SAMSUNG ELECTRONICS

SyncMaster 795MB+

SyncMaster

Adobe Reader

Manual

Regulatory

MagicTune™   MagicBright²   HIGHLIGHT zoneIII   Natural Color   MagicGreen

Install drivers

▶ ▶ Windows *Me*   Windows 98

▶ ▶ Windows 2000   Windows xp

Install programs

▶ ▶ Natural Color

▶ ▶ MagicTune™ MagicTune™

▶ ▶ Highlight zoneIII

Notational | Power | Installation | Clean | Others |

⬤ **Notational**

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

⚠ Warning / Caution

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

⚠ Notational Conventions

🚫	Prohibited	❗	Important to read and understand at all times
🔧	Do not disassemble	✋	Disconnect the plug from the outlet
✋	Do not touch	⏚	Grounding to prevent an electric shock

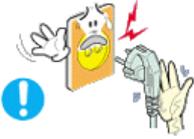Notational | **Power** | Installation | Clean | Others |

⬤ **Power**

⚠   When not used for extended periods of time, set your computer to a screen saver.

● If the same image is present for long periods of time, Phosphor Burnt can be occured, or the screen may be blurred.

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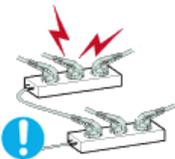
Do not connect too many extension cords or plugs to an outlet.

- This may cause fire.

Notational | Power | Installation | Clean | Others |

Installation

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 drop the monitor when moving it.

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

Install the monitor base in a showcase or shelf so that the end of the base does not protrude from the showcase or shelf.

- Dropping the product may cause damage to the product or personal injury.

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

- Place the product on an even, stable surface, as the product may fall and cause harm to someone walking by, specifically children.
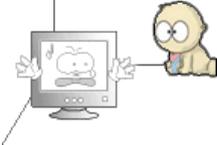
Do not place the product on the floor.

- Someone, specifically children could trip over it.

Keep any flammable objects such as candles, insecticides or cigarettes away from the product.

- Otherwise, this may cause a fire.

Keep any heating devices away from the power cable.

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

Do not install the product in places with poor ventilation, for instance, a bookshelf, closet, etc.

- Any increase in internal temperature may cause fire.

Set down the monitor carefully.
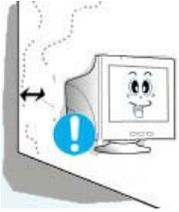
- The monitor could be damaged or broken.

Do not place the monitor face down.

- The CDT surface may be damaged.

Do not use the monitor without the monitor stand.

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

When installing the product, make sure to keep it away from the wall (more than 10cm/4inch) for ventilation purposes.

- Poor ventilation may cause an increase in the internal temperature of the product, resulting in a shortened component life and degraded performance.

Clean

When cleaning the monitor case or the surface of the CDT, wipe with a slightly moistened, soft fabric.
Do not clean Flat monitor with water. Use a water-diluted mild detergent.

(Some detergents contain significant amounts of alcohol-based solvents, which can damage (color change) or crack the monitor case. The antiglare/anti-static surface coating on the CDT may also be affected.)

Dilute the detergent (1:10 ratio) with water before using.

Do not spray water or detergent directly on the monitor.

Use the recommended detergent with a smooth cloth.

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

> **Caution:** Use a recommended detergent only, as other surfactants containing large amounts of alcohol, solvent or other strong substances, can discolor or crack the monitor or damage the coated CDT.

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.

Others

Do not remove cover(or back).

- This may cause an electric shock or fire.
- Refer servicing to qualified service personnel.

If your monitor does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service.

- This may cause an electric shock or fire.

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 .

Do not place any heavy objects on the monitor.

- This may cause an electric shock or fire.

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

- This may cause an explosion or fire.

Never insert anything metallic into the monitor openings.

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

Keep the monitor away from any magnetic substances.

- This may cause discoloring or distortion of the image.

○ **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.

Unpacking | Front | Rear | Bottom |

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

⬤ **Unpacking**

🔵 **Monitor and Stand**

(Some models include a stand attached.)

🔵 **Manual**

Quick Setup Guide

Warranty Card
(Not available in all locations)

User's Guide,
Monitor Driver,
Natural Color software,
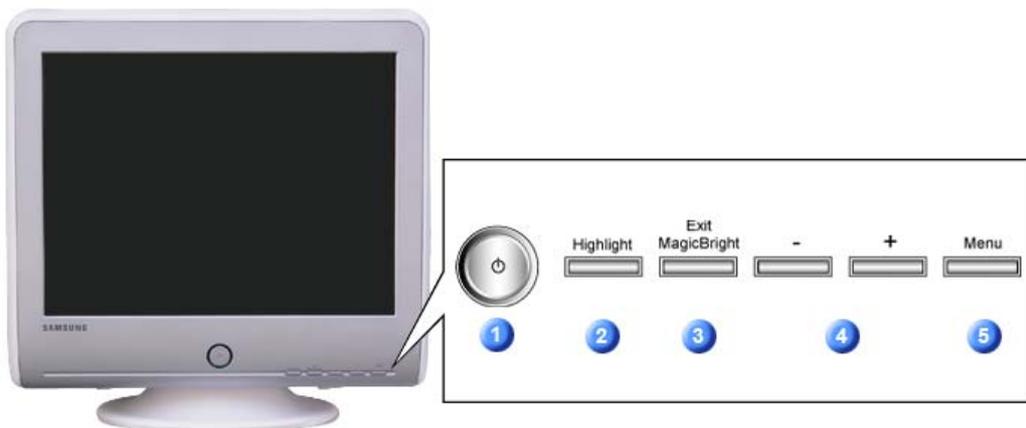**MagicTune™ software,**
Highlight Zone III software

🔵 **Cable**

Power Cord

○ **Stand**

Stand

○ **Front**

①	**Power button/ Power indicator**	Use this button to turn the monitor on and off. This light glows green during normal operation, and blinks green once as the monitor saves your adjustments.
②	**Highlight**	The Highlight Zone ensures clear images on TVs, video conferencing systems or photos by emphasizing a certain area on the screen.
③	**Exit / MagicBright**	Use this button to Exit the active menu or the OSD. / Use this button to exit or conrtol the MagicBright.
④	**Adjust buttons [- / +]**	These buttons allow you to highlight and adjust items in the menu.
⑤	**Menu**	Use this button to open the OSD and activate a highlighted menu item.

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

● **Rear**

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

| | **Power port** | Connect the power cord for your monitor to the power port on the back of the monitor. |
| 2 | **Signal Cable** | Connect the signal cable to the video port on your computer, video board, video card, or graphics card. |

See Connecting the Monitor for further information regarding cable connections.

● **Bottom**

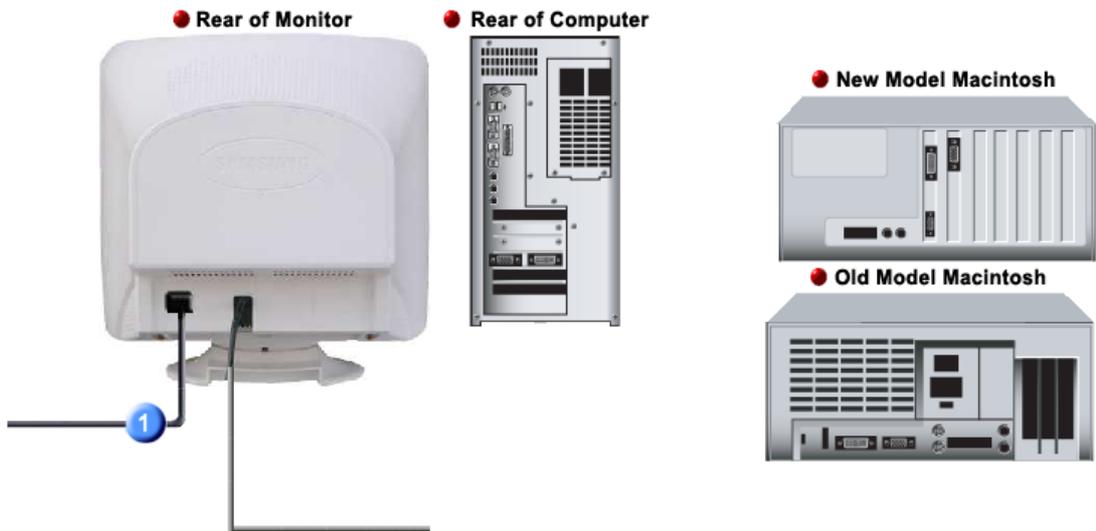|		
①	**Signal Cable**	Connect the signal cable to the video port on your computer, video board, video card, or graphics card.
②	**Power port**	Connect the power cord for your monitor to the power port on the back of the monitor.
③	**Tilt/Swivel Base**	You can separate the base from the monitor.

