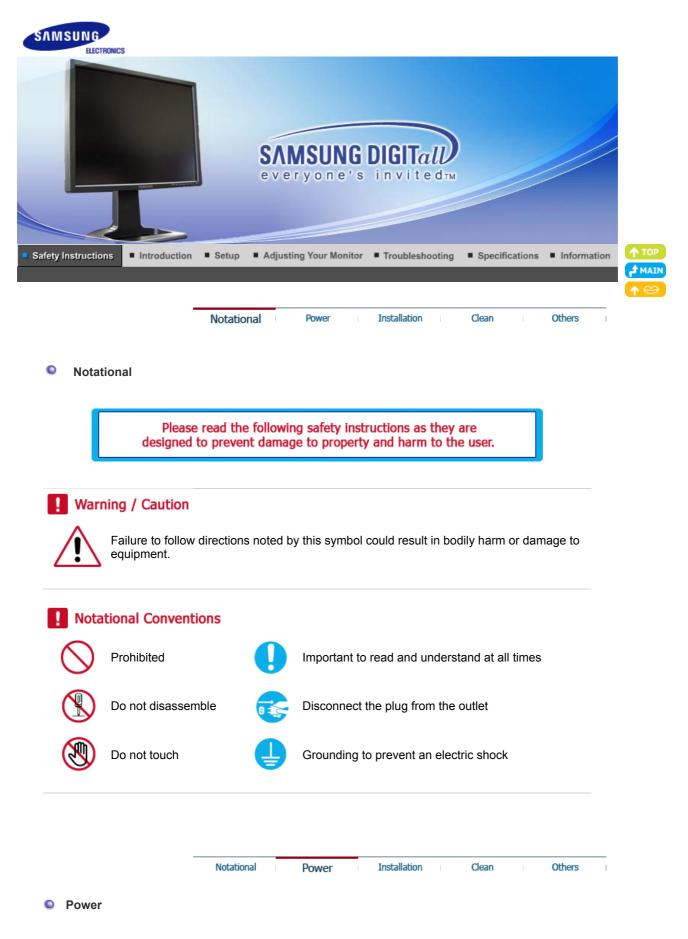




Syncuration 214T Install drivers Install programs Mindows Me Mindows 98 Matural Color Mindows Me Mindows 98 MagicTuneTM Mindows Me Mind





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



Do not use a damaged or loose plug.

• This may cause an electric shock or fire.

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

• This may cause an electric shock or fire.



Use only a properly grounded plug and receptacle.

• An improper ground may cause electric shock or equipment damage.



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 an electric shock or fire.



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

• This may cause fire.

Notational	Power	Installation	Clean	Others

Installation



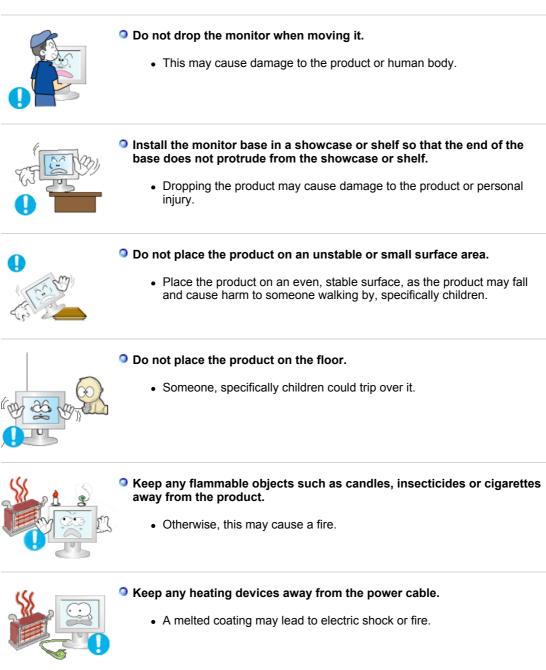
Be sure to contact an authorized Service Center when installing your set in a location with heavy dust, high or low temperatures, high humidity, and chemical substances, or where it will be operated for 24 hours continuously such as an airport, train station or etc.

Failure to do so may cause serious damage to your set.

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

• Failure to do so may cause an electric shock or fire inside the monitor.







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



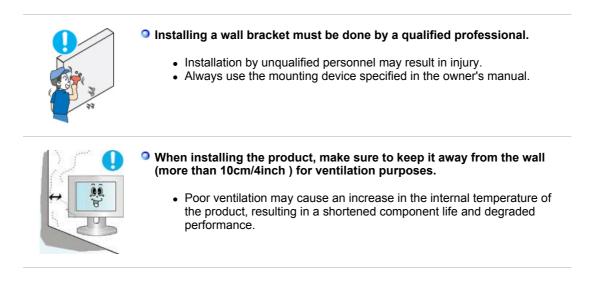
Set down the monitor carefully.

• The monitor could be damaged or broken.

Do not place the monitor face down.



• The TFT-LCD surface may be damaged.



Notational Power Installation Clean

Others

Clean



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



Do not spray water or detergent directly on the monitor.

• This may cause damage, electric shock or fire.



Use the recommended detergent with a smooth cloth.



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

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

Make sure to unplug the power cord before cleaning the product.

• Otherwise, this may cause electric shock or fire.





• Unplug the power cord from the power outlet and wipe the product using a soft, dry cloth.

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



Contact the Service Center or Customer Center for interior cleaning once a year.

• Keep the product's interior clean. Dust which has accumulated in the interior over an extended period of time may cause malfunction or fire.

	Notational Power Installation Clean Others
Others	
	 Do not remove cover (or back). This may cause an electric shock or fire. Refer servicing to qualified service personnel.
	 If your monitor does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service center. This may cause an 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 malfunction, an electric shock or fire. Especially 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 Service Center. The monitor may malfunction, causing an electric shock or fire.
	Disconnect the plug from the outlet during storms or lightening or if it is not used for a long period of time.

Failure to do so may cause an electric shock or fire.





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

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



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

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



Do not cover the vents on the monitor cabinet.

• Bad ventilation may cause a breakdown or fire.



Do not place water containers, chemical products or small metal objects on the monitor.

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



Seep the product away from combustible chemical sprays or inflammable substances.

• This may cause an explosion or fire.



Never insert anything metallic into the monitor openings.

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



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

• It may cause a fire or an electric shock. If an alien substances or water flows into the product, turn the product off, unplug the power connector from the wall outlet and contact Service Center.

If you view a fixed screen for an extended period of time, residual image or blurriness may appear.

• Change the mode to energy save or set a screensaver to moving picture when you need to be away from the monitor for an extended period of time.





- Adjust the resolution and frequency to the levels appropriate for the model.
 - Inappropriate resolution may cause undesirable picture quality.
 - 21 inch (54cm) 1600 X 1200 @ 60 Hz



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



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



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



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

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



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

• A falling product could cause physical damage even death.



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

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



Do not place children's favorite objects (or anything else that may be tempting) on the product.

• Children may try to climb on the product to retrieve an object. The product could fall, causing physical damage or even death.





Manual



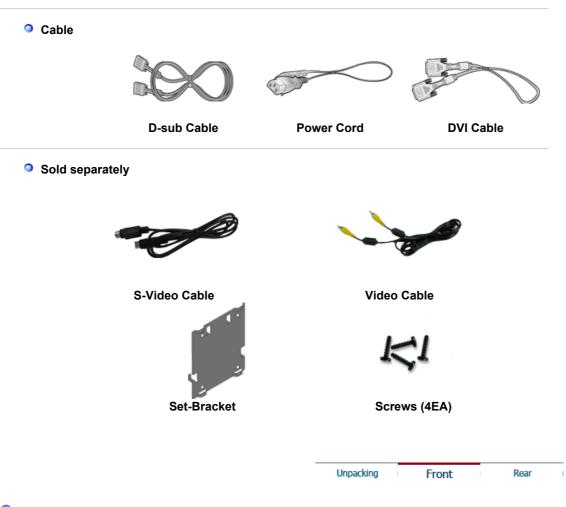




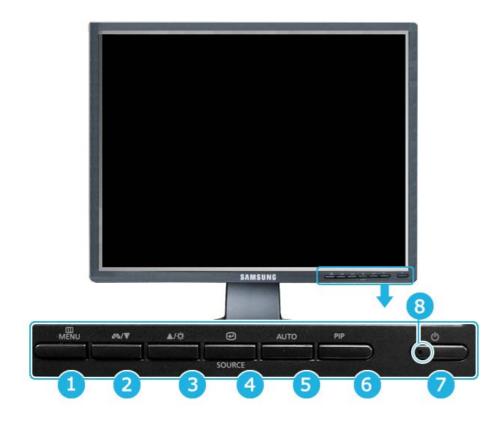
Quick Setup Guide

Warranty Card User (Not available in all locations) M

User's Guide, Monitor Driver, Natural Color, MagicTune™, MagicRotation software



Front



Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.

These buttons allow you to adjust items in the menu.

Adjust buttons [▼/▲]

1

MENU button [III]

Analog/Digital(PC) : MagicBright™ button [∡⊾] MagicBright[™] is a new feature providing the optimum viewing environment depending on the contents of the image you are watching. Currently four different modes are available: Custom, Entertain, Internet, and Text. Each mode has its own preconfigured brightness value. You can easily select one of four settings by simply pressing MagicBright[™] control buttons.

