

SAMSUNG

SyncMaster 750p
SyncMaster 950p
SyncMaster 950p *Plus*

Color Monitor



**Owner's
Instructions**

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Safety Instructions

- 1** Before connecting the AC power cord to the DC adapter outlet, make sure the voltage designation of the DC adapter corresponds to the local electrical supply.
- 2** Never insert anything metallic into the monitor openings. Doing so may create the danger of electric shock.
- 3** To avoid electric shock, never touch the inside of the monitor. Only a qualified technician should open the monitor's case.
- 4** Never use your monitor if the power cord has been damaged. Do not allow anything to rest on the power cord, and keep the cord away from areas where people can trip over it.
- 5** Be sure to hold the plug, not the cord, when disconnecting the monitor from an electric socket.
- 6** Openings in the monitor cabinet are provided for ventilation. To prevent overheating, these openings should not be blocked or covered. Also, avoid using the monitor on a bed, sofa, rug, or other soft surface. Doing so may block the ventilation openings in the bottom of the cabinet. If you put the monitor in a bookcase or some other enclosed space, be sure to provide adequate ventilation.
- 7** Put your monitor in a location with low humidity and a minimum of dust.
- 8** Do not expose the monitor to rain or use it near water (In kitchens, near swimming pools, etc.). If the monitor accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the monitor with a damp cloth when necessary, but be sure to unplug the monitor first.
- 9** Place the monitor on a solid surface and treat it carefully. The screen is made of glass and can be damaged if dropped or hit sharply.
- 10** Locate your monitor near an easily accessible AC outlet.
- 11** 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.
- 12** High temperature can cause problems. Don't use your monitor in direct sunlight, and keep it away from heaters, stoves, fireplaces, and other sources of heat.
- 13** Unplug the monitor when it is going to be left unused for an extended period of time.
- 14** Unplug your monitor from the AC outlet before any service.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

Unpacking Your Monitor

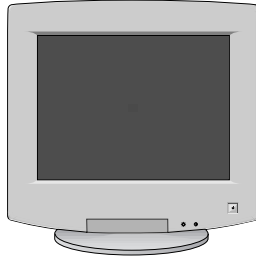
Please make sure the following items are included with your monitor. If any items are missing, contact your dealer.



Manual



Warranty Card
(Not available in all areas)



Monitor and Stand



CD-ROM



Power Cord



Signal Cable

Setting up Your Monitor

Connecting Your Monitor

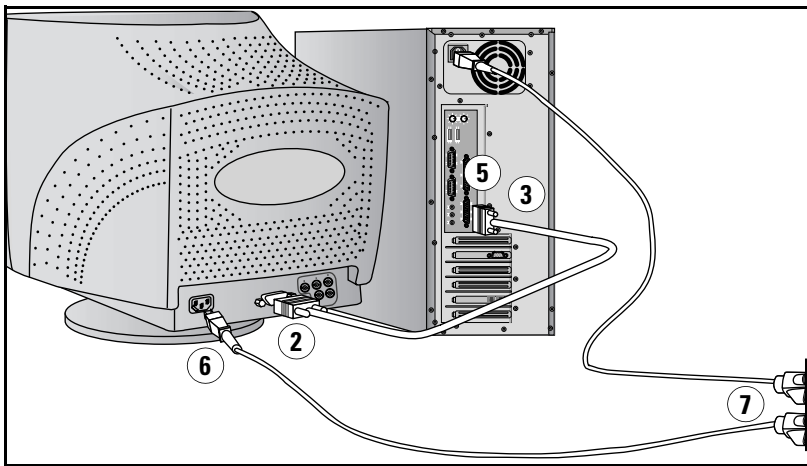


Figure 1. Cable connections

- 1** Turn off your computer and unplug its power cord.
- 2** Connect the signal cable to the D-SUB or BNC signal port on the back of your monitor.
- 3** If you are using an IBM-compatible computer, skip to step 5. If you are using a Macintosh computer, connect the other end of the signal cable to a Macintosh adapter.
- 4** Follow the instructions included with your adapter to set the pins on your adapter, if necessary.
- 5** Connect the signal cable (with an adapter, if necessary) to the video port on the back of your computer. This port might be directly attached to your computer, or it might be part of a video adapter, video card, or graphics card.
- 6** Connect the power cord for your monitor to the power port on the back of the monitor.
- 7** Plug the power cords of your computer and your monitor into a nearby outlet.
- 8** Turn on your computer and monitor. If your monitor displays an image, installation is complete.

Setting up Your Monitor

Plug and Play

Our adoption of the new VESA® Plug and Play solution eliminates complicated and time consuming setup. It allows you to install your monitor in a Plug and Play compatible system without the usual hassles and confusion. Your PC system can easily identify and configure itself for use with your display. This monitor automatically tells the PC system its Extended Display Identification (EDID) data using Display Data Channel (DDC) protocols so the PC system can automatically configure itself to use the flat panel display. If your PC system needs a video driver, following the instructions given below according to the operating system your computer uses.

Installing the Video Driver

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

Windows® 2000 and Windows® 98

- 1** Windows® 2000 and Windows® 98 will auto-detect your new monitor and start the "Add New Hardware Wizard" if the drivers are not already installed. Click the **NEXT** button to search for drivers.
- 2** Check the diskette drive box to install the drivers off the diskette provided with your monitor and click **NEXT**.
- 3** Confirm that Windows found the driver on the diskette and click **NEXT** again to install the driver.