Connecting the Monitor | Base Installation | Installing the Monitor Driver (Automatic) | Installing the Monitor Driver (Manual) | Natural Color

● Rear of Monitor   ● Rear of Computer

● New Model Macintosh

● Old Model Macintosh

1.	Connect the power cord for your monitor to the power port on the back of the monitor. Plug the power cord for the monitor into a nearby outlet.
2-1.	Connecting to a computer Connect the signal cable to the 15-pin, D-sub connector on the back of your monitor.
2-2.	Connecting to a new Macintosh Connect the monitor to the Macintosh computer using the D-SUB connection cable.
2-3.	Connecting to an old Macintosh Connect your monitor to the Macintosh using the adapter for Macintosh (sold separately).
3.	Turn on your computer and monitor. If your monitor displays an image, installation is complete.

Connecting the Monitor | Base Installation | Installing the Monitor Driver (Automatic) | Installing the Monitor Driver (Manual) | Natural Color

Tilt/Swivel Base | Attaching and Removing the Base
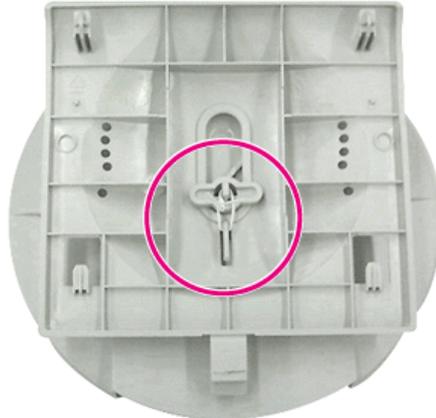
🔵 **Tilt/Swivel Base**

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

The base is detachable.

🔵 **Attaching and Removing the Base**

If your monitor was supplied with the base detached, attach the base as follows.

Remove the twist-tie before attaching the base to the monitor.

Attaching the Base

1. Place the monitor upside-down on a flat work surface.
2. Align the tabs on the base with the corresponding slots on the bottom of the monitor.
3. Press the base onto the monitor until the tabs are fully engaged in the slots.
4. Push the base toward the front of the monitor until the release latch clicks into the locked position.
   * Do not bend the snap.

Removing the Base

5. Squeeze and pull up on the release latch on the base.
6. Push the base toward the back of the monitor and lift up to remove the base.

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

| Connecting the Monitor	Base Installation	Installing the Monitor Driver (Automatic)	Installing the Monitor Driver (Manual)	Natural Color

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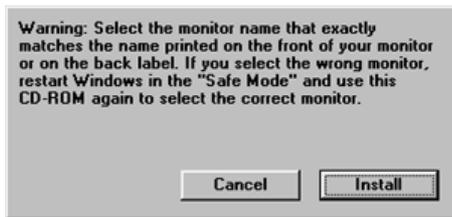
- Internet web site :   http://www.samsung.com/ (Worldwide)
                          http://www.samsung.com/monitor (U.S.A)
                          http://www.sec.co.kr/monitor (Korea)
                          http://www.samsungmonitor.com.cn/ (China)

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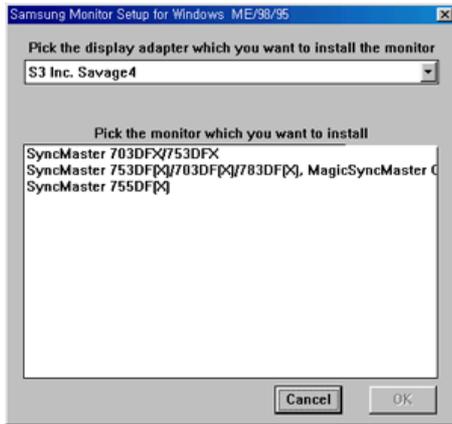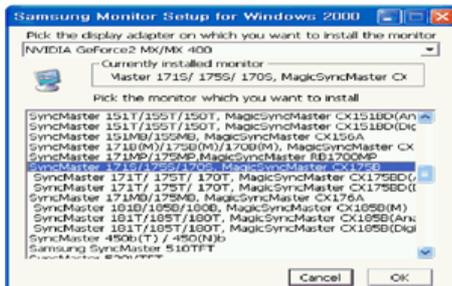
4. Click the **"Install"** button in the **"Warning"** window.

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.

> 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/.

5. Monitor driver installation is completed.

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

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

⬤ **Microsoft® Windows® XP Operating System**

1. Insert CD into the CD-ROM driver.
2. Click "**Start**" —> "**Control Panel**" then click the "**Appearance and Themes**" icon.
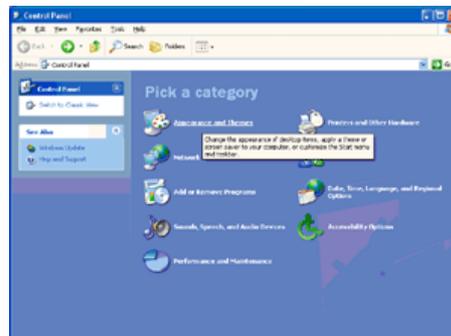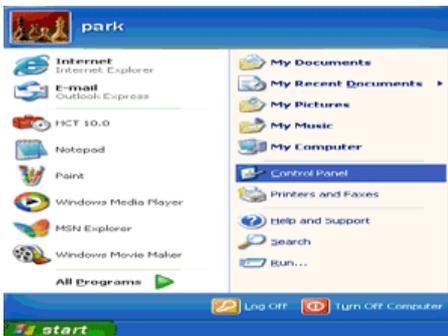
3. Click "**Display**" icon and choose the "**Settings**" tab then click "**Advanced..**".
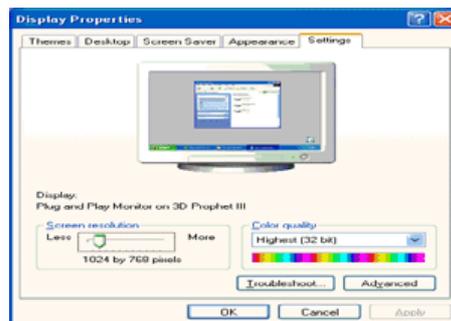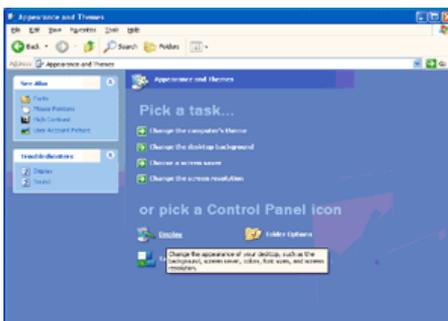
4. Click the "**Properties**" button on the "**Monitor**" tab and select "**Driver**" tab.
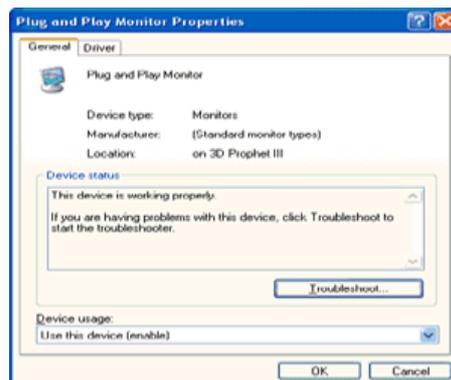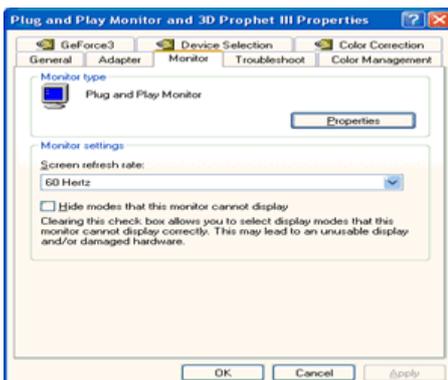
5. Click "**Update Driver..**" and select "**Install from a list or..**" then click "**Next**" button.
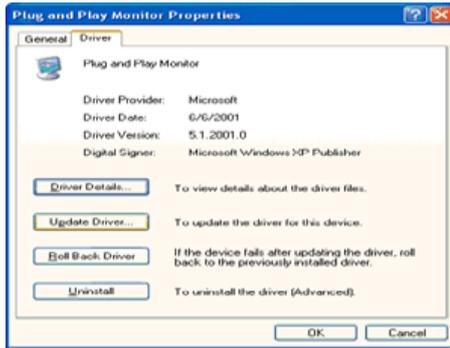
6. Select "**Don't search ,I will..**" then click "**Next**" and then click "**Have disk**".
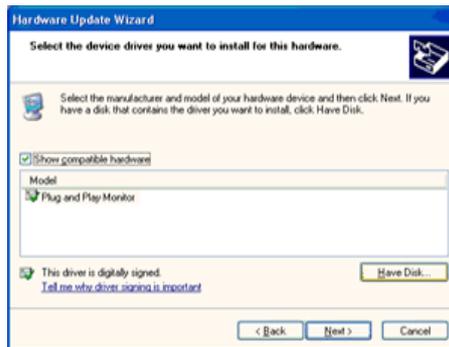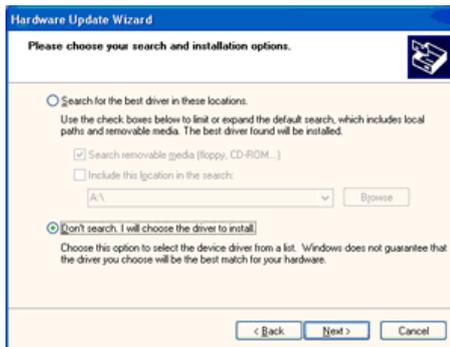
7. Click the "**Browse**" button then choose A:(D:\Driver) and choose your monitor model in the model list and click the "**Next**" button.
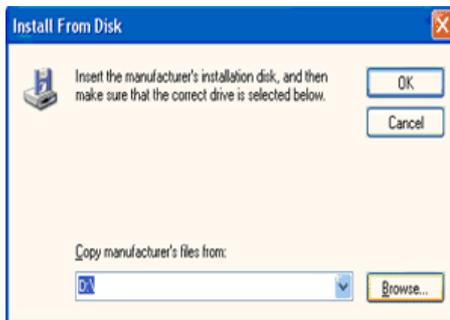
8. If you can see following message window, then click the "**Continue Anyway**" button. Then click "**OK**" button.

