Panel."
 - Ø Double click the "Display" icon.
 - 8 Select the "Settings" tab and click the "Advanced Properties" button.
 - 4 Select the "Monitor" tab.
 - 6 Click the "Change" button in the "Monitor Type" area.
 - 6 Choose "Specify the location of the driver."
 - Ochoose "Display a list of all the driver in a specific location." then click the "Next" button.
 - 8 Click the "Have Disk" button.
 - Specify A:\(D:\driver) then click the "OK" button.
 - O Select "Show all devices" and choose the monitor that corresponds to the one you connected to your computer and click "OK".
 - Oontinue choosing "Close" button and "OK" button until you close the Display Properties dialogue box.
- Microsoft[®] Windows[®] NT Operating System
 - Olick "Start," "Settings," "Control Panel," and then double-click "Display" icon.
 - In the Display Registration Information window, click the Settings tab and then click "All Display Modes".
 - 8 Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then click "OK".
 - O Click the "Apply" button if you see the screen working normally after clicking "Test". If the screen is not normal, change to a different mode (lower mode of resolution, colors, or frequency).

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

Linux Operating System A

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

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

Natural Color

Natural Color



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 is only available for Samsung monitors and ensures that the color of the images on the monitor are the same as the printed or scanned images.

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

Installing the Natural Color Software

Insert the CD included with the Samsung monitor into the CD-ROM Drive. The initial Natural Color screen will appear. Click on Natural Color in the startup window 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 Windows **[Start]** button, select **[Run...]**. Enter D:\cclor\NCProSetup.exe and then press the <Enter> key.

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

Uninstalling the Natural Color Software Program

Select "Settings" / "Control Panel" from the "Start" menu and then double-click "Add/Delete a program" Select Natural Color from the list and then click the "Add/Delete" button.

Monitor Driver Natural Color AutoRotation

AutoRotation

Installation

- 1. Insert the installation CD into the CD-ROM drive.
- 2. Click the AutoRotation installation file.
- 3. Select installation Language, Click "Next".
- 4. When the Installation Shield Wizard window appears, click "Next."
- 5. Select "I agree to the terms of the license agreement" to accept the terms of use.
- 6. Choose a folder to install the AutoRotation program.
- Click "Install."
- 8. The "Installation Status" window appears.

- 9. Click "Finish."
- 10. When the installation is complete, the MagicRotation, MagicTune™ executable icon appears on your desktop.

Double-click the icon to start the program.

	MagicTune™ execution icon may not appear depending on specification of computer system or monitor. If that happens, press F5 Key.				
					Lecture"
🤨 Installation Problems (MagicTune ™)					
The installation of MagicTune™ can be affected by such factors as the video card, motherboard and the network environment.					
					LigicTyne"
9 System Requirements					
os					
 Window 	vs 2000 vs XP Hom vs XP Profe vs Vista™				
		t is recommended using l or later.	MagicTune™ in Winc	lows® 200	0
Hardware					

- 32MB Memory above 60MB Hard disk space above

* For more information, visit the MagicTune[™] website.

Installation Problems (MagicRotation)

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

Limitation

- 1. The "Display Driver" should be properly loaded for the MagicRotation to work properly. The installed "Display Driver" should be the latest driver supplied by the vendor.
- 2. If some applications like Windows® Media Player, Real Player, etc. are not displaying movie files properly in 90, 180 and 270 orientations then do the following :
 - Close the application.
 - Select the Orientation (90, 180, 270) you want to view the application.
 - Relaunch the application.

In most cases this should fix the problem.

- User Applications using OpenGL and DirectDraw (3D drawing) will not function as per the orientation mode selected (90, 180, 270).
 e.g. 3D games
- 4. DOS based applications in Full Screen Mode will not function as per the orientation mode selected (90, 180, 270).
- 5. Dual is not supported in Windows® 98, ME, NT 4.0.
- 6. MagicRotation does not provide support for 24 bits per pixel (Bit depth/Color Quality).

7. If you are changing your Graphic Card it is recommended that you uninstall the MagicRotation Software before doing so.

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System Requirements

os

- Windows 2000
- Windows XP Home Edition
 Windows XP Professional
- Windows Vista™

Hardware

- 128MB Memory above(recommended)
- 60MB Free Hard disk space above

Service Packs

- It is recommended that your System has the latest Service Pack installed.
- For Windows® NT 4.0, it is recommended to install Internet Explorer 5.0 and above with Active Desktop component.
- * For more information, visit the MagicRotation website.
- * Windows® is registered trademark of Microsoft Corporation, Inc.

::::: Uninstall

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

Perform the following steps remove AutoRotation.

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

Visit the AutoRotation website for technical support for AutoRotation, FAQs (questions and answers) and software upgrades.



	depending on the mo specifications are sub	ance of the product may vary odel, and the product ject to change without prior performance enhancement.	
	Construction of the second		
Safety Precautions	Introduction	Connections	Using the Software

O Adjusting the Monitor

Control Buttons Direct Functions OSD Function

Control Buttons



MPA	Push the MPA button to turn MPA On/Off.
	Use this button to open the on-screen menu and exit from the menu screen or close screen adjustment menu.
	PC/DVI(PC) : MagicBright [™] MagicBright [™] is a new feature providing the optimum viewing environment depending on the contents of the image you are watching. Then press the button again to circle through available preconfigured modes. (Custom → Text → Internet → Game → Sports → Movie → Dynamic CR)
4 12	AV/S-Video/Component/HDMI : Mode The Monitor has four automatic picture settings that are preset at the factory. Then press the button again to circle through available preconfigured modes. (Dynamic \rightarrow Standard \rightarrow Movie \rightarrow Custom)
•	This button allows you to adjust items in the menu.