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

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

- 2) Entertain : High brightness For watching motion pictures such as a DVD or Video CD.
- **3) Internet** : Medium brightness For working with a mixture of images such as text and graphics.
- 4) Text : Normal brightness

For documentations or works involving heavy text.

>>Click here to see an animation clip

Digital(DVD)/Video /S-Video : 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.

2) 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
3	Brightness button [꺅]	(Available in Analog Mode Only) When OSD is not on the screen, push the button to adjust brightness. >>Click here to see an animation clip
4	Enter button [@] / SOURCE button	Activates a highlighted menu item. / Push the ' SOURCE ', 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 Analog, Digital, Video and S- Video input signal.) Note : Changing the source is allowed only in external devices that are connected to the monitor at the time.
6	AUTO button	(Available in Analog 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
6	PIP button	(Available in Analog/Digital(PC) Mode Only) In Analog or Digital Mode, turns on Video screens in PIP Mode.
7	Power button [0]	Use this button for turn the monitor on and off.
8	Power Indicator	This will enable you to see the overall power status of the system. For more information, see the PowerSaver section.



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

Unpacking Front

Rear

Rear

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





POWER S/W : Switch the monitor on and off.

POWER IN

: Connect the power cord for your monitor to the $\ensuremath{\textbf{POWER IN}}$ on the back of the monitor.



DVI IN (Source List : Digital) : Connect the DVI cable to the DVI IN port on the back of your monitor.



RGB IN (Source List : Analog) : Connect the signal cable to the 15-pin, RGB IN port on the back of your monitor.



: External device (video) input terminal **S-VIDEO (Source List : S-Video)** : External device (S-video) input terminal



Kensington Lock

: The Kensington lock is a device used to physically fix the 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.



Stand Height Adjustment

1. Press the top side of the stand and then push the button at the rear bottom of the stand.

2. Press the top side of the stand and then push the button at the rear bottom of the stand. You can adjust the stand height using this button.



When you are using a stand height as maximum,

it will go down a little bit from spring elasticity.



See Connecting the Monitor for further information regarding cable connections.



Connecting the Monitor Using the Stand I Installing the Monitor Driver I Installing the Monitor Driver Natural Color (Automatic) (Manual)

Connecting the Monitor



- 1. Connect the power cord for your monitor to the **POWER IN** on the back of the monitor. Plug the power cord for the monitor into a nearby outlet.
- 2-1. Using the D-sub (Analog) connector on the video card. Connect the signal cable to the 15-pin, RGB IN port on the back of your monitor.
- 2-2. Using the DVI (Digital) connector on the video card.
 Connect the DVI cable to the DVI IN port on the back of your monitor.
- **2-3.** Connected to a Macintosh. Connect the monitor to the Macintosh computer using the D-sub connection cable.
- **2-4.** In the case of an old model Macintosh, you need to connect the monitor using a special Mac adapter.
- **3.** Turn on your computer and monitor. If your monitor displays an image, installation is complete.



Cable Fix Ring

When connecting the cable is finished, fix the cables to the





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.

1. 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.



1. Input devices such as DVD, VCR or Camcorder are connected to the VIDEO or S-VIDEO terminal of the monitor using the Video or S-Video cable.



Video, S-Video cable are optional.

- 2. Then, start the DVD, VCR or Camcorder with a DVD disc or tape inserted.
- 3. Select Video or S-Video using the SOURCE button.

2. Connecting Digital DVD

The monitor has DVI IN connection terminals to connect DVI input devices digital DVD.



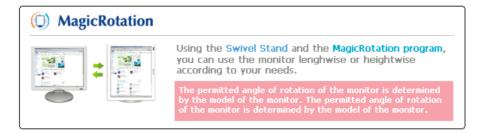
- 1. Input devices such as digital DVD are connected to the **DVI IN** terminal of the monitor using the DVI cable.
- 2. Then, start the DVD with a DVD disc inserted.
- 3. Select **Digital** using the **SOURCE button**.

Connecting the	Monitor	Using the Stand	Installing the Monitor Driver (Automatic)	Installing the Monitor Driver (Manual)	Natural Color

Т

Using the Stand

Pivot Stand





Using (a), you can rotate the screen within a range of 0 ~ 90 degrees. Using (b), you can use the screen lengthwise. Press the top side of the stand and then push the button at the rear bottom of the stand. You can adjust the stand height using this button. When you are using a stand height as maximum, it will go down a little bit from spring elasticity.

If you rotate the screen without lifting it to its maximum height, the screen may be damaged because the edge of the screen would hit the floor.

Tilt angle

∕∧



Using (c), you can adjust the height. You can adjust the tilt within a range of $0 \sim 25$ degrees. Using (d), you can horizontally rotate it within a range of -45 ~ 45 degrees.

Removing the base



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

Attaching a Base

This monitor accepts a 100 mm x 100 mm VESA-compliant mounting interface pad.



A. 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.
- 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.

Connecting the Monitor Using the Stand	Installing the Monitor Driver (Automatic)	Installing the Monitor Driver (Manual)	Natural Color
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Installing the Monitor Driver (Automatic)

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

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

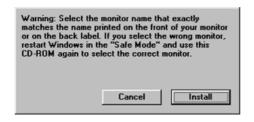
Internet web site :	http://www.samsung.com/ (Worldwide) http://www.samsung.com/monitor (U.S.A)	
	http://www.sec.co.kr/monitor (Korea)	
	http://www.samsungmonitor.com.cn/ (China)	

Windows ME

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



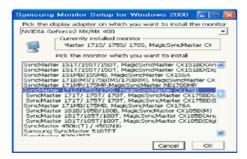
4. Click the "Install" button in the "Warning" window.



5. Monitor driver installation is completed.

Windows XP/2000

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



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

Hardware	Installation
<u> </u>	The software you are installing for this hardware: SyncMaster 1715/ 1755/ 1705, MagicSyncMaster CK1755 has not passed Windows Logo testing to verify its compatibility with Windows XP. [Cell me why this testins is impostart]. Continuing your installation of this software may impair or destabilise the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway



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

5. Monitor driver installation is completed.

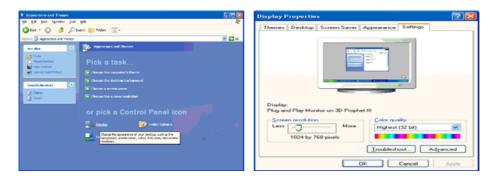
Connecting the Monitor U	sing the Stand Installing the Monitor Driver (Automatic)	Installing the Monitor Driver Natural Colo (Manual)
Installing the Monitor	r Driver (Manual)	
	Windows XP Windows 20	000 Windows Me Windows NT Linux
included with th	is monitor. Driver installation is s	monitor driver, insert the CD-ROM slightly different from one operating iate for the operating system you
Prepare a blank here.	disk and download the driver progra	m file at the Internet web site shown
Internet web site :	http://www.samsung.com/ (World http://www.samsung.com/monito http://www.sec.co.kr/monitor (Ko http://www.samsungmonitor.com	r (U.Ś.A) rea)

Microsoft[®] Windows[®] XP Operating System

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



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



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

Plug and Play Monitor and 3D Prophet III Properties 👘 🔀	Plug and Play Monitor Properties	· 🕜 🔀
GeForce3 Color Correction General Adapte Monitor Troubleshoot Color Management Monitor Plug and Play Monitor Plug and Play Monitor Properties Monitor settings Screen refresh rate: Go Hentz Lide modes that this monitor carmot display Dearing this check box allows you to select display modes that this monitor that we way that this monitor carmot display and/or damaged hardware.	General Driver Plug and Play Monitor Device type: Monitors Manufacture: (Clandad monitor types) Location: on 3D Prophet III Device status This device is working properly. If you are having problems with this device, click Troubleshoot to start the troubleshooter.	
OK Cancel Apply	I roubleshoot Device usage: Use this device (enable) OK	Cancel

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



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

Hardware Update Wizard	Hardware Update Wizard
Please choose your search and installation options.	Select the device driver you want to install for this hardware.
Qeach for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.	Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Search removable media (lloppy, CD-ROM)	Show compatible hardware
Include this location in the search:	Model
A:\ V Bjowse	Plug and Play Monitor
Don't search. I will choose the driver to install.	
Choose this option to select the device driver from a list. Windows does not guarantee that	
the driver you choose will be the best match for your hardware.	This driver is digitally signed. Have Disk Influee.why. driver, isoping is, important
Cancel	< Back New > Cancel

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

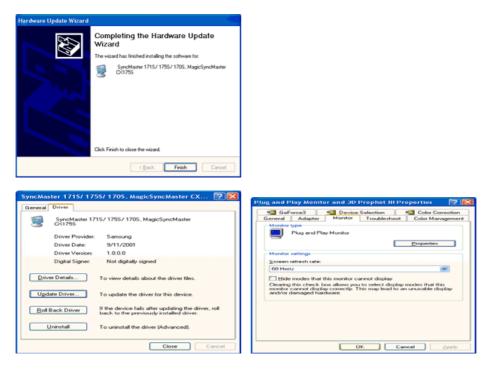
Install F	rom Disk		Hardware Update Wizard
1-D	Insert the manufacturer's installation disk, and then		Select the device driver you want to install for this hardware.
4	make sure that the correct drive is selected below.	OK Cancel	Select the manufacturer and model of your hardware device and then click. Next. If you have a delt that contains the driver you want to install, click Have Disk.
			Model SyncMaiter 1715/1705/1705, MagicSyndMaiter DC1755
	Copy manufacturer's files from:		This driver is not digitally signed! <u>Init ne who driver signing is important</u>
		Browse	< Back Next> Cancel

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



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

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



- 10. Monitor driver installation is completed.
- Microsoft[®] Windows[®] 2000 Operating System

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

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

🔀 How to install

- 1. Click "Start", "Setting", "Control Panel".
- 2. Double click the "Display" Icon.
- 3. Choose the "Settings" tab and then click "Advanced..".
- 4. Choose "Monitor".