This monitor driver is under 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**

1. Click "**Start**" , "**Setting**" , "**Control Panel**".
2. 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**.
3. Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then click **OK**.
4. Click **Apply** button if you see the screen working normally after clicking **Test**. If the screen is not normal, change to a different mode (lower mode of resolution, colors or frequency).

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

○ **Linux Operating System**

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

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

| Connecting the Monitor | Base Installation | Installing the Monitor Driver (Automatic) | Installing the Monitor Driver (Manual) | Natural Color |

● **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.

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SAMSUNG DIGITall
everyone's invited™

■ Safety Instructions   ■ Introduction   ■ Setup   ■ **Adjusting Your Monitor**   ■ Troubleshooting   ■ Specifications   ■ Information

User Control Buttons | Direct-Access Features | OSD Functions | *MagicTune* MagicTune™ | Highlight zoneIII |
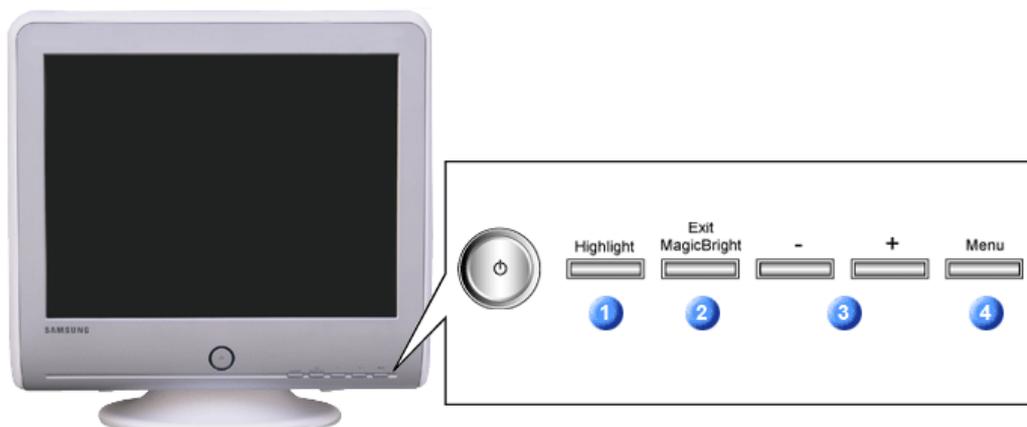
1. The Highlight Zone ensures clear images on TVs, video conferencing systems or photos by emphasizing a certain area on the screen.

2. Use this button to Exit the active menu or the OSD.
   Use this button to exit or conrtol the MagicBright.

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

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

User Control Buttons | **Direct-Access Features** | OSD Functions | *MagicTune* MagicTune™ | Highlight zoneIII |

◉ **Brightness**

①

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

◉ **Contrast**

①

Menu	Description
◖	When OSD is not on the screen, push the button to adjust Contrast.

◉ **MagicBright2™**
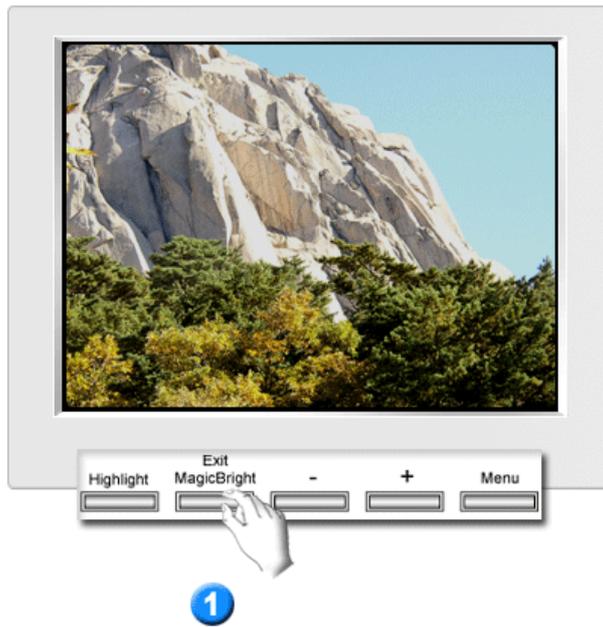
Menu	Description
MagicBright2™	Then push the MagicBright2™ button again to circle through available preconfigured modes.

⊙ **Highlight III**

Menu	Description
Highlight III	The Highlight Zone ensures the clear and sharp display of animated multimedia or photo images by enhancing the brightness of a certain area on the screen.