This button allows you to adjust items in the menu.

A	This button allows you to adjust items in the menu.
o	When OSD is not on the screen, push the button to adjust brightness
CE SOURCE	Press this button to activate a highlighted menu item. Selects the input signal while the OSD is off.
AUTO	Press to self-adjust to the incoming Analog signal. The values of fine,coarse and position are adjusted automatically.
PIP	Push the PIP button to turn PIP On/Off.

Control Buttons Direct Functions OSD Function

Direct Functions



Menu	Description
	When the 'AUTO' button is pressed, the Auto Adjustment screen appears as shown in the animated screen on the center. Auto adjustment allows the monitor to self-adjust to the incoming PC signal. The values of fine, coarse and position are adjusted automatically. (Available in PC mode only) To make the automatic adjustment function sharper, execute the 'AUTO' function
AUTO	 while the AUTO PATTERN is on. If auto adjustment does not work properly, press 'AUTO' button again to adjust picture with more accuracy.
	If you change resolution in the control panel, auto function will be executed automatically.

When pressing the AUTO or PIP button after locking the OSD





When pressing the MENU button after locking the OSD





Menu

Description

This is the function that locks the OSD in order to keep the current states of settings or prevent others from adjusting the current settings.

Lock : Hold down the menu button for more than five (5) seconds to activate the OSD adjustment lock function.

Locked

Unlock : Hold down the menu button for more than five (5) seconds to deactivate the OSD adjustment lock function.

* Though the OSD adjustment lock function is activated, you can still adjust the brightness and contrast, and adjust MagicBright () using the Direct button.





Menu	Description	Play/Stop
MagicBright™ /Mode	PC/DVI(PC) : MagicBright [™] MagicBright [™] is a new feature providing the optimum viewing environment depending on the contents of the image you are watching. Then press the button again to circle through available preconfigured modes. (Custom → Text → Internet → Game → Sports → Movie → Dynamic CR)	MagicBright™
	AV/S-Video/Component/HDMI : Mode The Monitor has four automatic picture settings that are preset at the factory. Then press the button again to circle through available preconfigured modes. (Dynamic \rightarrow Standard \rightarrow Movie \rightarrow Custom)	Mode

Brightness









Description

Brightness

When OSD is not on the screen, push the button to adjust brightness.

SOURCE



Menu

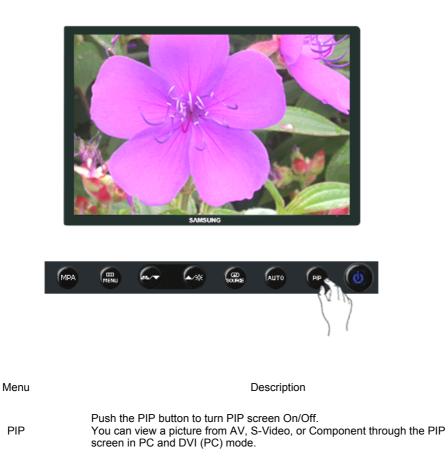
Description

Selects the input signal while the OSD is off.

SOURCE

(When the source button is pressed to change the input mode, a message appears in the upper left of the screen displaying the current mode -- PC, DVI, AV, S-Video and , Component and HDMI input signal.)
 * Changing the source is only allowed for external devices that are connected to the monitor at the time.

PIP (Available in PC/DVI(PC) Mode Only)





Push the MPA button to turn MPA On/Off. This function is used to play movies. You can enjoy better screen quality.

Menu

MPA

OSD Function

🖸 Input 🔺





* The default setting may different depending on the selected Input Mode (input signal source selected in External Input List) and the selected resolution.

Menu	Description	Play/Stop
	Use to select PC or other external input sources connected to the Monitor. Use to select the screen of your choice.	
Source List	1) PC 2) DVI 3) AV 4) S-Video 5) Component 6) HDMI MENU $\rightarrow e \rightarrow a, \forall \rightarrow e =$	00
Edit Name	Name the input device connected to the input jacks to make your input source selection easier. 1) PC 2) DVI 3) AV 4) S-Video 5) Component 6) HDMI MENU → ∉ → ▲, ▼ → ∉ → ▲, ▼ → ∉	00



X The default setting may different depending on the selected Input Mode (input signal source selected in External Input List) and the selected resolution.