Case1: If the "Properties" button is inactive, it means your monitor is properly configured. Please stop installation

Case2: If the "Properties" button is active, click the "Properties" button then follow next steps continually.

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

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

Microsoft[®] Windows[®] Millennium Operating System

- Click "Start", "Setting", "Control Panel".
 Double click "Display" icon.
- 3. Select the "Settings" tab and click "Advanced Properties" button.
- 4. Select the "Monitor" tab.
- 5. Click the "Change" button in the "Monitor Type" area.
- 6. Choose "Specify the location of the driver".
- 7. Choose "Display a list of all the driver in a specific location.." then click "Next" button.
- 8. Click the "Have Disk" button
- 9. Specify A:\(D:\driver) then click "OK" button.
- 10. Select "Show all devices" and choose the monitor that corresponds to the one you connected to your computer and click "OK".
- 11. Continue choosing "Close" button and "OK" button until you close the Display Properties dialogue box.

Microsoft[®] Windows[®] NT Operating System

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

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

Linux Operating System

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

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



Natural Color

Natural Color Software Program



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

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

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

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

How to install the Natural Color software

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

To install the program manually, insert the CD included with the Samsung monitor into the CD-ROM Drive, click the [Start] button of Windows and then select [Execute]. Enter D:\color\eng\setup.exe and then press the <Enter> key.

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

How to delete the Natural Color software program

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

Select Natural Color from the list and then click the "Add/Delete" button.



User Control Buttons Direct Functions OSD Functions I MagicTune™ I () MagicRotation



Use this button for open the on-screen menu and exits from the menu screen or closes screen adjustment menu.

4 5	Analog/Digital(PC) : MagicBright™ MagicBright™ is a new feature providing the optimum viewing environment depending on the contents of the image you are watching. Then push button again to circle through available preconfigured modes. (Custom → Entertain → Internet → Text)
	Digital(DVD)/Video/S-Video: Mode The Monitor has four automatic picture settings that are preset at the factory. Then push 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.
A	This button allows you to adjust items in the menu.
ø	When OSD is not on the screen, push the button to adjust brightness.
Ð	Press this button to activate a highlighted menu item.
SOURCE	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.



AUTO : Available in Analog mode only



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 video signal. The values of fine, coarse and position are adjusted automatically. (Available in Analog mode only)
AUTO	To make the automatic adjustment function sharper, execute the 'Auto Adjustment' function 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.

C Locked

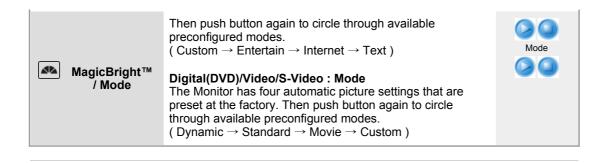


Menu	Description	Play/Stop
Locked	After pushing the "MENU" button more than 5 seconds, OSD function is locked (unlocked). Even if you use the OSD adjustment lock function, you can still adjust MagicBright [™] and Brightness and Contrast of the monitor.	MENU AUTO/PIP





Menu	Description	Play/Stop
	Analog/Digital(PC) : MagicBright™ MagicBright™ is a new feature providing the optimum viewing environment depending on the contents of the image you are watching.	MagicBright™



C Brightness : Available in Analog/Digital Mode Only



	Menu	Description
×	Brightness	When OSD is not on the screen, push the button to adjust brightness.

O SOURCE



Menu	Description
SOURCE	Selects the input 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 Analog, Digital, Video and S-Video input signal.) Note : Changing the source is allowed only in external devices that are connected to the monitor at the time.

PIP (Available in Analog/Digital(PC) Mode Only)



Menu	Description
PIP	Push the PIP button to turn PIP screen On/Off. Source : Video, S-Video

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
Source List	Use to select PC or other external input sources connected to the Monitor. Use to select the screen of your choice. 1) Analog 2) Digital 3) Video 4) S-Video	
Edit Name	Name the input device connected to the input jacks to make your input source selection easier. 1) Analog 2) Digital 3) Video 4) S-Video	

.

Picture (Analog / Digital : PC)





Menu	Description	Play/Stop
MagicBright™	 MagicBright[™] is a new feature providing the optimum viewing environment depending on the contents of the image you are watching. Currently four different modes are available: Text, Internet, Entertain and Custom. Each mode has its own pre-configured brightness value. You can easily select one of four settings by simply pressing MagicBright[™] [▲▲] button. 1) Entertain : High brightness For watching motion pictures such as a DVD or Video CD. 2) Internet : Medium brightness For working with a mixture of images such as text and graphics. 3) Text : Normal brightness For documentations or works involving heavy text. 4) 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. 	
Custom	 You can use the on-screen menus to change the contrast and brightness according to personal preference. 1) Contrast Adjust the Contrast. 2) Brightness Adjust the Brightness. 	Contrast Drightness
	 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 Analog Mode Only Coarse Removes noise such as vertical stripes. Coarse adjustment may move the screen image area. You 	Coarse Fine

Image Lock	 may relocate it to the center using the Horizontal Control menu. 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. 4) H-Position Adjusts the screen location horizontally. 5) V-Position Adjusts the screen location vertically. 	Sharpness H-Position V-Position
Auto Adjustment	The values of Fine, Coarse, position are adjusted automatically. If you change resolution in the control panel, Auto function will be executed. - Available in Analog Mode Only	
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. 2) 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. This function is only available for DVD titles supporting NTSC. (The broadcasting system is marked with "NTSC" or "PAL" above the DVD title) 	Contrast Bightness Sharpness Color Tint



Picture (Digital : Digital DVD)





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. 1) Dynamic Select this mode to view a sharper image than in "Standard" mode. 2) 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 	
Custom	 You can use the on-screen menus to change the contrast and brightness according to personal preference. 1) Contrast Adjust the Contrast. 2) Brightness Adjust the Brightness. 3) Sharpness Adjust the Sharpness. 4) Color Adjust the picture Color. 	Contrast Dirightness Dirightness Dirightness Dirightness Dirightness Color Color
Size	You can switch the Size. 1) Normal 2) Zoom1 3) Zoom2 4) Wide	00



Picture (Video/S-Video)



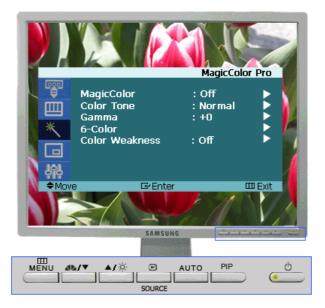


Menu	Description	Play/Stop
Mode	 The Monitor has four automatic picture settings ("Dynamic", "Standard", "Movie" and "Custom") that are preset at the factory. You can activate either Dynamic, Standard, Movie, or Custom. You can select "Custom" which automatically recalls your personalized picture settings. 1) Dynamic Select this mode to view a sharper image than in "Standard" mode. 2) 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 	
Custom	You can use the on-screen menus to change the contrast and brightness according to personal preference. 1) Contrast : Adjust the Contrast. 2) Brightness : Adjust the Brightness. 3) Sharpness : Adjust the Sharpness. 4) Color : Adjust the picture Color. 5) Tint	Contrast Brightness Sharpness Color

	: Adds a natural tone to the display. This function is only available for DVD titles supporting NTSC. (The broadcasting system is marked with "NTSC" or "PAL" above the DVD title)	Tint
Size	You can switch the Size. 1) Normal 2) Zoom1 3) Zoom2 4) Wide	
Film Mode	You can turn Film Mode Off / On. The Film Mode feature offers you a theater-quality viewing experience.	



C MagicColor Pro





Menu	Description	Play/Stop
MagicColor	 Implements the natural color chroma according to the display screen. Automatically adjusts to the display screen. Can improve the skin tones. Off Intelligent Enhance natural color except skin tone. Full Displays both natural skin tones and enhanced colors. Demo Displays the improved image on the left and the original on the right. 	
	Adjusts color tones to the preference of the user.	