🖼	☼	◑	(‖)	⊟	⊗	↻				
🎨	▮K	🎨	🎨	🎨	sRGB					
⬚	⬚	⬚	↔	↕	)(	)|	⊔	⊓	⬭	
▦	▦	▦	▦	▦	▦	⊞	◑	△		
ⓘ										

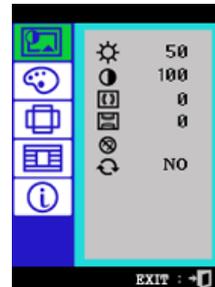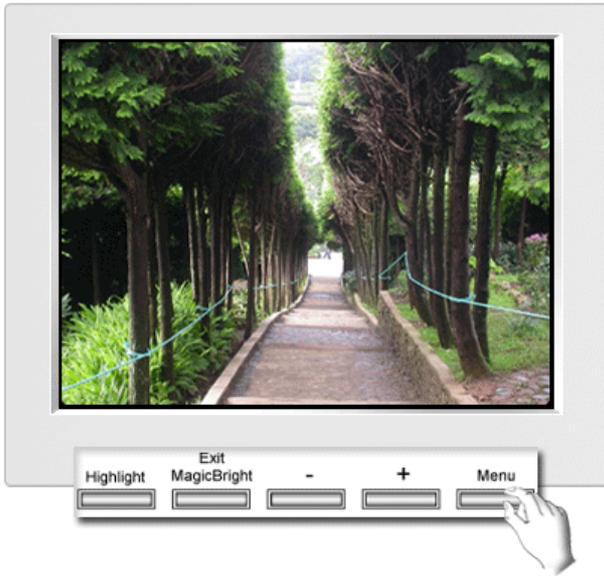| Menu	Description	Play/Stop
☼	You can use the on-screen menus to change the brightness according to personal preference. **Direct Access Feature** : When OSD is not on the screen, push the button to adjust brightness.	▶ ⏹
◑	You can use the on-screen menus to change the contrast according to personal preference.	▶ ⏹
(‖)	A "Moiré" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the horizontal moire adjustments.	▶ ⏹
⊟	A "Moirë" pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the vertical moire adjustments.	▶ ⏹
⊗	The Degauss feature will remove color impurities caused by magnetic fields.	▶ ⏹
↻	Use the recall feature to reset these monitor settings to their original levels: Position, Size, Pincushion, Trapezoid, Parallelogram, Pinbalance, Rotation, H-Moire,and V-Moire. **Note:** If you have selected "Yes", all settings listed above will be reset. All other settings will remain the same.	▶ ⏹

Menu	Description	Play/Stop
▮K	Color temperature is a measure of the 'warmth' of the image colors. (6500K / 9300K)	▶ ■
🎨 (red)	Use to adjust the monitor color setting.(Red)	▶ ■
🎨 (green)	Use to adjust the monitor color setting.(Green)	▶ ■
🎨 (blue)	Use to adjust the monitor color setting.(Blue)	▶ ■
sRGB	When you adjust the Brightness and Contrast after sRGB mode is selected, sRGB mode exits.	▶ ■
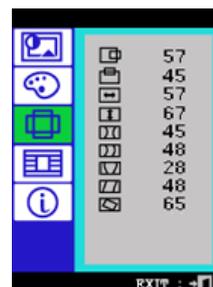
Menu	Description	Play/Stop
⊡	Follow these instructions to change the horizontal position of the monitor's entire display.	▶ ⏹
⊟	Follow these instructions to change the vetical position of the monitor's entire display.	▶ ⏹
↔	Follow these instructions to change the horizontal size of the monitor's entire display.	▶ ⏹
↕	Follow these instructions to change the vertical size of the monitor's entire display.	▶ ⏹
)(	Adjust the pincushion setting when the sides of the display are bowed in or bowed out.	▶ ⏹
))	Adjust the pinbalance setting when the sides of the display are bowed towards the left or right.	▶ ⏹
▽	Adjust the trapezoid setting when the top or bottom of the display is too large or small.	▶ ⏹
▱	Adjust the parallelogram setting when the display is leaning left or right.	▶ ⏹
▱	Adjust the rotation setting when the entire display is tilted left or right.	▶ ⏹

⬆UP
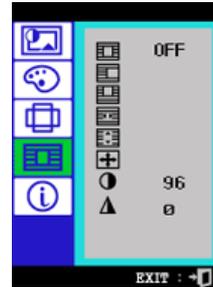
Menu	Description	Play/Stop
⊟	Use to turn the Highlight Zone features on or off. Note: When "OFF" is selected, the user cannot choose any other Highlight Zone features.	▶ ⏹
⊟	This function is to move the Highlight Zone horizontally.	▶ ⏹
⊞	This function is to move the Highlight Zone vertically.	▶ ⏹
⬌	This function is to adjust the horizontal size of the Highlight Zone.	▶ ⏹
⬍	This function is to adjust the vertical size of the Highlight Zone.	▶ ⏹
⊞	This function is to execute the Highlight Zone.	▶ ⏹
◑	This function is to use the contrast of the Highlight Zone.	▶ ⏹
Δ	This function is to adjust the sharpness of the Highlight Zone.	▶ ⏹
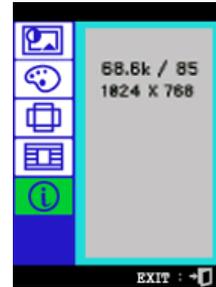
You can see the frequency (user control mode) used by the user, the polarity of the operational signals, the default frequency (default mode) set when you buy the monitor and the resolution level.
Note: These screens do not allow any changes to the settings, they are for information only.

MagicTune™ HELP

Overview | Installation | OSD Mode | Uninstall | Troubleshooting

▣ Overview

◻ What is MagicTune™?

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

In most cases even simple adjustments to Brightness, or Contrast require navigation of the multi-level, on-screen display (OSD) menus that are not easy to understand. Furthermore, there is no feedback to assist in correctly setting the controls of the monitor. MagicTune is a software utility that guides you through the tuning process with easy to understand instructions and back ground patterns designed for each monitor control. 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.

 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.

Specifications subject to change without notice.
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Other trademarks are property of their respective holders.