Menu	Description	Play/Stop
	MagicBright [™] is a new feature providing optimum viewing environment depending on the contents of the image you are watching. Currently seven different modes are available : Custom, Text, Internet, Game, Sport, Movie and Dynamic CR. Each mode has its own pre-configured brightness value. You can easily select one of seven settings by simply pressing MagicBright [™] control button.	
	 Custom 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 the brightness and contrast by using the OSD menu. 	
	 2) Text For documentations or works involving heavy text. 	
MagicBright™	 3) Internet For working with a mixture of images such as texts and graphics. 	
	4) GameFor watching motion pictures such as a game.	
	5) Sports : For watching motion pictures such as a Sports.	
	 6) Movie For watching motion pictures such as a DVD or Video CD. 	
	 Dynamic CR Dynamic CR is to automatically detect distribution of inputted visual signal and adjust to create optimum contrast. 	
	$MENU \to \blacktriangle, \blacktriangledown \to \textcircled{el} \to \textcircled{el} \to \clubsuit, \blacktriangledown \to \textcircled{el}$	
	You can use the on-screen menus to change the contrast and brightness according to personal preference.	Contrast
Custom	1) Contrast	Brightness
	: Adjust the Contrast. 2) Brightness	
	: Adjust the Brightness.	

- Not available in MagicBright™ mode of Dynamic CR.

 $\mathsf{MENU} \to \blacktriangle, \blacktriangledown \to \textcircled{el} \to \bigstar, \blacktriangledown \to \textcircled{el} \to \bigstar, \blacktriangledown \to \textcircled{el} \to \bigstar, \blacktriangledown \to \textcircled{el}$

× If you adjust picture using Custom function, MagicBright™ will turn to Custom mode.

Image Lock	 Image Lock is used to fine-tune and get the best image by removing noise that creates unstable images with jitter and shimmer. If satisfactory results are not obtained using the Fine adjustment, use the Coarse adjustment and then use Fine again. Available in PC mode only 1) Coarse Adjust the screen so that all vertical lines (noise) on the screen are removed. Then, use the horizontal position adjustment menu to move the screen to the center, as the screen position may change after the noise has been removed. 2) Fine Removes noise such as horizontal stripes. If the noise persists even after Fine tuning, repeat it after adjusting the frequency (clock speed). 3) Sharpness Adjust the Sharpness. Not available in MagicBright™ mode of Dynamic CR. 4) H-Position Adjusts the screen location horizontally. 	Coarse Fine Sharpness H-Position V-Position
Auto Adjustment	 The values of Fine, Coarse, position are adjusted automatically. By changing the resolution in the control panel, auto function is performed. Available in PC mode only 	00
Size	You can switch the Size. 1) Wide 2) 4:3 MENU $\rightarrow \blacktriangle, \forall \rightarrow e \rightarrow \bigstar, \forall \rightarrow e \rightarrow \bigstar, \forall \rightarrow e \rightarrow \clubsuit$	
PIP Picture	 When the PIP is on, you can adjust the PIP screen setting. 1) Contrast Adjusts the Contrast of the PIP window on the screen. Brightness Adjusts the Brightness of the PIP window on the screen. 3) Sharpness Adjusts the Sharpness of the PIP window on the screen 4) Color Adjusts the Color of the PIP window on the screen 5) Tint Adds a natural tone to the PIP window. Available in AV/S-Video Mode Only 	Contrast Bightness Sharpness Color Color Tint



 $\times\,$ The default setting may different depending on the selected Input Mode (input signal source selected in External Input List) and the selected resolution.

Menu	Description	Play/Stop
Mode	The Monitor has four automatic picture settings ("Dynamic", "Standard", "Movie" and "Custom") that are preset at the factory. You can activate either Dynamic, Standard, Movie, or Custom. You can select "Custom" which automatically recalls your personalized picture settings.	
	 Dynamic Select this mode to view a sharper image than in "Standard" mode. Standard Standard Select this mode when the surroundings are bright. This also provides a sharp image. 	00
	 3) Movie Select this mode when the surroundings are dark. This will save power and reduce eye fatigue. 4) Custom Select this mode when you want to adjust the image according to your preferences 	
	$MENU \to \blacktriangle, \blacktriangledown \to \textcircled{el} \to \textcircled{el} \to \bigstar, \blacktriangledown \to \textcircled{el}$	
	You can use the on-screen menus to change the contrast and brightness according to personal preference.	Contrast
Custom	 Contrast Adjust the Contrast. Brightness Adjust the Brightness. Sharpness Adjust the Sharpness. Color Adjust the picture Color. Tint Adds a natural tone to the display. Available in AV/S-Video Mode Only 	Brightness Sharpness Color Tint
	$MENU \to \blacktriangle, \blacktriangledown \to \textcircled{e} \to \bigstar, \blacktriangledown \to \textcircled{e} \to \bigstar, \blacktriangledown \to \textcircled{e} \to \bigstar, \blacktriangledown \to \textcircled{e}$	

You can switch the Size.

Size	 AV / S-Video : Wide / 16:9 / Zoom1 / Zoom2 / 4:3 Component / HDMI : Wide / 16:9 / 4:3 	
	$MENU \to \blacktriangle, \blacktriangledown \to \textcircled{\textcircled{el}} \to \bigstar, \blacktriangledown \to \textcircled{el} \to \bigstar, \blacktriangledown \to \textcircled{el}$	
Film Mode	You can turn Film Mode Off / On. The Film Mode feature offers you a theater-quality viewing experience. In Component mode, film mode is only available for 480i and 576i input.	
	$MENU \to \blacktriangle, \blacktriangledown \to \textcircled{el} \to \bigstar, \blacktriangledown \to \textcircled{el} \to \bigstar, \blacktriangledown \to \textcircled{el}$	

D MagicColor Pro - Not available in MagicBright™ mode of Dynamic CR. ▲





 $\,\times\,$ The default setting may different depending on the selected Input Mode (input signal source selected in External Input List) and the selected resolution.