Color Tone	Analog/Digital(PC) : Cool4 / Cool3 / Cool2 / Cool1 / Normal / Warm1 / Warm2 Digital(Digital DVD)/Video/S-Video : Cool2 / Cool1 / Normal / Warm1 / Warm2	
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.	00
	- Available in Analog/Digital(PC) Mode Only	
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. - The 6-Color function is only available when the Color Weakness function is turned Off. 	Saturation Hue Reset
Color Weakness	Enables those with color weakness to view the screen as easily as those with normal vision. 1) Off 2) Custom1 3) Custom2	



PIP (Analog / Digital : PC)





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

PIP	Turn the PIP Screen on or off. 1) Off 2) On	
Source	Select the input source for the PIP. Analog / Digital(PC) : Video / S-Video Mode	
Size	Change the Size of the PIP window. / / / / / / / / / / / / / / / / / / /	
Position	Change the Position of the PIP window.	



Setup





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 languages. 1) English 2) Deutsch 3) Français 4) Español 5) Italiano 6) Svenska 7) Português 8) Русский 9) 한국어 10) 中国语 11) 日本語	
Transparency	Changes the opaqueness of the background of the OSD. 1) High 2) Medium 3) Low 4) Opaque	00
Blue Screen	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".	
	Picture parameters are replaced with the factory default values.	Analog - Image Reset
Reset	 Image Reset Image parameters are replaced with the factory default values. Available in Analog Mode Only 	Analog - Color Reset
	 2) Color Reset Color parameters are replaced with the factory default values. Available in Analog/Digital(PC) Mode Only 	Digital : PC - Color Reset



Overview

Substitute State Sta

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

In most cases even simple adjustments to Brightness, or Contrast require navigation of the multi-level, on-screen display (OSD) menus that are not easy to understand. Furthermore, there is no feedback to assist in correctly setting the controls of the monitor. MagicTune[™] is a software utility that guides you through the tuning process with easy to understand instructions and back ground patterns designed for each monitor control. The display settings for each user can be saved, providing an easy way to select display characteristics in a multi-user environme or having a single user have multiple defined presets based on content and ambient lighting.

Basic Functionality

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

MagocTupe

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



OSD Mode

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

The MagicTune[™] program is an additional program for monitor products. Some computing systems that install either an older or the latest video driver are not compatible with MagicTune[™]. Please visit the MagicTune[™] Website for technical support for MagicTune[™].

Specifications subject to change without notice. MagicTune[™] is a trademark of SAMSUNG ELECTRONICS CO., Inc. Windows[™] is a registered trademark of Microsoft Corp. Other trademarks are property of their respective holders.



Overview | Installation | OSD Mode | Color | Uninstall | Troubleshooting

Installation

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



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

MT4.0 - InstallShield Wizard		X
	Welcome to the InstallShield Wizard for MT4.0	
	The InstallShield® Wizard will install MT4.0 on your computer. To continue, click Next.	
	< <u>Back</u> Cancel	

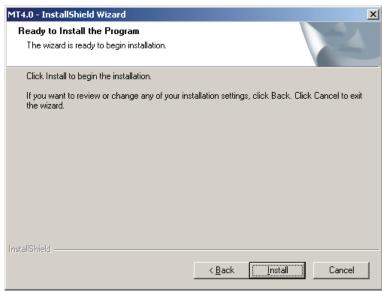
5. Select "I agree to the terms of the license agreement" to accept the terms of use.

1T4.0 - InstallShield Wizard			×
License Agreement Please read the following license agreement carefully.			
END-USER LICENSE AGREEMENT FOR SAMSUN SOFTWARE PRODUCT	G ELECTRONICS	i MagicTune	•
IMPORTANT-READ CAREFULLY: This Samsung Ele Agreement ("EULA") is a legal agreement between yo individual or a single entity) and Samsung Electronics ("SAMSUNG ELECTRONICS") with respect to the SA identified above. The SAMSUNG ELECTRONICS sol associated software components, media, printed mate or electronic documentation ("SOFTWARE PRODUC copying or using the SOFTWARE PRODUCT, you ag terms of this EULA. If you do not agree to the terms of	ou (either an Co., Ltd. AMSUNG ELECTI itware product ma erials and "online" (T"). By installing, gree to be bound t	RONICS product y include	T
 accept the terms of the license agreement I go not accept the terms of the license agreement 			
nstallShield	<u>B</u> ack <u>N</u> e>	kt > Can	icel

6. Choose a folder to install the MagicTune program.

MT4.0 - Inst	allShield Wizard			×
	restination Location Ider where setup will install files.			XX
	Install MT4.0 to: C:\Program Files\SEC\MT4.0			<u>C</u> hange
InstallShield –		< <u>B</u> ack	Next >	Cancel

7. Click "Install."



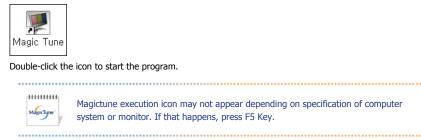
8. The "Installation Status" window appears.

MT4.0 - InstallShield Wizard	×
Setup Status	
MT4.0 is configuring your new software installation.	
Installing	
C:\Program Files\SEC\MT4.0\MTResIta.dll	
InstallShield	Cancel

9. Click "Finish."

MT4.0 - InstallShield Wizard	
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed MT4.0. Click Finish to exit the wizard.
	< <u>B</u> ack [Finish] Cancel

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



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11 Installation Problems

The installation of MagicTune[™] can be affected by such factors as the video card, motherboard and the network environment. See "Troubleshooting" if you have trouble during installation.

System Requirements

- Windows[™] 98 SE
- Windows[™] Me
- Windows[™] 2000
 Windows[™] XP Home Edition
- Windows[™] XP Professional

_____ MigicTune

It is recommended using MagicTune in Windows™ 2000 or later.

Hardware

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

* For more information, visit the MagicTune website.

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MagicTune[™] HELP

Uninstall Troubleshooting
he display with the ability to easily ist suited for you. with the explanation in ication of each monitor.
of MagicTune Program may not

SET OSD Mode

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

Button Tab Definition

ок	Applies any changes made and exits MagicTune.
Reset	Restores the display settings to the factory settings.
Cancel	Exits MagicTune without applying the changes made. If you have not made any changes in the control window, clicking "Cancel" does not cause any actions.

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Picture Tab Definition

ows the user to ad	just the screen settings to the desired values.
Brightness	Makes the entire screen brighter or darker. The detailed data of the images in the dark areas can be lost if the brightness is not adjusted to the proper level. Adjust the brightness for best viewing conditions.
Contrast	Adjusts the difference in brightness between the bright and dark areas on screen. Determines the crispness of the images.
Resolution	Lists all display resolutions supported by the program.
MagicBright™	MagicBright [™] is a new feature providing the optimum viewing environment depending on the contents of the image you are watching. Currently four different modes are available: Text, Internet, Entertain and Custom. Each mode has its own pre-configured brightness value. You can easily select one of four settings by simply pressing MagicBright control buttons.
	 Text: For documentations or works involving heavy text. Internet: For working with a mixture of images such as text and graphics. Entertain: For watching motion pictures such as a DVD or VCD.