MagicTune™ HELP

Installation

1. Insert the installation CD into the CD-ROM drive.

2. Click the MagicTune™ installation file.

3. Select installation Language, Click "Next".
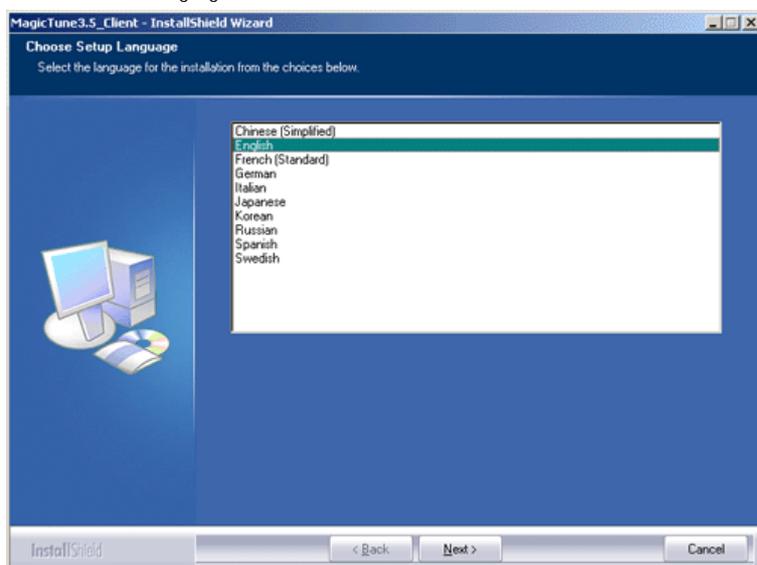
4. When the InstallationShield Wizard window appears, click "Next."
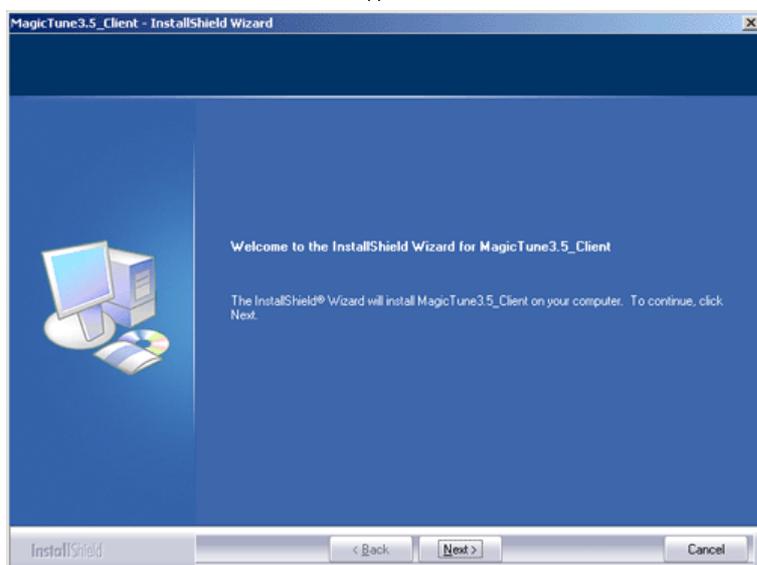
5. Select "I agree to the terms of the license agreement" to accept the terms of use.
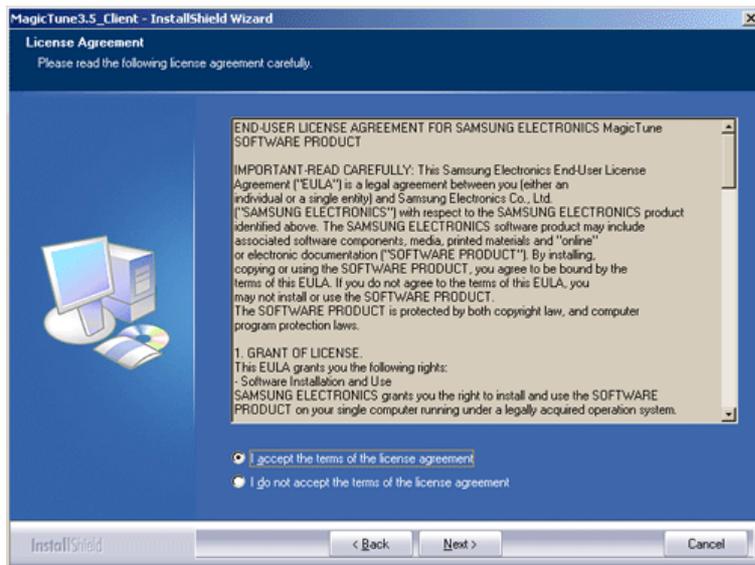
6. Choose a folder to install the MagicTune program.
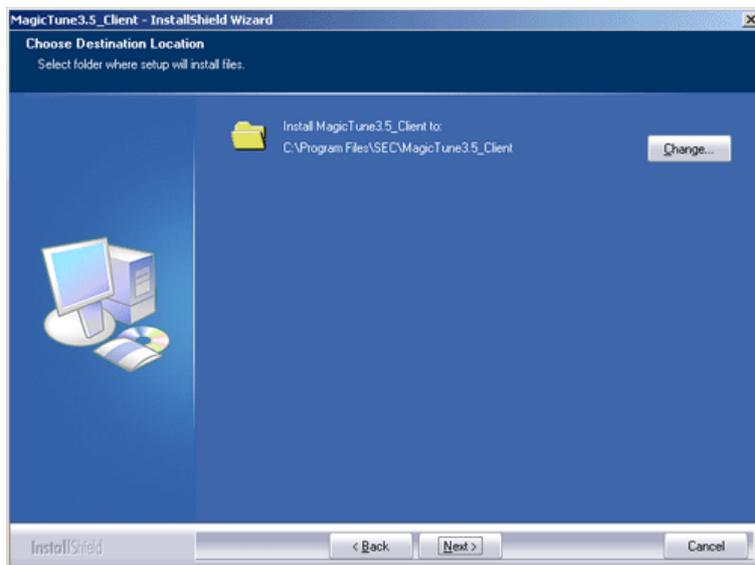
7. Click "Install."
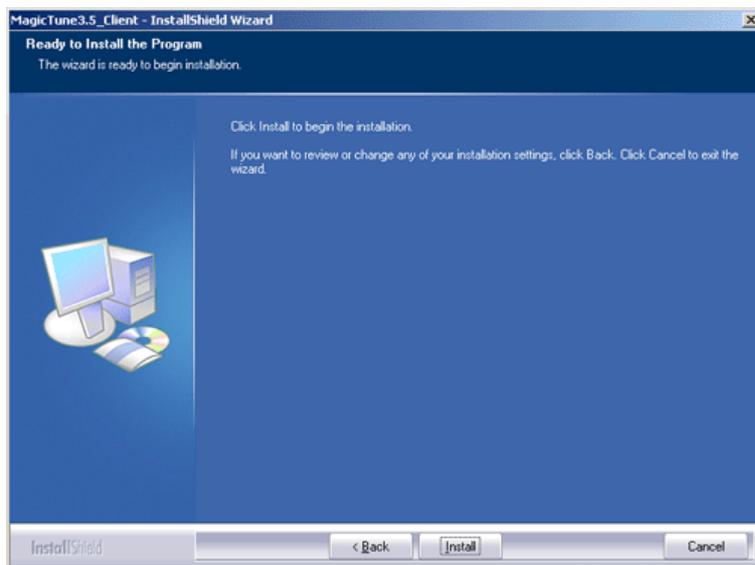
8. The "Installation Status" window appears.
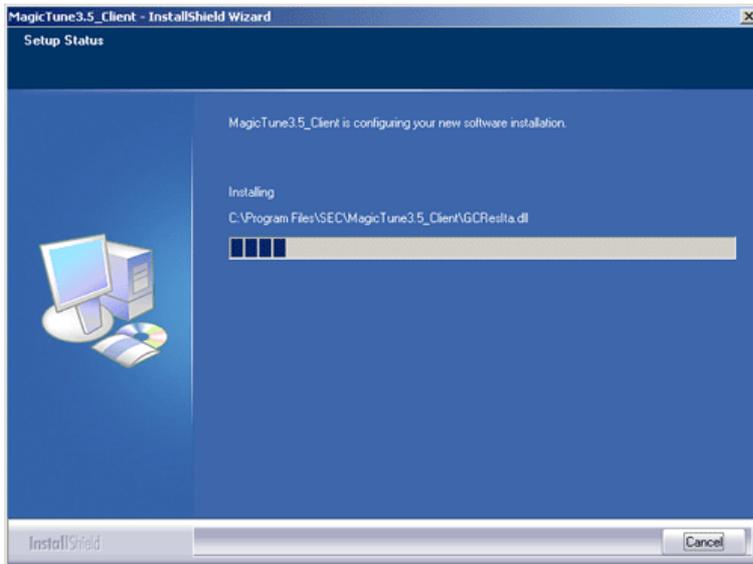
9. Click "Finish."
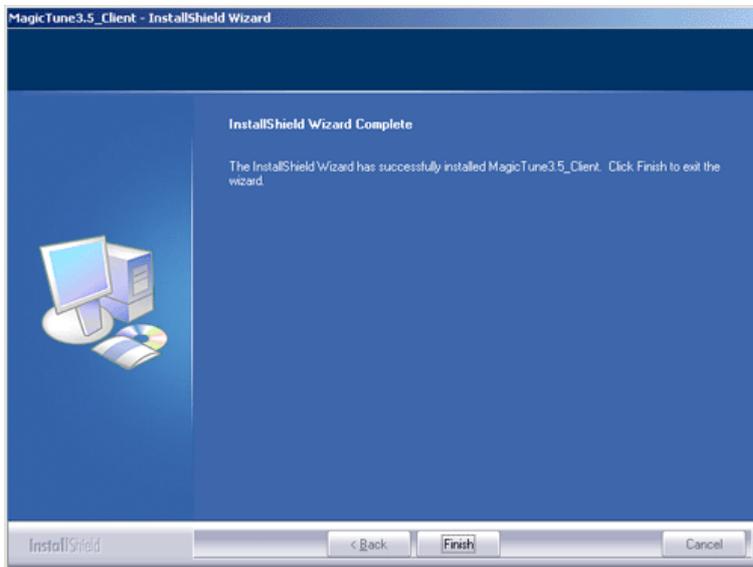
10. When the installation is complete, the MagicTune executable icon appears on your desktop.

Double-click the icon to start the program.

 Magictune execution icon may not appear depending on specification of computer system or monitor. If that happens, press F5 Key.

🔘 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

OS

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

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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Other trademarks are property of their respective holders.

MagicTune™ HELP

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

- **OSD mode may appear inconsistent with the explanation in guidance book depending on specification of each monitor.**
- **MagicTune control mode will be different according to monitor models.**

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

OK	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.