Menu	Description	Play/Stop
	Color Innovation function provides optimized color for personal favor to view effectively with WCG-CCFL which was applied to Samsung Electronics for the first time.	
	1) Brilliant	
	If you select "Brilliant", you can view a more clear and vibrant image	
	2) Mild	
	If you select "Mild", you can view a more natural and soft image.	
	3) Normal	
Color Innovation	If you select "Normal", you can watch the most general standard screen.	
miovation	4) Demo	•••
	If you select "Demo", you can compare the current screen with the screen when the Color Innovation function is enabled.	
	5) Custom	
	The pre-configured values may not be comfortable to your eyes depending on your taste. If this is the case, adjust the Picture and Color menu by using the OSD to fit your eyes.	
	$MENU \to \blacktriangle, \blacktriangledown \to \textcircled{el} \to \textcircled{el} \to \bigstar, \blacktriangledown \to \textcircled{el}$	

Adjusts the individual R, G, B color controls. PC/DVI(PC)

Color Tone	: Cool4 / Cool3 / Cool2 / Cool1 / Normal / Warm1 / Warm2 / Custom AV/S-Video/Component/HDMI : Cool2 / Cool1 / Normal / Warm1 / Warm2 MENU → ▲, ▼ → € → ▲, ▼ → € → ▲, ▼ → €	
Color Control	Adjusts the individual R, G, B color controls. 1) Red 2) Green 3) Blue - Available in PC/DVI(PC) Mode Only MENU → ▲, ▼ → ♥ → ▲, ▼ → ♥	00
Gamma	Gamma correction changes the luminance of the colors with intermediate luminance. Increased Mode number - Displays the full screen more naturally and softer and sharpens the dark scale. Decreased Mode number - Displays the full screen sharper and improves the bright scale. - Available in PC/DVI(PC) Mode Only MENU → ▲, ▼ → ● → ▲, ▼ → ● → ▲, ▼ → ●	0
6-Color	 6 types: Red, Green, Blue, Cyan, Magenta and Yellow - Can adjust each of them to the preference of the user. 1) Saturation Adjusts the color saturation. 2) Hue Adjusts the color tones. 3) Reset Returns to the original screen mode. 	Saturation Hue Reset

DIP (PC / DVI : PC)



 $^{\times}\,$ The default setting may different depending on the selected Input Mode (input signal source selected in External Input List) and the selected resolution.

Menu

Description

Play/Stop

Turn the PIP Screen on or off. You can view a picture from AV, S-Video, or Component through the PIP screen in PC and DVI mode.

PIP	1) Off 2) On	
Source	MENU $\rightarrow \bigstar, \forall \rightarrow \textcircled{e} \rightarrow \bigstar, \forall \rightarrow \textcircled{e}$ Select the input source for the PIP. You can view a picture from AV, S-Video, or Component through the PIP screen in PC and DVI(PC) mode. MENU $\rightarrow \bigstar, \forall \rightarrow \textcircled{e} \rightarrow \bigstar, \forall \rightarrow \textcircled{e} \rightarrow \bigstar, \forall \rightarrow \textcircled{e}$	00
Size	Change the Size of the PIP window. If you select, in Size, Position will not be activated. If the PIP Source is AV or S-Video:/ If the PIP Source is Component :/ // / If you change the PIP Source to AV or S-Video when the PIP Source is set to Component and or is selected, the PIP Size will change to automatically.	00
Position	MENU $\rightarrow \blacktriangle, \forall \rightarrow \textcircled{e} \rightarrow \bigstar, \forall \rightarrow \textcircled{e} \rightarrow \bigstar, \forall \rightarrow \textcircled{e}$ Change the Position of the PIP window. $\blacksquare I \blacksquare I \blacksquare I \blacksquare$ MENU $\rightarrow \bigstar, \forall \rightarrow \textcircled{e} \rightarrow \bigstar, \forall \rightarrow \textcircled{e} \rightarrow \bigstar, \forall \rightarrow \textcircled{e}$	00

🖸 Setup 📥





 $\times\,$ The default setting may different depending on the selected Input Mode (input signal source selected in External Input List) and the selected resolution.

Menu		Description			Play/Stop
Language	You can choose one of 11 la 1) English 2) Deutsch 6) Svenska 7) Português 11) 日本語	3) Français	, ,	5) Italiano 10) 中国语	