Adjusts of the monitor image color. Or		4. 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.
Adjusts of the monitor image color. Olor Tone Olor Tone Adjusts of the monitor image color. Some monitor will only support Four modes(Warm, Normal, Cool, Custom) Adjusts of the monitor image color. You can change the monitor color to your desired color. Adjusts of the monitor image color. You can change the monitor color to your desired color. Image: Color Tone will only support Four modes(Warm, Normal, Cool, Custom) Adjusts of the monitor image color. You can change the monitor color to your desired color. Image: Color Tone will only support Four modes (Warm, Normal, Cool, Custom) Adjusts of the monitor image color. You can change the monitor color to your desired color. Image: Color Tone will only support Four modes (Warm, Normal, Cool, Custom) Adjusts of the monitor image color. You can change the monitor color to your desired color. Image: Color Tone will only support Four modes (Warm, Normal, Cool, Custom) Adjusts of the monitor image color. Image: Color Tone will only support four bolice are optimized and maintained. You will find details accurately reproduced - including web images and ones produced by a digital camera or scanner. Image: Color Tone will antial color but also more realistic natural skin color with dearness Image: Color Tone will not be adjustable in Magic	- Color	
Adjusts of the monitor image color. Olor Tone Olor Tone Adjusts of the monitor image color. Some monitor will only support Four modes(Warm, Normal, Cool, Custom) Adjusts of the monitor image color. You can change the monitor color to your desired color. Adjusts of the monitor image color. You can change the monitor color to your desired color. Image: Color Tone will only support Four modes(Warm, Normal, Cool, Custom) Adjusts of the monitor image color. You can change the monitor color to your desired color. Image: Color Tone will only support Four modes (Warm, Normal, Cool, Custom) Adjusts of the monitor image color. You can change the monitor color to your desired color. Image: Color Tone will only support Four modes (Warm, Normal, Cool, Custom) Adjusts of the monitor image color. You can change the monitor color to your desired color. Image: Color Tone will only support Four modes (Warm, Normal, Cool, Custom) Adjusts of the monitor image color. Image: Color Tone will only support four bolice are optimized and maintained. You will find details accurately reproduced - including web images and ones produced by a digital camera or scanner. Image: Color Tone will antial color but also more realistic natural skin color with dearness Image: Color Tone will not be adjustable in Magic	djusts the '	warmth" of the monitor background or image color.
 Warm2 - Warm1 - Normal - Cool 1 - Cool 2 - Cool 3 - Cool 4 Off olor Tone Color Tone mode will be different according to monitor models. Some monitor will only support Four modes(Warm, Normal, Cool, Custom) Adjusts of the monitor image color. You can change the monitor color to your desired color. Not Available The process through which the colors of your choice are optimized and maintained. You will find altbratton MagicTune extremely useful if you are one of those who wish to view images with their full details accurately reproduced - including web images and ones produced by a digital camera or scanner. MagicColor is a new technology that Samsung has exclusively developed to improve digital image and to display natural color more clearly without disturbing image quality. OFF : Returns to the original mode. DEMO : The screen before applying MagicColor appears on the right and the screen after applying MagicColor appears on the left. Full : Displays not only viti natural color but also more realistic natural skin color with clearness. HagicColor Depending on the monitor models Color Control, Sharpness, Contrast, Color Tone will not be adjustable in MagicColor mode of Full and Intelligent. Color Tone will not be adjustable in MagicColor mode of Full and Intelligent. 		MagicColor and Gamma will be shown only in the monitor that supports these
Off Idea and a second a seco		The tone of the color can be changed.
Color Tone mode will be different according to monitor models. Some monitor will only support Four modes(Warm, Normal, Cool, Custom) Adjusts of the monitor image color. You can change the monitor color to your desired color. • Not Available The process through which the colors of your choice are optimized and maintained. You will find alibration MagicColor is a new technology that Samsung has exclusively developed to improve digital image and to display natural color more clearly without disturbing image quality OFF : Returns to the original mode OFF : Returns to the original mode OFF : Returns to the original mode Intelligent : Displays not only vivid natural color with clearness Intelligent : Displays vivid natural color with clearness Order Tone will not be adjustable in MagicColor mode of Full and Intelligent Order Tone will not be adjustable in MagicColor mode of Full and Intelligent Gamma correction changes the luminance of the colors with intermediate luminance Gamma mode will be different according to monitor models. Some monitor will only		
Olor ontrol You can change the monitor color to your desired color. • Not Available alibration MagicTune extremely useful if you are one of those who wish to view images with their full details accurately reproduced - including web images and ones produced by a digital camera or scanner. MagicColor is a new technology that Samsung has exclusively developed to improve digital image and to display natural color more clearly without disturbing image quality. 1. OFF : Returns to the original mode. 2. DEMO : The screen before applying MagicColor appears on the right and the screen after applying MagicColor appears on the left. 3. Full : Displays not only vivid natural color with clearness. HagicColor • Depending on the monitor models Color Control, Sharpness, Contrast, Color Tone will not be adjustable in MagicColor mode of Full and Intelligent. Gamma correction changes the luminance of the colors with intermediate luminance. Tamma	Color Tone	Color Tone mode will be different according to monitor models.
alibration MagicTune extremely useful if you are one of those who wish to view images with their full details accurately reproduced - including web images and ones produced by a digital camera or scanner. MagicColor is a new technology that Samsung has exclusively developed to improve digital image and to display natural color more clearly without disturbing image quality. 1. OFF : Returns to the original mode. 2. DEMO : The screen before applying MagicColor appears on the right and the screen after applying MagicColor appears on the left. 3. Full : Displays not only vivid natural color but also more realistic natural skin color with clearness. HagicColor Depending on the monitor models Color Control, Sharpness, Contrast, Color Tone will not be adjustable in MagicColor mode of Full and Intelligent. Depending on the colors with intermediate luminance. Gamma mode will be different according to monitor models. Some monitor will only 	Color Control	You can change the monitor color to your desired color.
display natural color more clearly without disturbing image quality. 1. OFF : Returns to the original mode. 2. DEMO : The screen before applying MagicColor appears on the right and the screen after applying MagicColor appears on the left. 3. Full : Displays not only vivid natural color but also more realistic natural skin color with clearness. 4. Intelligent : Displays vivid natural color with clearness. 1. Intelligent : Displays vivid natural color with clearness. 1. OFF : Returns to the original mode. 2. DEMO : The screen before applying MagicColor appears on the right and the screen after applying MagicColor appears on the left. 3. Full : Displays not only vivid natural color but also more realistic natural skin color with clearness. 1. Intelligent : Displays vivid natural color with clearness. 1. Intelligent : Displays vivid natural color with clearness. 1. Depending on the monitor models Color Control, Sharpness, Contrast, Color Tone will not be adjustable in MagicColor mode of Full and Intelligent. 3. Gamma correction changes the luminance of the colors with intermediate luminance. 3. Gamma mode will be different according to monitor models. Some monitor will only	Calibratior	MagicTune extremely useful if you are one of those who wish to view images with their full details
Color Tone will not be adjustable in MagicColor mode of Full and Intelligent. Gamma correction changes the luminance of the colors with intermediate luminance. Gamma mode will be different according to monitor models. Some monitor will only	MagicColo	 OFF : Returns to the original mode. DEMO : The screen before applying MagicColor appears on the right and the screen after applying MagicColor appears on the left. Full : Displays not only vivid natural color but also more realistic natural skin color with clearness. Intelligent : Displays vivid natural color with clearness.
Gamma mode will be different according to monitor models. Some monitor will only		Color Tone will not be adjustable in MagicColor mode of Full and Intelligent.
Gamma mode will be different according to monitor models. Some monitor will only		Gamma correction changes the luminance of the colors with intermediate luminance.
	Gamma	Gamma mode will be different according to monitor models. Some monitor will only

This refers to the process that optimizes the color according to the user's needs and maintains the optimized color. MagicTune will be helpful for users wishing to view images including web images, as

well as pictures taken by a digital camera or scanner through Windows.

6-Color	 Saturation - To adjust the chroma. Hue - To adjust the color tone. Reset - To reset the monitor settings to the factory defaults. 	
		MagacTune"

Image Tab Definition

Adjusts the Fine , Coarse and Position values.

Sharpness
Position
Image Setup

Option Tab Definition

You can configure MagicTune using the following options.

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

Preferences	 Enable task tray menu . To access the MagicTune menus, click the icon on the [task tray menu]. The menus are not displayed if the [Enable System Tray] is deselected in [Options] ' [Basic Settings]. Select Language - The language chosen affects only the language of the OSD. 	
Source Select	AnalogDigital	
Color Weakness	Off - To canCustom - Pa	rocess that optimizes the color and maintains the optimized color. cel Partial Color Blindness Mode. rtial Color Blindness Test eset the monitor settings to the factory defaults.
PIP	When external A/V devices such as VCRs or DVDs are connected to the monitor, PIP allows you to watch video from those devices in a small window super-imposed on the PC Video signal. (Off / On)	
	PIP	Turn the PIP Screen on or off.
	Source	Select the input source for the PIP.
	Size	Change the Size of the PIP window.
	Position	Change the Position of the PIP window.

Support Tab Definition

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

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Help	5	Visit the MagicTune website or click to open the Help files (User Manual) if you need any help installing or running MagicTune. The User Manual opens within a basic browser window.		
Asset ID		You can use the server to control the Client monitor. (Server program should be installed to use this program as Client)		
	User Name	Shows the user name that is registered in PC.		
	User ID	Shows the user ID that is registered in PC.		
	Server IP	Write down the server IP .		
	Department	Write down the department.		
	Location	Write down the location.		
Version	Displays the version of	Displays the version of MagicTune.		

The MagicTune™ program is an additional program for monitor products. Some computing systems that install either an older or the latest video driver are not compatible with MagicTune™. Please visit the MagicTune™ Website for technical support for MagicTune™.

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Color Calibration

1. Color Calibration

Color Calibration guides you to get optimal color condition for your monitor.

Proceed following 5steps for getting optimal monitor color condition .

- 1. Control "Brightness control bar" for matching the brightness of control patch and the brightness of background pattern
- When you detect specific color tone on "Control patch", move the control cursor toward to the direction of the color tone referring to "Color reference Circle".
- => Adjustment is finished properly, you won't detect any color tone on Control patch.
- 3. When you finish adjustment for step1,Click "Next" button .
- 4. Repeat 1), 2), 3) procedures for remaining step2 ~ step5.
- 5. You can easily view the calibration effect through clicking "Preview " button!

How multiple users can use adjusted color values

Definition

When monitor is used by multiple users, color values which are adjusted via Color calibration for each users can be saved and used. Up to 5 users can use the saved color values.

- How to save adjusted color values: Press Next to make it change into Apply and then you can save adjusted color values. As many as 5 values can be saved.
- How to apply the saved color values: Press Multi User button on main screen to select and use one of the saved color values.

мярстуре

2. Preview



Press "Preview" button on the Color Calibration. The above picture will be shown.

^{1.} Press "View Calibrated" button to see the calibration effect which you adjusted.

2. Press "View Uncalibrated" button to see the original image.

The MagicTuneTM program is an additional program for monitor products. Some computing systems that install either an older or the latest video driver are not compatible with MagicTuneTM. Please visit the MagicTuneTM Website for technical support for MagicTuneTM.