Picture Tab Definition

Allows the user to adjust the screen settings to the desired values.

⊙ Brightness ○ Contrast ○ MagicBright
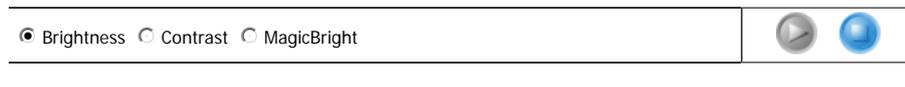
Brightness	Makes the entire screen brighter or darker. The detailed data of the images in the dark areas can be lost if the brightness is not adjusted to the proper level. Adjust the brightness for best viewing conditions.
Contrast	Adjusts the difference in brightness between the bright and dark areas on screen. Determines the crispness of the images.

MagicBright™	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,Game, Sport, Movie and Custom. Each mode has its own pre-configured brightness value. You can easily select one of six settings by simply pressing MagicBright control buttons.
	
	    ● **19" or above**
	
	  1. Text: For documentations or works involving heavy text.
	  2. Internet: For working with a mixture of images such as text and graphics.
	  3. Game: For watching motion pictures such as a Game.
	  4. Entertain: For watching motion pictures such as a DVD or VCD.
	
	    ● **Less than 19"**
	
	  1. Text: For documentations or works involving heavy text.
	  2. Internet: For working with a mixture of images such as text and graphics.
	  3. Entertain: For watching motion pictures such as a DVD or VCD.

⊟ Color Tab Definition

Adjusts the "warmth" of the monitor background or image color.

○ Color Tone   ○ Color Control

The tone of the color can be changed.

Color Tone
- 5000K - 6500K - 9300K
- Reset

Color Control

Adjusts of the monitor image color.
You can change the monitor color to your desired color.

- R- G - B
- sRGB

⊡ Image Tab Definition

Adjusts the Position, Size and Rotation values.

Geometry 1

◉ Rotation ○ Size ○ Position

Geometry 2

○ Pincushion ○ Pinbalance ○ Trapezoid ○ Parallelogram

Other

○ Moire ○ Degauss ○ Sidepin Corner Top ○ Sidepin Corner Bottom
○ Pinbalance Corner Top ○ Pinbalance Corner Bottom

Geometry 1	Adjusts the Position, Size and Rotation values. ● Position ● Size ● Rotation
Geometry 2	Adjusts the Pincushion, Pinbalance, Trapezoid and Parallelogram values. ● Pincushion ● Pinbalance ● Trapezoid ● Parallelogram
Other	Adjusts the Moire, Degauss, Sidepin Corner, and Pinbalance Corner values. ● Moire ● Degauss ● Sidepin Corner Top ● Sidepin Corner Bottom ● Pinbalance Corner Top ● Pinbalance Corner Bottom

🔲 **Option Tab Definition**

You can configure MagicTune using the following options.

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

Preferences

- Enable task tray menu .
  - To access the MagicTune menus, click the icon on the [task tray menu].
    The menus are not displayed if the [Enable System Tray] is deselected in [Options] ' [Basic Settings].
- Select Language - The language chosen affects only the language of the OSD.

Support Tab Definition

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

Help

Visit the MagicTune website or click to open the Help files (User Manual) if you need any help installing or running MagicTune. The User Manual opens within a basic browser window.

Asset ID

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 register in PC.
Server IP	Write down the server IP .
Department	Write down the department.
Location	Write down the location.

Version	Displays the version of MagicTune.

▦ Uninstall

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

Perform the following steps remove MagicTune.

1. Go to [Task Tray] ' [Start] ' [Settings] and select [Control Panel] in the menu. If the program runs on Windows™ XP, go to [Control Panel] in the [Start] menu.

2. Click the "Add or Remove Programs" icon in Control Panel.

3. In the "Add or Remove Programs" screen, scroll down to find "MagicTune." Click on it to highlight it.

4. Click the "Change/Remove" button to remove the program.

5. Click "Yes" to begin the uninstall process.

6. Wait until the "Uninstall Complete" dialog box appears.

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

::::: 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.**

● 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.)

🔅 Please visit our homepage to see the Troubleshooting section.

● 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.

🔅 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.

🔅 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.

● An error occurs when replacing the monitor with a new one when the system power is off but the system has not been restarted.

🔅 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.

Visit the video card maker's homepage and download and install the latest driver.

For more information about the video card, contact the card manufacturer.

To ensure normal operation, please restart your system.

An error occurs when the system is not restarted after installing MagicTune.

(This is for Win98SE and WinMe only.)

Restart the system before use.

For the best performance of MagicTune, adjust to the optimal resolution. Refer to the User Guide for the optimal resolution.

If you do not adjust to the optimal resolution and perform Color Calibration, the monitor cannot be adjusted to the optimal condition.

Refer to the manual for the optimal resolution.

This video card does not support MagicTune.

Please install a new video card driver.

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 from Start > Setup > System > Hardware > Device Manager > Display Adapter.

Visit the video card manufacturer's homepage and download and install the latest driver.

For more information about the video card, contact the card manufacturer.

As the Highlight program uses the communication lines,

please exit the Highlight program before you can access MagicTune.

Some of Samsung CDT monitors support the Highlight feature.

When using both the Highlight feature and MagicTune simultaneously, conflicts occur, which cause errors.

Make sure to turn OFF Highlight before using MagicTune.

::::: 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 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 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 Highlight Zone ensures the clear and sharp display of animated multimedia or photo images by enhancing the brightness of a certain area on the screen.

Highlight Zone III features a combination of the circuitry and the program built on the proprietary technology of SEC.

This offers an easy-to-use interface that highlights the video-playing portion of your multimedia program by automatically detecting and highlight the desired area by dragging.

The Highlight Zone provides optimal display of moving pictures. So, text may appear blurry in the Highlight Zone.

Automatic detect

1. When the Highlight program is running, the monitor automatically detects the video-playing portion of your multimedia program and activates the Highlight Zone feature. No selection is necessary.

   Major multimedia programs: Windows Media Player, RealPlayer 8.0, video players on the broadcasters¡¯ websites, etc.
   However, Automatic Detect may not work with a DVD player. (In this case, change the setting to Manual Detect mode to create a Highlight Zone.)
   Select 'Off' in Auto Detect menu when you wish to deactivate the Automatic Detect feature.
   Since this disables the Auto Detect capability of the monitor, the monitor does not automatically create a Highlight Zone.
   (When you first install the program, Automatic Detect is set to 'On'.)

Note 1 : When OSD is selected while the Auto Detect is running, Highlight Zone turns off temporarily not to disturb adjustment of display conditions such as brightness and color.

Manual detect

In Manual Detect mode, you can either select a window or use the Drag function to create a Highlight Zone.

1. Selecting a window: Click the Highlight icon(■)on the Windows taskbar once to activate(■)the cursor.
   Move the cursor onto the window of your choice and click once to Highlight the window.
2. Drag: Click the Highlight icon(■)on the Windows taskbar once to activate(■)the cursor.
   Click and hold the left mouse button, then drag the cursor to create a rectangle that covers the desired area. This rectangle becomes the Highlight Zone.

Note 1 : When the mouse cursor is activated(■)and it is necessary to de-activate it to use it for other tasks, right click your mouse,
  or put the activated cursor (■)on the taskbar and click. When de-activated, the icon on the screen changes back to the one shown before activation.
Note 2 : You can determine whether the Highlight feature is on/off by the appearance of the icon on the taskbar. On(■), Off(■)
Note 3 : When OSD is selected while the Manual Detect is running, Highlight Zone turns off temporarily, as it does when Auto detect is running.

Exit Program

1. Exits the Highlight program.

Auto Detect

1. Allows user to disable Auto Detect when necessary.
   Once selected, this function saves the selection and keeps it in the memory regardless of exiting or restarting the program.
   When selected, a check mark (V) appears.

Automatic detect
Manual detect
  Exit Program
  Auto Detect
  Picture Setting
  Full Screen
  Highlight Off
Other Features

Picture Setting

1. Can be selected only when the Highlight Zone function is on. When selected, a menu window appears which can be used to adjust Contrast and Sharpness within the Highlight Zone.
   After changing the setting, select OK to save the changes, or Cancel to return to the previous setting.