 $\mathsf{MENU} \to \underline{\blacktriangle}\,,\, \overline{\blacktriangledown} \to \underbrace{\textcircled{\bullet}} \to \underbrace{\textcircled{\bullet}} \to \underline{\clubsuit}\,,\, \overline{\blacktriangledown} \to \underbrace{\textcircled{\bullet}}$ Changes the opaqueness of the background of the OSD. 1) High 2) Medium Transparency 3) Low 4) Opaque $\mathsf{MENU} \to \underline{\blacktriangle}\,, \, \overline{\blacktriangledown} \to \underbrace{\longleftarrow} \to \underline{\bigstar}\,, \, \overline{\blacktriangledown} \to \underbrace{\longleftarrow} \to \underline{\bigstar}\,, \, \overline{\blacktriangledown} \to \underbrace{\longleftarrow}$ If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue screen" mode to "Off". Blue Screen - Operates only for AV, S-Video, Component and HDMI mode. $\mathsf{MENU} \to \blacktriangle, \blacktriangledown \to \clubsuit \to \bigstar, \blacktriangledown \to \clubsuit \to \bigstar, \blacktriangledown \to \clubsuit$ When a DVD or set-top box is connected to your TV via HDMI, it may cause a degradation in the screen quality, such as an increase in the black level, a low contrast, or discoloration, etc., depending on the external device connected. In this case, adjust the screen quality of your HDMI Black TV by configuring the HDMI black level. Level - Operates only for HDMI mode. $\mathsf{MENU} \to \blacktriangle, \blacktriangledown \to \clubsuit \to \bigstar, \blacktriangledown \to \clubsuit \to \bigstar, \blacktriangledown \to \clubsuit$ MPA (Motion Picture Acceleration-Motion Picture Acceleration) This function is used to play movies. You can enjoy better screen quality. MPA If your monitor is used as a normal monitor, turn this function Off. $\mathsf{MENU} \to \underline{\blacktriangle}\,, \overline{\Psi} \to \textcircled{\bulletl} \to \underline{\bigstar}\,, \overline{\Psi} \to \textcircled{\bulletl} \to \underline{\bigstar}\,, \overline{\Psi} \to \textcircled{\bulletl}$ The Safety Screen function is used to prevent afterimages that may appear when a still picture is displayed on the screen over a long time. - The Screen Scroll function scrolls the screen for the specified period of time Safety - This function is not available when the power is turned off. Screen 1) Safety Screen : Determines whether to turn the Screen Scroll function Off or On. Interval 2) Interval Safety : Determines the time interval to run the Screen Scroll operation. Screen (1~10 Hour) Second The time is calculated on the basis of the power on time. 3) Second Туре : Determines the time period to run the Screen Scroll operation. (10~50 Second) 4) Type : You can change the Safety Screen Type. (Pixel, Bar, Eraser) $\mathsf{MENU} \to \underline{\blacktriangle}\,, \overline{\Psi} \to \textcircled{\bulletl} \to \underline{\bigstar}\,, \overline{\Psi} \to \textcircled{\bulletl} \to \underline{\bigstar}\,, \overline{\Psi} \to \textcircled{\bulletl}$ When your PC is in Power Saving mode, and this function is turned 'On', power is supplied to the 'AUDIO POWER' terminal of the external speaker on the back of your monitor. If this function is turned 'Off', power Audio Power is not supplied to that terminal. $\mathsf{MENU} \to \blacktriangle, \blacktriangledown \to \textcircled{\bullet} \to \bigstar, \blacktriangledown \to \textcircled{\bullet} \to \bigstar, \blacktriangledown \to \textcircled{\bullet}$ Adjusts the brightness of the Power LED. The higher the level, the brighter the Power LED. If you set a brightness level, the LED blinks and is saved after one LED Brightness second. $\mathsf{MENU} \to \underline{\blacktriangle}\,, \overline{\Psi} \to \underline{\clubsuit}\,, \overline{\Psi} \to \underline{\bigstar}\,, \overline{\Psi} \to \underline{\Box}\,, \overline{\Box}\,, \underline{\Box}\,, \underline{\Box}$

Picture parameters are replaced with the factory default values.

1) Image Reset
: Image parameters are replaced with the factory default values.
- Available in PC mode only
2) Color Reset
: Color parameters are replaced with the factory default values.
- Available in PC/DVI(PC) Mode Only - Not available in MagicBright™ mode of Dynamic CR.

 $\mathsf{MENU} \rightarrow \underline{\blacktriangle}, \overline{\Psi} \rightarrow \underbrace{\textcircled{}} \rightarrow \underline{\bigstar}, \overline{\Psi} \rightarrow \underbrace{\textcircled{}} \rightarrow \underbrace{\clubsuit}, \overline{\Psi} \rightarrow \underbrace{\Psi}, \overline{\Psi} \rightarrow \underbrace{\Psi}$

Reset





	depending on the mo specifications are sub	ance of the product may vary del, and the product ject to change without prior performance enhancement.	
Safety Precautions	Introduction	Connections	 Using the Software
ourery riceautions			

O Troubleshooting

Check List Q & A Se

Self-Test

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 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 "Check signal cable" on the screen?	 (Connected using the D-sub cable) Check the signal cable connection. (Connected using the DVI cable) If you still see an error message on the screen when the monitor is connected properly, check to see if the monitor status is set to analog. Press 'source' button to have the monitor double-check the input signal source.
	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) If the initial screen (the login screen) does not appear, contact the Service Center or your dealer.
	Can you see "Not Optimum Mode", "Recommended Mode 1920 x 1200 60 Hz" on the screen?	You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly. Adjust the maximum resolution and frequency that the monitor can handle properly. If the display exceeds SXGA or 75 Hz, a "Not Optimum Mode", "Recommended Mode 1920 x 1200 60 Hz" message is displayed. If the display exceeds 85 Hz, the display will work properly but the "Not Optimum Mode", "Recommended Mode 1920 x 1200 60 Hz" message appears for one minute and then disappears. Please change to the recommended mode during this one-minute period. (The message is displayed again if the system is rebooted.)
	There is no image on the screen.	The monitor is in PowerSaver mode.