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Uninstall

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

Perform the following steps remove MagicTune[™].

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

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

The MagicTuneTM program is an additional program for monitor products. Some computing systems that install either an older or the latest video driver are not compatible with MagicTuneTM. Please visit the MagicTuneTM Website for technical support for MagicTuneTM.

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Troubleshooting

 The current computing system is not compatible with MagicTune™.

 Please press OK and click on the "Shortcut to the MagicTune™ site" to view our home page for further reference.

 Image: An error may occur when your video/graphic card is not in the 'Available' list. (The latest or oldest video cards may not be compatible.)

 Image: Please visit our homepage to see the Troubleshooting section.

 Image: An error may occur if the card maker has modified the video card driver or the graphics chip even when the video card is in the list.

 Image: Please visit our homepage to see the Troubleshooting section.

 Image: Please visit our homepage to see the Troubleshooting section.

Check if your monitor is manufactured by Samsung. Products from other manufacturers may cause errors.



Only Samsung products are able to support this feature.

An error may occur even when your monitor is manufactured by Samsung but is out of date.

Check if your monitor is able to support MagicTune™.



θ

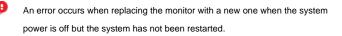
This feature is only supported by those monitors that are registered on our homepage. Check for the monitor before purchasing it as out-of-date models are not supported.

An error occurs when no information on EDID (Extended Display Identification Data) exists for the current monitor.

This happens when from your desktop, Start > Setup > Control Panel > System > Hardware > Device Manager > Monitor is selected, the current "Plug-and-play monitor" is removed and new hardware is searched for but the system couldn't find any "Plug-and-play monitor".



Please visit our homepage to see the Troubleshooting section.

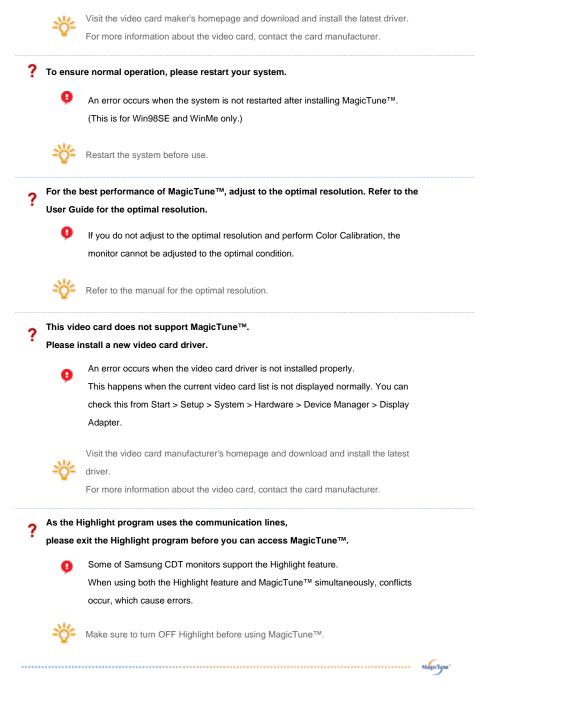




Please restart the system each time the monitor is replaced before using MagicTune™.



An error occurs when the video card driver is not installed properly. This happens when the current video card list is not displayed normally. You can check this via Start > Setup > System > Hardware > Device Manager > Display Adapter.



Troubleshooting

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

Symptom	Check List	Solutions
Check when	MagicTune [™] feature is	* To check whether your PC is available for
MagicTune™ does not function properly.	found only on PC (VGA) with Window OS that supports Plug and Play.	MagicTune™ feature, follow the steps below (When Windows™ is XP);
		Control Panel -> Performance and Maintenance -> System -> Hardware -> Device Manager -> Monitors -> After deleting Plug and Play monitor, find 'Plug and Play monitor' by searching new Hardware.
		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.

- Visit the MagicTune[™] website for technical support for MagicTune[™], FAQs (questions and answers) and software upgrades.
- Visit the MagicTune[™] website and download the installation software for MagicTune[™] MAC.

The MagicTune™ program is an additional program for monitor products. Some computing systems that install either an older or the latest video driver are not compatible with MagicTune™. Please visit the MagicTune™ Website for technical support for MagicTune™.

Specifications subject to change without notice. MagicTune™ is a trademark of SAMSUNG ELECTRONICS CO., Inc. Windows™ is a registered trademark of Microsoft Corp. Other trademarks are property of their respective holders.



Overview | Installation | Interface | Uninstall | Troubleshooting

Overview

What is MagicRotation?



Traditionally, computer displays allowed the user to view only in landscape mode. In today's information age, more users need to view documents, web pages, emails, etc. in there day to day life. These types of applications can be better viewed in portrait mode where the entire contents are available on the screen. This greatly improves the user's productivity allowing him the flexibility to switch between landscape and portrait modes.

The MagicRotation Software from Samsung Electronics, Inc. provides the user with a rotation feature (0, 90, 180, 270 orientation) that facilitates the optimum utilization of computer display screen, better viewing and improved user productivity.

Basic Function

MagicRotation will support Windows[™] 98 SE, Me, NT 4.0, 2000, XP Home and XP Professional.

* Windows[™] is registered trademark of Microsoft Corporation,Inc.

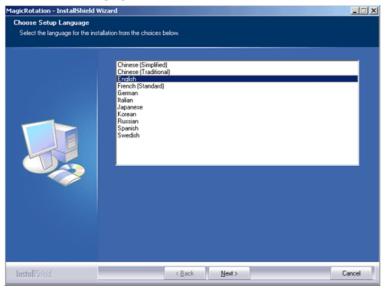
The specifications are subject to change without notice. MagicRotation is a trademark of SAMSUNG ELECTRONICS CO., LTD. All other product trademarks mentioned in this document may be registered trademarks of their respective companies. WindowsTM is registered trademark of Microsoft Corporation,Inc. MagicRotationHelp

Overview | Installation | Interface | Uninstall | Troubleshooting

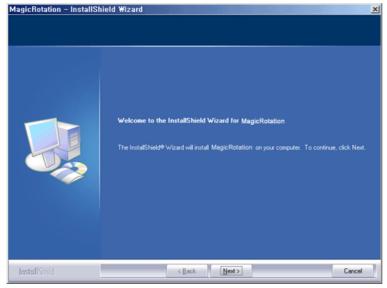
Installation

- 1. Insert the installation CD into the CD-ROM drive.
- 2. Click the MagicRotation installation file.

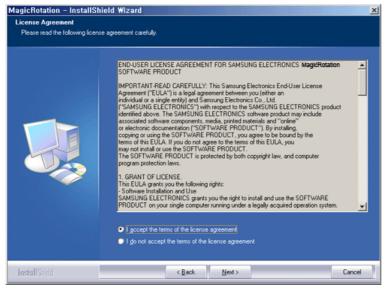
3. Select installation Language, Click "Next".



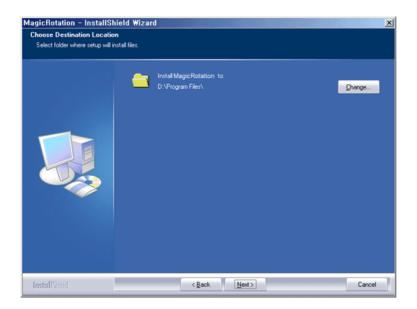
4. When the InstallShield Wizard window appears, click "Next."



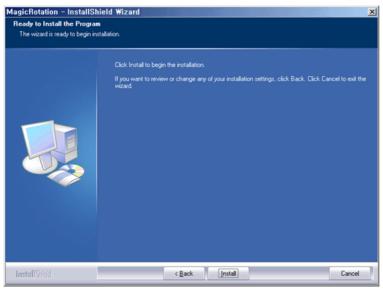
5. Select "I accept the terms of the license agreement" to accept the terms of use.



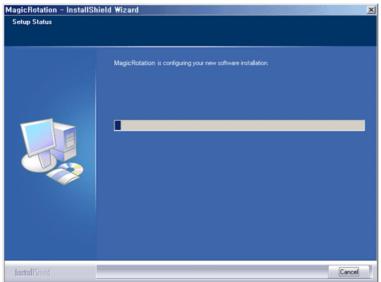
6. Choose a folder to install the MagicRotation program.



7. Click "Install."

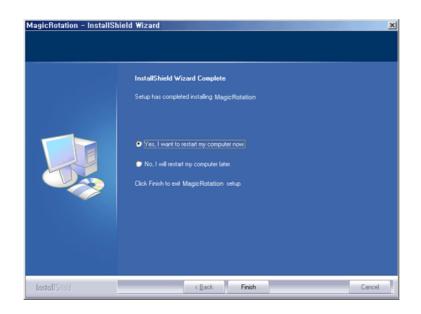


8. The "Setup Status" window appears.



9. Click "Finish."

Have to reboot the system in order for the MagicRotation to work properly.



10. When the installation is complete, the MagicRotation executable icon appears on your desktop.



Installation Problems

The installation of MagicRotation can be affected by the factors such as video card, motherboard and the network environment. See "Troubleshooting" if you have trouble during installation.