Automatic detect
Manual detect
 Exit Program
 Auto Detect
 Picture Setting
 Full Screen
 Highlight Off
Other Features

Full Screen

1. Full Screen: Place the cursor on the Highlight icon( )on the Windows taskbar and right click your mouse once. Then select Full Screen from the menu.

Highlight Off

1. Cancels the selection of a Highlight Zone and reverts to the original screen.

Other Features

The Highlight Zone function remembers the variables of the selected areas in Automatic and Manual Detect modes, respectively.

1. If the window selected as a Highlight Zone is moved or its size changed, the Highlight Zone changes accordingly.
2. If an un-selected window overlaps the window selected as a Highlight Zone, the Highlight Zone of the selected window turns off.
   However, it does not turn off the Zone completely and only makes the window shift to standby mode while the settings are saved. When the window is re-activated, the Highlight Zone turns on again with the settings unchanged.
3. If another un-overlapped window beside one with a Highlight Zone is selected as a Highlight Zone, Highlight Zone function is activated for the two separate windows simultaneously. (Up to two windows can be selected as a Highlight Zone and if another window is selected as a Highlight Zone, the Highlight Zone of the previous windows turns off.)
   When the Highlight Zone is created using the Drag function, the Zone functions independently of the above since it uses a random portion of the screen instead of a particular window.

Note 1 : How to cancel the saved variables of a selected window.
       1) When a window selected in Automatic Detect mode is replaced with another window also selected in Automatic Detect mode,
       only the last selection is saved, and the Highlight Zone function is de-activated for the previous windows.
       2) In Manual Detect mode, only the window (or the frame window) created last is saved, and the Highlight Zone function is de-activated for the previous windows.
       The Highlight Zone is de-selected when the program used to create the selected window is closed. The variables of the Highlight Zone created using the Drag function are not saved.
Note 2 : The changes saved under Picture Setting of the Highlight Zone menu remain effective even after the program is closed using Exit Program.
       (The next time you start the Highlight Zone program, the settings are shown as previously saved.)

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

Before calling for service, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

Symptom	Check List	Solutions
No images on the screen. I cannot turn on the monitor.	Is the power cord connected properly?	Check the power cord connection and supply.
	Can you see " ▭ ? " on the screen?	Check the signal cable connection.
	If the power is on, reboot the computer to see the initial screen (the login screen), which can be seen.	If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows ME/XP/2000) and then change the frequency of the video card. (Refer to the Preset Timing Modes) Note: If the initial screen (the login screen) does not appear, contact a service center or your dealer.
	Can you see " Hz ?" on the screen?	You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can properly handle. Adjust the maximum resolution and frequency that the monitor can handle properly.
	There is no image on the screen. Is the power indicator on the monitor blinking at 1 second intervals?	The monitor is in PowerSaver mode. Press any key on the keyboard to activate the monitor and restore the image on the screen.
The image on the screen is shaking.	Check the monitor configuration to see if it is in Interlace Mode. (Interlace Mode: Vertical frequency 43Hz, 87Hz(i), etc)	The signal from the video card exceeds the maximum resolution and frequency of the monitor.
	Are there any	Move the monitor away from

	magnetic products such as a power adapter, speaker or a high voltage wire near by?	anything that can create a strong magnetic field.
	Is the voltage stable?	The screen image can appear to shake or vibrate at a particular time of day due to low supply voltage.
	The screen image can also appear to shake or vibrate if there is a problem with the video card or the computer's main board.	
The screen shows strange colors or just black and white.	Is the screen displaying only one color as if looking at the screen through a cellophane 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).
The screen is partially distorted.	Are there any magnetic products such as an adapter, speaker or a high voltage wire near the monitor?	Enter the OSD and perform a "Degauss". Keep the monitor away from any magnetic products.
LED is blinking but no images on the screen.	Is the frequency properly adjusted when checking the Display Timing on the menu?	Adjust the frequency properly by referring to the video card manual and the Preset Timing Modes. (The maximum frequency per resolution may differ from product to product.)
There are only 16 colors shown on the screen. The screen colors have changed after changing the video card.	Have the Windows colors been set properly?	Windows ME/2000/XP: Set the colors properly at the **Control Panel Display Settings**.
	Has the video card been set properly?	Set the video card by referring to the video card manual.
There is a message that reads "Unrecognized monitor, Plug & Play (VESA DDC) monitor	Have you installed the monitor driver?	Install the monitor driver according to the Driver Installation Instructions.
	See the video card manual to see if the Plug & Play (VESA	Install the monitor driver according to the Driver Installation Instructions.

found".	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 from the http://www.samsung.com/monitor/magictune.

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

○ **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 adapter (video) driver and the monitor driver.
4. Check if the scanning ratio of the video screen is set at 50Hz or 160 Hz .
   (Do not exceed 65 Hz 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.

○ **Tips for Highlight Zone**

1. To protect CDT against the screen brightness, the Highlight Zone function persists for three hours and then automatically stops. So please reset it to continue.
2. Once the Highlight Zone has been switched off, you can't select any of the other menus within the Hightlight Zone.
3. When the Highlight Zone function is operated, the surrounding brightness of screen may become dark.
4. Depending on the video card you use, a color saturation phenomenon may occur in the Highlight Zone. In this case, slightly lower the contrast of the Highlight Zone and the color saturation will be reduced.

If problems repeatedly occur, contact an authorized service center.

○ **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 Display Settings**.
	* Contact the video card manufacturer for details.
How can I set the Power Saving function?	Windows ME/XP/2000 : Set the function at BIOS-SETUP of the computer or the screen saver. (Refer to Windows/Computer Manual).
The monitor makes a sound when it is turned on.	This is normal as some sound may be generated when the metal case and the electromagnet, which are installed to block any electromagnetic waves, interact with each other.
How can I clean the outer case/Picture tube?	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.

● **Highlight Zone III Q & A**

Question	Answer
The program does not function properly.	Highlight Zone III features a combination of circuitry and software built on proprietary technology of SEC. Therefore, the Highlight Zone III feature is found only on SEC monitors that support the feature. Check if your monitor supports the Highlight Zone III feature.
	If not, the Highlight Zone III icon will show a message saying, "No Connection" (❌)Connect the monitor properly before using it. Neither Automatic Detect or nor Manual Detect function while the icon shows the message, "No Connection". You can only exit the program.
Started a multimedia program but the Highlight Zone function does not automatically activate.	Check the Highlight Zone III menu and see if Disable Auto Detect is selected. When selected, the Highlight Zone function is not automatically activated.
	The function may not be activated automatically for some multimedia programs. In this case, use Manual Detect instead. See Manual Detect under (Highlight Zone III)
	Check the color settings and see if sRGB is selected. When sRGB is selected, the Highlight Zone III function remains de-activated in order to maintain the sRGB color attributes..
	* Contact the video card manufacturer for details.
Changed the setting to Highlight Zone in Manual Detect mode but the Highlight Zone feature has not been activated	Check the color setting of the monitor and see if sRGB is selected. When sRGB is selected, the Highlight Zone function remains de-activated in order to maintain the sRGB color attributes. Some of the windows may not be selected when Highlight Zone function is on.
Want to turn the Auto Detect function off.	Set Disable Auto Detect to off from the Highlight Zone III menu. See (Highlight Zone III functions)

Don¡¯t know whether the Highlight program is running.	Check the icon on the taskbar. (⬛) indicates the function is activated and (⬛)shows it has been deactivated.
When a Highlight Zone is on, the rest of the screen dims.	Monitors with the Highlight Zone feature are equipped with an Automatic Beam Control function. When activated, this may cause slight dimming of the surrounding screen. However, this does not indicate a malfunction of any kind, and it is safe to continue to use the product.
The Highlight Zone appears too dark.	Check the Contrast value in Picture Setting and adjust it for your ideal viewing.
Want to adjust the position and size of the Highlight Zone.	You can change the position and/or the size of the Highlight Zone easily using the Manual Detect function. See (Highlight Zone III functions)
Cannot select Picture Setting.	The Picture Setting feature can be selected only when the Highlight Zone function is on. Turn the Highlight Zone function on before selecting Picture Setting.