	Is the power indicator on the monitor blinking at 1 second intervals?	Press a key on the keyboard to activate the monitor and restore the image on the screen.
		If there is still no image, press the 'source' button. Then press any key on the keyboard again to activate the monitor and restore the image on the screen.
	Connected using the DVI cable?	You may get a blank screen if you boot the system before you connect the DVI cable, or disconnect and then reconnect the DVI cable while the system is running as certain types of graphic cards do not send out video signals. Connect the DVI cable and then reboot the system.
l 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	Is the screen	Check the signal cable connection.
strange colors or just black and white.	displaying only one color as if looking at the screen through a cellophane paper?	Make sure the video card is fully inserted in its 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 unb Readjust Position by re	palanced due to the cycle of the video card signals. eferring to the OSD.
The screen is out of focus or OSD cannot be adjusted.	Have you adjusted the resolution or frequency on the monitor?	Adjust the resolution and frequency of the video card. (Refer to the Preset Timing Modes).
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	Have the Windows colors been set properly?	Windows XP : Set the resolution at the Control Panel \rightarrow Appearance and Themes \rightarrow Display \rightarrow Settings.
changed after changing the video card.		Windows ME/2000 : Set the resolution at the Control Panel \rightarrow Display \rightarrow Settings.
	Has the video card been set properly?	Set the video card by referring to the video card manual.

There is a message that reads "Unrecognized monitor, Plug & Play (VESA DDC) monitor found".	Have you installed the monitor driver?	Install the monitor driver according to the Driver Installation Instructions.
	See the video card manual to see if the Plug & Play (VESA DDC) function can be supported.	Install the monitor driver according to the Driver Installation Instructions.
Check when MagicTune™ does	MagicTune™ feature is found only	* To check whether your PC is available for MagicTune™ feature, follow the steps below (When Windows is XP);
not function properly.	on PC (VGA) with Window OS that supports Plug and Play.	Control Panel \rightarrow Performance and Maintenance \rightarrow System \rightarrow Hardware \rightarrow Device Manager \rightarrow Monitors \rightarrow After deleting Plug and Play monitor, find 'Plug and Play monitor' by searching new Hardware.
		MagicTune [™] is an additional software for the monitor. Some graphic cards may not support your monitor. When you have a problem with the graphic card, visit our website to check the compatible graphic card list provided. http://www.samsung.com/monitor/magictune
MagicTune™ doesn't work properly.	Have you changed your PC or video graphic card?	Download the latest program. The program can be downloaded http://www.samsung.com/monitor/magictune
	Did you install the program?	Reboot the computer after installing the program for the first time. If a copy of the program is already installed, remove it, reboot the computer, and then install the program again. You need to reboot the computer for it to operate normally after installing or removing the program.

× Visit the MagicTune[™] website and download the installation software for MagicTune[™] MAC.

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

- Check if the power cord and the video cables are properly connected to the computer.
- Check if the computer beeps more than 3 times when booting. (If it does, request an after-service for the main board of the computer.)
- **D** If you installed a new video card or assembled the PC, please check if the adapter(video) driver and the monitor driver are properly installed.
- Check if the scanning ratio of the video screen is set at 56 Hz ~ 75 Hz. (Do not exceed 60 Hz when using the maximum resolution.)
- If you have problems in installing the adapter (video) driver, boot the computer in Safe Mode, remove the Display Adapter at the "Control Panel → System → Device Administrator" and then reboot the computer to reinstall the adapter (video) driver.

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

Check List Q & A Self-Test

🚺 Q & A

Question	Answer
How can I change the frequency?	Frequency can be changed by reconfiguring the video card.
	Note that video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)
How can I adjust the resolution?	Windows XP :

	Set the resolution at the Control Panel \rightarrow Appearance and Themes \rightarrow Display \rightarrow Settings.
	Windows ME/2000 : Set the resolution at the Control Panel \rightarrow Display \rightarrow Settings.
	imes Contact the video card manufacturer for details.
How can I set the Power Saving function?	Windows XP : Set the resolution at the Control Panel \rightarrow Appearance and Themes \rightarrow Display \rightarrow Screen Saver. Set the function at BIOS-SETUP of the computer.
	Windows ME/2000 : Set the resolution at the Control Panel → Display → Screen Saver. Set the function at BIOS-SETUP of the computer.
	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.

Check List Q & A Self-Test

Self-Test

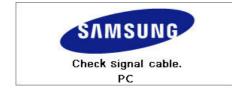
Self-Test Feature Check | Warning Messages | Environment | Useful Tips

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

Self-Test Feature Check A

- Turn off both your computer and the monitor.
- 2 Unplug the video cable from the back of the computer.
- 3 Turn on the monitor.

If the monitor is functioning properly, you will see a box in the illustration below.



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

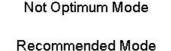
4 Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

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

Warning Messages [▲]

If there is something wrong with the input signal, 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.