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 :

 - $\,\circ\,$ 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.
- 3. 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).
- If you are changing your Graphic Card it is recommended that you uninstall the 7. MagicRotation Software before doing so.

System Requirements

os

- Windows[™] 98 SE
- Windows[™] Me
- Windows™ NT 4.0
- Windows[™] 2000

- Windows[™] XP Home Edition
- Windows[™] XP Professional

Hardware

- 128MB Memory above(recommended)
- 25MB Free Hard disk space above

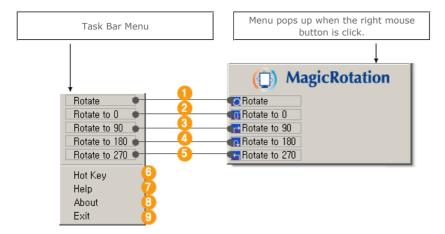
Service Packs

- 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.

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(D) MagicRotationHelp
Overview Installation Interface Uninstall Troubleshooting
 When Rotation is functioning, portion of MagicTune[™] program may not operate normally. AutoRotation : The screens display will automatically rotate when the monitor is rotated.
 To execute Auto Rotation, it should be done as below. Please install both MagicRotation and MagicTune™ 3.6 programs in your computer.

- Launch MagicTune 3.6
- Option → Preference → Click the small box in the enable task tray menu.
- MagicRotation[™] program can not be provided as Simple Stand does not support Pivot function.
- The permitted angle of rotation of the monitor is determined by the model of the monitor.

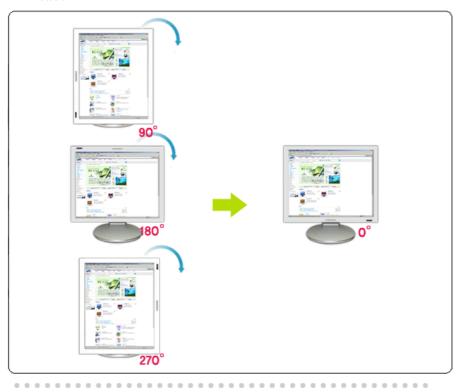
Interface



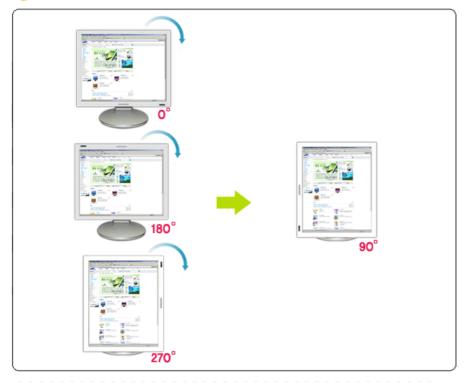




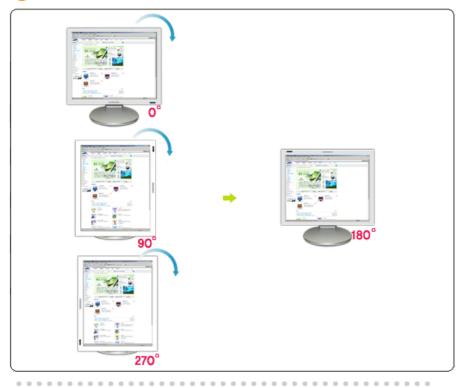
Rotate to 0 : Display will get rotated to 0 degree from the current angle of 2 Rotation.



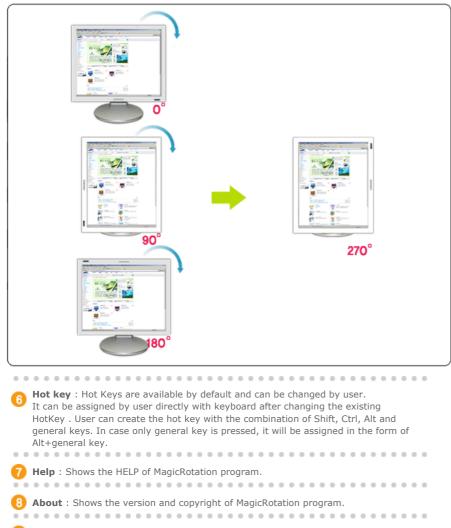
8 Rotate to 90 : Display will be rotated 90 degrees from the current angle.



4 Rotate to 180 : Display will be rotated 180 degrees from the current angle.



5 Rotate to 270 : Display will be rotated 270 degrees from the current angle.



Exit : Exits from MagicRotation program.

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Overview | Installation | Interface | Uninstall | Troubleshooting

🔿 Uninstall

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

Perform the following steps to remove MagicRotation.

- 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/Remove Programs" icon in Control Panel.
- 3. In the "Add/Remove Programs" screen, scroll down to find "MagicRotation" 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.
- 7. After uninstall restart the system to complete the uninstallation.

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

* Windows[™] is registered trademark of Microsoft Corporation,Inc.



O Troubleshooting

Before You Call Technical Support

 MagicRotation Software works with the installed "Display Driver" supplied by your Graphic Card Vendor to provide screen rotation capabilities. If the installed "Display Driver" is working incorrectly or has bugs in it, then these bugs would still exist even after MagicRotation Software is installed.

Any incorrect/random behaviour resulting due to problems in the installed "Display Driver" are not due to MagicRotation Software.

In order to verify if a problem exists in the installed "Display Driver" , you can perform the following diagnostic steps :

- 1. Check if the problem is occurring in both 0 orientation (Landscape mode) and 90 orientation (Portrait mode).
- 2. Check if the problem occurs with different color depths (8/16/32 bits per pixel) and different resolution modes (800×600 , 1024×768).

3. Check if the problem occurs without installing MagicRotation Software.

If the problem is repeating in any/all of the following scenarios then it may be the problem with your installed "Display Driver" :

In order to correct the problem you need to perform the following steps :

- 1. Uninstall MagicRotation Software.
- Obtain the latest "Display Driver" from your Graphic Card Vendor. The latest "Display Driver" from (ATI, NVIDIA, MATROX, INTEL, etc.) are easily available for download from their respective websites.
- 3. Install the latest "Display Driver"
- 4. Install MagicRotation Software. In most of the cases this should correct the problem.

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

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

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Check List Q & A Self-Test Feature Check
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Before calling for service, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

Symptom	Check List	Solutions
No images on the screen. I cannot turn	Is the power cord connected properly?	Check the power cord connection and supply.
on the monitor.	Can you see "Check Signal Cable" on the screen?	(When connecting D-sub cable) Check the signal cable connection. (When connecting 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)
	Can you see "Not Optimum Mode", "Recommended mode : 1600 X 1200 60Hz" on the screen?	Note: If the initial screen (the login screen) does not appear, contact a service center or your dealer.
		You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can properly handle. Adjust the maximum resolution and frequency that the monitor can handle properly.
		If the display exceeds UXGA or 75Hz (In case of UXGA, 60Hz), a "Not Optimum Mode", "Recommended mode : 1600 X 1200 60Hz" message is displayed. If the display exceeds 85Hz, the display will work properly but the "Not Optimum Mode", "Recommended mode : 1600 X 1200 60Hz" 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 menitor is in DowerSover mode		
	the screen. Is the power indicator on the monitor blinking	The monitor is in PowerSaver mode. Press any key on the keyboard to activate the monitor and restore the image on the screen.		
	at 1 second intervals?	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.		
	Is the monitor 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.		
I cannot see the On Screen Display.	Have you locked the On Screen Display (OSD) Menu to prevent changes?	Unlock the OSD by pressing the MENU button for at least 5 seconds.		
The screen shows strange colors or just black and white.	Is the screen displaying only one color as if looking at the screen through a cellophane paper?	Check the signal cable connection. Make sure the video card is fully inserted in it's slot.		
	Have the screen colors become strange after running a program or due to a crash between applications?	Reboot the computer.		
	Has the video card been set properly?	Set the video card by referring to the video card manual.		
The screen suddenly has become unbalanced.	Have you changed the video card or the driver?	Adjust screen image position and size using the OSD.		
	Have you adjusted the resolution or frequency on the monitor?	Adjust the resolution and frequency of the video card. (Refer to the Preset Timing Modes).		
	The screen can be unbalanced due to the cycle of the video card signals. Readjust Position by referring to the OSD.			
The screen is out of focus or OSD cannot be adjusted.	Have you adjusted the resolution or frequency on the monitor?	Adjust the resolution and frequency of the video card. (Refer to the Preset Timing Modes).		
Power Indicator 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 the Windows colors been set properly?	Windows ME/2000/XP: Set the colors properly at the Control Panel \rightarrow Display \rightarrow Settings .		
have changed after changing the video card.	Has the video card been set properly?	Set the video card by referring to the video card manual.		
There is a message that reads	Have you installed the monitor driver?	Install the monitor driver according to the Driver Installation Instructions.		
"Unrecognized monitor, Plug & Play (VESA DDC) monitor found".	See the video card manual to see if the Plug & Play (VESA	Install the monitor driver according to the Driver Installation Instructions.		
1				

	DDC) function can be supported.	
Check when MagicTune™ does not function properly.	MagicTune [™] feature is found only on PC (VGA) with Window OS that supports Plug and Play.	 * To check whether your PC is available for MagicTune[™] feature, follow the steps below (When Windows is XP); Control Panel -> Performance and Maintenance - > System -> Hardware -> Device Manager -> Monitors -> After deleting Plug and Play monitor, find 'Plug and Play monitor' by searching new Hardware. 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.