⬤ 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.

⬤ Self-Test Feature Check

1. Turn off both your computer and the monitor.

2. Unplug the video cable from the back of the computer.

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

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

4. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.
   If your monitor screen remains blank after using the previous procedure, check your video controller and computer system; your monitor is functioning properly.

⬤ Warning Messages

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

● Environment

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

1. If there are any sub woofer speakers near the monitor, unplug and relocate the woofer to another room.

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

3. Degauss the monitor if any devices were removed from the area.

● Useful Tips

- A monitor recreates visual signals received from the computer. Therefore, if there is trouble with the computer or the video card, this can cause the monitor to become blank, have poor coloring, noise, unavailable video mode, etc. In this case, first check the source of the problem, and then contact a service center or your dealer.

- **Judging the monitor's working condition**

  If there is no image on the screen or a "Hz ?" message comes up, disconnect the cable from the computer while the monitor is still powered on.

  - If there is a message coming up on the screen or if the screen goes white, this means the monitor is in working condition.

  - In this case, check the computer for trouble.

General | PowerSaver | Preset Timing Modes |

🔵 **General**

General	
Model Name	SyncMaster 795MB+
Picture Tube	
Type	17"(43cm) DynaFlat (40.6cm viewable)
Deflection angle	90 °
Dot Pitch	0.20mm (Horizontal)
Screen type	Aluminized tri-color phosphor dot trio with black matrix. Anti-doming invar shadow mask. Multi-layer coated with anti-static.
Resolution	
Optimum resolution	1024 x 768 @ 85Hz
Maximum resolution	1280 x 1024 @ 60Hz 1600 x 1200 @ 65Hz
Active Display	
Horizontal	312 ± 4 mm
Vertical	234 ± 4 mm
Synchronization	
Horizontal	30 ~ 85 kHz
Vertical	50 ~ 160 Hz
Input Signal Definition	
Video Signal	RGB, Analog 0.7 Vpp positive at 75 ohms
Sync Signal	Separate H/V sync, TTL level, positive or negative
Display Color	
Unlimited	
Maximum Pixel Clock	
185 MHz	
Power Supply	

90 ~ 264VAC rms, 60/50 Hz ± 3Hz
Power Consumption
Less than 75W
Dimensions (WxDxH)
402 x 412 x 402 mm / 15.8 x 16.2 x 15.8 inch (After installation of Stand)
Weight
14.65kg

Environmental considerations	
Operating	Temperature 32°F ~ 104°F(0°C ~ 40°C) Humidity 10% ~ 80%, non-condensing
Storage	Temperature -4°F ~113°F (-20°C ~ 45°C) Humidity 5% ~ 95%, non-condensing

Plug and Play Capability
This monitor can be installed on any Plug & Play compatible system. Interaction of the monitor and computer systems will provide the best operating conditions and monitor settings. In most cases, monitor installation will proceed automatically, unless the user wishes to select alternate settings.
Note: Design and specifications are subject to change without prior notice.

General | PowerSaver | Preset Timing Modes |

⬤ **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-off mode EPA/ENERGY 2000
Power Indicator	Green	Green, Blinking
Power Consumption	Less than 75W	Less than 2W

General | PowerSaver | Preset Timing Modes |

⬤ **Preset Timing Modes**

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

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VESA, 640 x 480	37.500	75.000	31.500	-/-

| VESA, 1024 x 768 | 68.677 | 84.997 | 94.500 | +/+ |
| VESA, 1280 x 1024 | 79.976 | 75.025 | 135.00 | +/+ |

Horizontal Frequency

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

Vertical Frequency

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

Service | Terms | Authority | 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
ECUADOR	1-800-10-7267	http://www.samsung.com/latin
EL SALVADOR	800-6225	http://www.samsung.com/latin
GUATEMALA	1-800-299-0013	http://www.samsung.com/latin
JAMAICA	1-800-234-7267	http://www.samsung.com/latin
PANAMA	800-7267	http://www.samsung.com/latin
PUERTO RICO	1-800-682-3180	http://www.samsung.com/latin
REP. DOMINICA	1-800-751-2676	http://www.samsung.com/latin
TRINIDAD & TOBAGO	1-800-7267-864	http://www.samsung.com/latin
VENEZUELA	1-800-100-5303	http://www.samsung.com/latin

Europe		
BELGIUM	02 201 2418	http://www.samsung.com/be

CZECH REPUBLIC	844 000 844	http://www.samsung.com/cz
DENMARK	38 322 887	http://www.samsung.com/dk
FINLAND	09 693 79 554	http://www.samsung.com/fi
FRANCE	08 25 08 65 65 (€ 0,15/min)	http://www.samsung.com/fr
GERMANY	01805 - 121213 (€ 0,12/Min)	http://www.samsung.de
HUNGARY	06 40 985 985	http://www.samsung.com/hu
ITALIA	199 153 153	http://www.samsung.com/it
LUXEMBURG	02 261 03 710	http://www.samsung.lu
NETHERLANDS	0900 20 200 88 (€ 0.10/Min)	http://www.samsung.com/nl
NORWAY	231 627 22	http://www.samsung.com/no
POLAND	0 801 801 881	http://www.samsung.com/pl
PORTUGAL	80 8 200 128	http://www.samsung.com/pt
SLOVAKIA	0850 123 989	http://www.samsung.com/sk
SPAIN	902 10 11 30	http://www.samsung.com/es
SWEDEN	08 585 367 87	http://www.samsung.com/se
U.K	0870 242 0303	http://www.samsung.com/uk

CIS		
RUSSIA	8-800-200-0400	http://www.samsung.ru
UKRAINE	8-800-502-0000	http://www.samsung.com/ur

Asia Pacific		
AUSTRALIA	1300 362 603	http://www.samsung.com/au
CHINA	800-810-5858, 010- 6475 1880	http://www.samsung.com.cn
HONG KONG	2862 6001	http://www.samsung.com/hk
INDIA	3030 8282, 1600 1100 11	http://www.samsung.com/in
INDONESIA	0800-112-8888	http://www.samsung.com/id
JAPAN	0120-327-527	http://www.samsung.com/jp
MALAYSIA	1800-88-9999	http://www.samsung.com/my
PHILIPPINES	1800-10-SAMSUNG (7267864)	http://www.samsung.com/ph
SINGAPORE	1800-SAMSUNG (7267864)	http://www.samsung.com/sg
THAILAND	1800-29-3232, 02-689-3232	http://www.samsung.com/th
TAIWAN	0800-329-999	http://www.samsung.com/tw
VIETNAM	1 800 588 889	http://www.samsung.com/vn

Middle East & Africa		
SOUTH AFRICA	0860 7267864 (SAMSUNG)	http://www.samsung.com/za
U.A.E	800SAMSUNG (7267864)	http://www.samsung.com/mea

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

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

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

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

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

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

🔵 **Highlight Zone III**
Highlight Zone is an enhancement feature to increase luminance in a certain area of the monitor for brighter and sharper images/photos. Highlight Zone III is carried by Samsung's unique circuit technology and a powerful combination of programs in order to implement the Highlight Zone feature. This is a user friendly program that automatically highlights a certain video area or enables users to specify an area of their choice to be highlighted.

🔵 **MagicBright™**
MagicBright is an advanced monitor that boasts more than twice the brightness and sharpness compared to conventional models, and which provides a contextual display environment depending on word processing, internet, game or video purposes. The user can use the front button panel to control the screen at four different levels of brightness and sharpness for their preference.

🔵 **MagicGreen**
The MagicGreen CDT monitor has adopted a Well-Being CDT that is coated with a Vital & Pure coating, which radiates far infrared and anion and provides antibacterial and deodorizing effects.
- **Vital Coating** Radiates far infrared and anion by applying a specialized ceramic on the surface of the CDT funnel.
- **Pure Coating**
                Provides antibacterial deodorizing effects by treating the surface with

photocatalyst TiO2 and Nano Silver.

Authority

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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.

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

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

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

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

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