1920 x 1200 60Hz

Environment A

- D The location and the position of the monitor may influence the quality and other features of the monitor.
 - If there are any sub woofer speakers near the monitor, unplug and relocate the woofer to another room.

Remove all electronic devices such as radios, fans, clocks and telephones that are within 3 feet (one meter) of the monitor.

- D 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 the Service Center or your dealer.
- Judging the monitor's working condition

If there is no image on the screen or a "Not Optimum Mode", "Recommended Mode 1920 x 1200 60 Hz" message comes up, disconnect the cable from the computer while the monitor is still powered on.

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



	depending on the mo specifications are sub	ance of the product may vary del, and the product ject to change without prior performance enhancement.	
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O Specifications

Specifications PowerSaver Preset Timing Modes

Specifications

General		
Model Name	SyncMaster 245T	
LCD Panel		
Size	24" Wide Diagonal (61 cm)	
Display area	518.4 mm(H) x 324.0 mm(V)	
Pixel Pitch	0.270 mm(H) x 0.270 mm(W)	
Synchronization		
Horizontal	30 ~ 81 kHz	
Vertical	56 ~ 75 Hz	
Display Color		
16.7M		
Resolution		
Optimum resolution	1920x1200 @60 Hz	
Maximum resolution	1920x1200 @60 Hz	
For the detailed timing mode of each mode, refer to Preset Timing Modes.		
Input Signal, Terminated		
RGB Analog, DVI-D(Digital Visual Interface) 0.7 Vp-p \pm 5% TTL level (V high \geq 2.5 V, V low \leq 0.8 V)		
Maximum Pixel Clock		
154 MHz		
Power Supply		
AC 100-240 VAC (± 10 %), 60/50Hz ± 3Hz		

Signal Cable

15pin-to-15pin D-sub cable, Detachable DVI-D to DVI-D connector, Detachable (Sold separately)

Signal Connectors

15pin 3-row D-sub connector, 24pin 3-row DVI-D connector, Composite Video(RCA), S-Video, Component

Dimensions (W x H x D) / Weight

560.5 X 369.0 X 91.0 mm / 22.1 x 14.5 x 3.6 inch (Without Stand) 560.5 X 460.0 X 250.0 mm / 22.1 x 18.1 x 9.8 inch (With Stand) / 8.8 kg / 19.4 lbs

VESA Mounting Interface

200 mm x 100 mm

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 1 ppm (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 6,912,000.

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

Class B Equipment (Information Communication equipment for residential use)

This product complies with the Electromagnetic Compatibility Directives for residential use and can be used in all areas including common residential areas.

(Class B equipment emits less electromagnetic waves than Class A equipment.)

Specifications PowerSaver Preset Timing Modes

PowerSaver

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

State

Normal Operation

Power saving mode

Power off (Power Switch)

Power Indicator	Blue	Blue Blinking	Black
Power Consumption	Less than 130 watts	Less than 2 Watts	0 watts
Energy STAR	compliant when used v functionality. As an ENERGY STAR	NERGY STAR [®] compliant ar with a computer equipped wit [®] Partner, SAMSUNG has d ERGY STAR [®] guidelines for	th VESA DPM etermined that this

Specifications PowerSaver Preset Timing Modes

Preset Timing Modes

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

Preset Timing Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (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	-/-
MAC,1152 x 870	68.681	75.062	100.000	-/-
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, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+

VESA, 1280 x

1024	79.976	75.025	135.000	+/+
VESA, 1600 x 1200	75.000	60.000	162.000	+/+
VESA, 1920 x 1200	74.038	59.950	154.000	+/-

Horizontal Frequency



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

Vertical Frequency

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

The supported modes for each external input signal

Supported Resolutions

Input Source	480i @60Hz	576i @50Hz	480p @60Hz	576p @50Hz	720p @50/60Hz	1080i @50/60Hz	1080p @50/60Hz
Component	0	0	0	0	0	0	0
HDMI	х	х	0	0	0	Ο	0

Input Source

Supported Systems

AV(CVBS) N	TSC-3.58, NTSC-4.43	, PAL-M/N, SECAM
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S-VIDEO NTSC-3.58, NTSC-4.43, PAL-M/N, SECAM



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Contact SAMSUNG WORLDWIDE Terms For Better Display Authority

Contact SAMSUNG WORLDWIDE

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

North America

U.S.A	1-800-SAMSUNG (7267864)	http://www.samsung.com
CANADA	1-800-SAMSUNG (7267864)	http://www.samsung.com/ca
MEXICO	01-800-SAMSUNG (7267864)	http://www.samsung.com/mx
Latin America		
ARGENTINE	0800-333-3733	http://www.samsung.com/ar
BRAZIL	4004-0000	http://www.samsung.com/br
CHILE	800-726-7864 (SAMSUNG)	http://www.samsung.com/cl
COLOMBIA	01-8000112112	http://www.samsung.com.co
COSTA RICA	0-800-507-7267	http://www.samsung.com/latin
ECUADOR	1-800-10-7267	http://www.samsung.com/latin
EL SALVADOR	800-6225	http://www.samsung.com/latin
GUATEMALA	1-800-299-0013	http://www.samsung.com/latin
JAMAICA	1-800-234-7267	http://www.samsung.com/latin
PANAMA	800-7267	http://www.samsung.com/latin
PUERTO RICO	1-800-682-3180	http://www.samsung.com/latin
REP. DOMINICA	1-800-751-2676	http://www.samsung.com/latin
TRINIDAD & TOBAGO	1-800-7267-864	http://www.samsung.com/latin
VENEZUELA	0-800-100-5303	http://www.samsung.com/latin