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

- 0 Check the following items if there is trouble with the monitor.
 - 1. Check if the power cord and the video cables are properly connected to the computer.
 - 2. Check if the computer beeps more than 3 times when booting.
 - (If it does, request an after-service for the main board of the computer.)
 - 3. If you installed a new video card or if you assembled the PC, check if the installed the adapter (video) driver and the monitor driver.
 - 4. Check if the scanning ratio of the video screen is set at 56Hz ~ 75Hz.
 - (Do not exceed 60Hz when using the maximum resolution.)5. If you have problems in installing the adapter (video) driver, boot the computer in Safe Mode, remove the Display Adapter at the "Control Panel→System→Device Administrator" and then reboot the computer to reinstall the adapter (video) driver.



If problems repeatedly occur, contact an authorized service center.

Check List Q & A Self-Test Feature Check

Q & A

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

Do not allow any water to go inside the monitor. Check List Q & A Self-Test Feature Check Self-Test Feature Check

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

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

1. Self-Test Feature Check

- Turn off both your computer and the monitor. 1.
- Unplug the video cable from the back of the computer. 2.
- 3. Turn on the monitor.

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



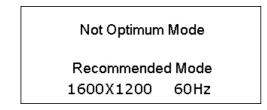
This box appears during normal operation if the video cable becomes disconnected or damaged.

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.

2. 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.



3. Environment

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

- 1. If there are any sub woofer speakers near the monitor, unplug and relocate the woofer to another room.
- 2. Remove all electronic devices such as radios, fans, clocks and telephones that are within 3 feet (one meter) of the monitor.

4. 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 : 1600 X 1200 60Hz" 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.



PowerSaver Preset Timing Modes General

٥ General

General		
Model Name	SyncMaster 214T	
LCD Panel		
Size	21.3" Diagonal (54 cm)	
Display area	432 mm (H) x 324 mm (V)	
Pixel Pitch	0.270 mm (H) x 0.270 mm (V)	
Туре	a-si TFT/SPVA	
Synchronization		
Horizontal	30 ~ 81 kHz	
Vertical	56 ~ 75 Hz	
Display Color		
16.7M Colors		
Resolution		
Optimum resolution	1600 x 1200 @ 60 Hz	
Maximum resolution	1600 x 1200 @ 60 Hz (Analog) 1600 x 1200 @ 60 Hz (Digital)	
Input Signal, Terminated		
Analog RGB, DVI Compliant Digital RGB, CVBS, S-Video Composite Sync,SOG, 0.7Vp-p Positive at 75Ω Separate H/V sync,TTL level positive or negative		
Video		
Video format	CVBS , S-Video	
Maximum Pixel Clock		
162 MHz (Analog/Digital)		
Power Supply		
AC 100 ~ 240 VAC(±10%), 60/50 Hz ± 3 Hz		
Signal Cable		

15pin-to-15pin D-sub cable, detachable, 1.8 m
DVI-D to DVI-D connector, detachable, 2.0m

Power Consumption

Less than 63W(Analog/Digital)

Dimensions (WxDxH)/ Weight

469.0 x 228.5 x 466.2mm (18.5 x 9.0 x 18.4 inch) / 8.8 kg (state of stand installed)

VESA Mounting Interface

100 mm x 100 mm (for use with Specialty(Arm) Mounting hardware.)

Environmental considerations

Operating	Temperature: 32°F ~ 122°F (0°C ~ 50°C) Humidity: 20% ~ 90%, non-condensing
Storage	Temperature: -4°F ~ 149°F (-20°C ~ 65°C) Humidity: 5% ~ 90%, non-condensing

Plug and Play Capability

This monitor can be installed on any Plug & Play compatible system. Interaction of the monitor and computer systems will provide the best operating conditions and monitor settings. In most cases, monitor installation will proceed automatically, unless the user wishes to select alternate settings.

Dot Acceptable

TFT LCD panel manufactured by using advanced semiconductor technology with precision of 1ppm (one millionth) above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without uneasiness.

• For example, the number of TFT LCD sub pixels that is contained in this product are 5,760,000

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

General PowerSaver Preset

Preset Timing Modes

PowerSaver

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

State	Normal Operation	Power saving mode EPA/ENERGY 2000	Power off (Power S/W off)
Power Indicator	Green	Green, Blinking	Black
Power Consumption	Analog/Digital Less than 63W	Analog/Digital Less than 2 W (Off-mode)	Less than 0 W



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

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

Preset Timing Modes

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

Table 1. Preset Timing Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
IBM, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/-, +/-
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
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	78.700	+/+
VESA, 1280 x 1024	63.981	60.020	108.00	+/+
VESA, 1280 x 1024	79.976	75.025	135.00	+/+
VESA, 1600 x 1200	75.000	60.000	162.00	+/+

Horizontal Frequency

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



Vertical Frequency

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



Contact SAMSUNG WORLD-WIDE | Terms | For Better Display | Authority | Image Retention Free | Correct Disposal |

Contact SAMSUNG WORLD-WIDE



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

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

Latin America		
ARGENTINE	0800-333-3733	http://www.samsung.com/ar
BRAZIL	0800-124-421	http://www.samsung.com/br
CHILE	800-726-7864 (SAMSUNG)	http://www.samsung.com/cl
COSTA RICA	0-800-507-7267	http://www.samsung.com/latin
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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 1600 X 1200, this means the screen is composed of 1600 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 highquality 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.

OVD

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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For Better Display

 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: 1600 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 5,760,000.
- 3. When you clean the monitor and the panel outside, please apply the recommended small amount of cleaner by using soft and dry cloth and polish it. Let LCD area not to be forced but to be scrubbed out softly. If excessive force is applied, you can have a stain on it.
- 4. If you are not satisfied with the quality of picture, you can get better quality of picture by executing "Auto adjustment" function in display screen that is appeared as window termination button is pressed. If there's still noise after automatic adjustment, use Fine/Coarse adjustment function.
- If you view a fixed screen for an extended period of time, residual image or blurriness may appear.

Change the mode to energy save or set a screensaver to moving picture when you need to be away from the monitor for an extended period of time.

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Class B

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



MÉXICO

IMPORTADO POR:

SAMSUNG ELECTRONICS MÉXICO. S.A. de C.V. Vía Lopez Portillo No. 6, Col. San Fco. Chilpan Tultitlán, Estado de México, C.P. 54940

Tel: 01-55-5747-5100 / 01-800-726-7864

EXPORTADO POR: Samsung Electronics CO.,LTD. 416, Mae tan-3dong, Yeongtong - gu, Suwon City, Gyeonggi-do Korea LCD Monitors and TVs may have image retention when switching from one image to another especially after displaying a stationary image for a long time. This guide is to demonstrate correct usage of LCD products in order to protect them from Image retention.

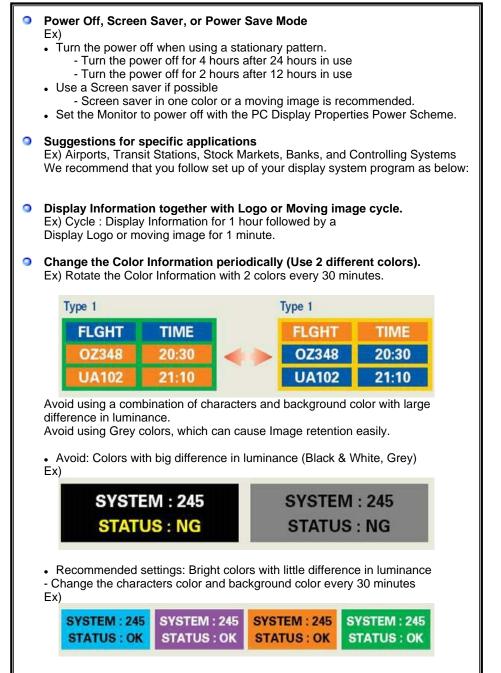
Warranty

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.

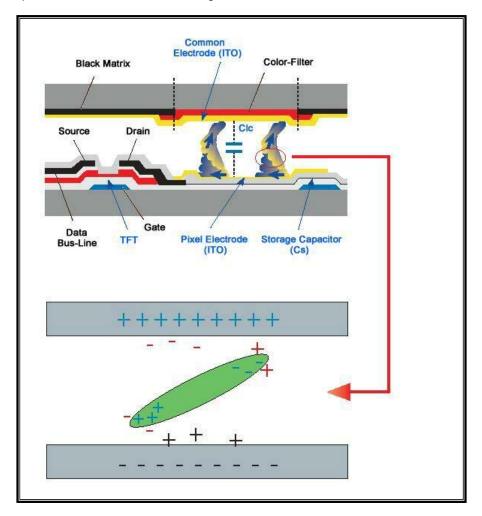


The best way to protect your monitor from Image retention is to set your PC or System to operate a Screen Saver program when you are not using it.

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

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

other commercial wastes for disposal.