Europe

BELGIUM	03 201 2418	http://www.samsung.com/be
CZECH REPUBLIC	844 000 844	http://www.samsung.com/cz
	Distributor pro Českou republiku: Samsung Zrt., česka organizační složka	Vyskočilova 4, 14000 Praha 4
DENMARK	70 70 19 70	http://www.samsung.com/dk
FINLAND	030-6227 515	http://www.samsung.com/fi
FRANCE	3260 SAMSUNG(7267864) (€ 0,15/min)	http://www.samsung.com/fr
GERMANY	01805 - 121213 (€ 0,14/Min)	http://www.samsung.de
HUNGARY	06-80-SAMSUNG (7267864)	http://www.samsung.com/hu
ITALIA	800 SAMSUNG (7267864)	http://www.samsung.com/it
LUXEMBURG	0032 (0)2 201 24 18	http://www.samsung.lu
NETHERLANDS	0900 20 200 88 (€ 0,10/Min)	http://www.samsung.com/nl
NORWAY	815-56 480	http://www.samsung.com/no
POLAND	0 801 801 881	http://www.samsung.com/pl
PORTUGAL	80 8 200 128	http://www.samsung.com/pt
REPUBLIC OF IRELAND	0818 717 100	http://www.samsung.com/uk
SLOVAKIA	0800-SAMSUNG (7267864)	http://www.samsung.com/sk
SPAIN	903 10 11 30	http://www.samsung.com/es
SWEDEN	0771-400 200	http://www.samsung.com/se
SWITZERLAND	0800-7267864	http://www.samsung.com/ch
U.K	0870 SAMSUNG (7267864)	http://www.samsung.com/uk
CIS		
ESTONIA	800-7267	http://www.samsung.ee
LATVIA	800-7267	http://www.samsung.com/lv
LITHUANIA	8-800-77777	http://www.samsung.lt
KAZAKHSTAN	8 800 080 1188	http://www.samsung.kz
RUSSIA	8-800-200-0400	http://www.samsung.ru
UKRAINE	8-800-503-0000	http://www.samsung.com/ur
UZBEKISTAN	140-1234	http://www.samsung.uz
Asia Pacific		
AUSTRALIA	1300 362 603	http://www.samsung.com/au
CHINA	800-810-5858, 010- 6475 1880	http://www.samsung.com.cn
HONG KONG	3698-4698	http://www.samsung.com/hk

INDIA	3030 8282, 1800 1100 11	http://www.samsung.com/in
INDONESIA	0800-112-8888	http://www.samsung.com/id
JAPAN	0120-327-527	http://www.samsung.com/jp
MALAYSIA	1800-88-9999	http://www.samsung.com/my
PHILIPPINES	1800-10-SAMSUNG (7267864)	http://www.samsung.com/ph
SINGAPORE	1800-SAMSUNG (7267864)	http://www.samsung.com/sg
THAILAND	1800-29-3232, 03-689-3232	http://www.samsung.com/th
TAIWAN	0800-329-999	http://www.samsung.com/tw
VIETNAM	1 800 588 889	http://www.samsung.com/vn
Middle East & Africa		
SOUTH AFRICA	0860 7267864 (SAMSUNG)	http://www.samsung.com/za
U.A.E	800SAMSUNG (7267864) 8000-4726	http://www.samsung.com/mea

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Terms

For Better Display Authority

Terms

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

Vertical Frequency

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

Example : If the same light repeats itself 60 times per second, this is regarded as 60 Hz.

Horizontal Frequency

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

Interlace and Non-Interlace Methods

- Showing the horizontal lines of the screen from the top to the bottom in order is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.
- Plug & Play
- This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.

Resolution

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

Example : If the resolution is 1920 x 1200 , this means the screen is composed of 1920 horizontal dots (horizontal resolution) and 1200 vertical lines (vertical resolution).

S-Video

Short for "Super Video." S-Video allows up to 800 lines of horizontal resolution, enabling high-quality video.

External Device Input

External device input refers to video input from such external video devices as VCRs, camcorders and DVD players, separate from a TV broadcast.

DVD

A type of digital disk technology that takes up only the benefits of CD and LD, to implement a high resolution/quality, which enables the user to enjoy clearer images.

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- Adjust computer resolution and screen injection rate (refresh rate) oncomputer 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.
 - Resolution : 1920 x 1200
 - Vertical frequency (refresh rate) : 60 Hz
- 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 6,912,000.
- 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.

If you are not satisfied with the quality of the picture, you can get better quality of the picture by executing "auto adjustment function" in display screen that is appeared as window termination button is pressed.
If there is a till poice after automatic adjustment use EINE/COAPSE adjustment function.

If there's still noise after automatic adjustment, use FINE/COARSE adjustment function.

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 move the picture when you need to be away from the monitor for an extended period of time.

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