To manually install or update the driver, follow the directions below:

- 1** Click on **START, SETTINGS, CONTROL PANEL, DISPLAY SETTINGS** tab, **ADVANCED, MONITOR** tab, **CHANGE**. This will start the "Add New Hardware Wizard".
- 2** Follow the same directions as given in the steps in the section above.

Setting up Your Monitor

Windows® 95

To determine the version of Windows® Windows 95 that your computer uses, right click on the **My Computer** icon on the Windows desktop and select **Properties**. The version number can be seen on the **General** section under "System:". Follow the directions given below according to the version of your Windows® 95 operating system:

Version 4.00.950A

- 1 Click on **START, SETTINGS, CONTROL PANEL, DISPLAY SETTINGS** tab, **CHANGE DISPLAY TYPE, CHANGE, HAVE DISK**.
- 2 Type the diskette drive letter in the box and click **OK**.

Version 4.00.950B

- 1 Click on **START, SETTINGS, CONTROL PANEL, DISPLAY, ADVANCED PROPERTIES, MONITOR** tab, **HAVE DISK**.
- 2 Type the diskette letter in the box and click **OK**.

Self-Test Feature Check (STFC)

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark and the power indicator is blinking, run the monitor self-test by performing the following steps:

- 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 white box with a red border and black text inside as shown in the following illustration:

Setting up Your Monitor

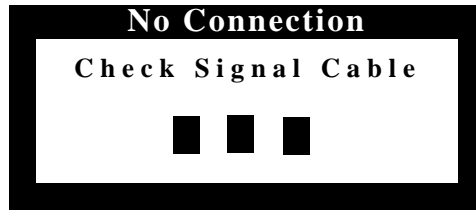


Figure 2. Monitor self test screen

The three boxes inside the border are red, green and blue. Failure of any of the boxes to appear indicates a problem with your monitor. This box also appears during normal operation if the video cable becomes disconnected or damaged.

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

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

Getting Help

If your monitor does not display an image, check your cable connections and refer to Troubleshooting on page 23.

Warm-up Time

All monitors need time to become thermally stable the first time you turn them on each day. Therefore, to achieve more accurate adjustments for parameters, allow the monitor to warm (be on) for at least 30 minutes before making any screen adjustments.

Adjusting Your Monitor

User Controls

Your Samsung SyncMaster computer monitor allows you to easily adjust the characteristics of the image being displayed. All of these adjustments are made using the control buttons on the front of the monitor. These buttons operate the on-screen menu, which shows you the monitor's settings and allows you to change those settings.

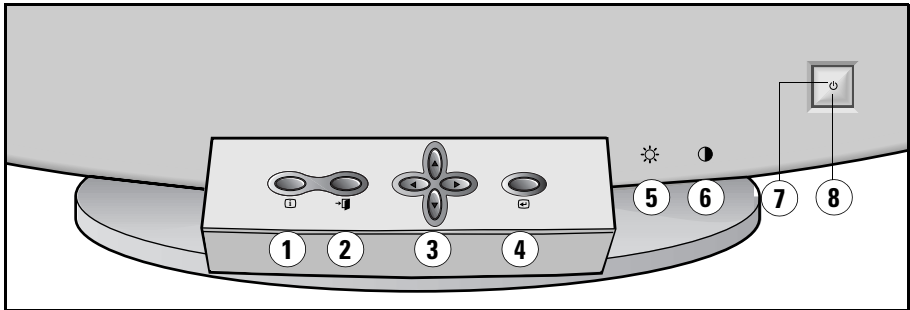


Figure 3. User control locations

- 1 Information (**i**) button**
Use this button to show the horizontal and vertical frequencies and the resolution received from your computer or video board.
- 2 EXIT (**→□**) button**
Use this button to Exit the active menu or the OSD.
- 3 ▲, ▼, ◀, ▶ buttons**
These buttons allow you to highlight and adjust items in the menu. All menus automatically save your adjustments 3 seconds after you stop adjusting the setting.
- 4 MENU (**□→**) button**
Use this button to open the OSD and activate a highlighted menu item.
- 5 Brightness**
This rotary control adjusts the overall brightness of the display image. Rotate the control to the left to increase the level of brightness, or to the right to decrease the brightness.
- 6 Contrast**
This rotary control adjusts the monitor's contrast. Rotate the rotary control to the left to increase the contrast between dark colors and light colors, or move it to the right to decrease the contrast.

Adjusting Your Monitor

7 Power indicator

This light glows green during normal operation, and blinks amber once as the monitor saves your adjustments.

8 Power button

Use this button to turn the monitor on and off.

Automatic Save

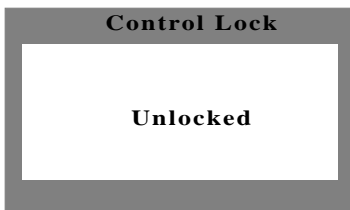
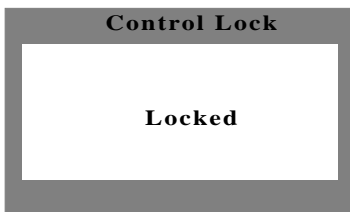
Whenever you open the on-screen menu and allow an adjustment window to remain active for about 3 seconds without pressing another button, the monitor automatically saves any adjustments you have made. These changes are saved into a user area in the monitor. User areas are reserved according to the signal frequency from your computer. The monitor can save adjustments for up to 10 user modes. It has 8 factory preset or preload modes, one for each signal frequency as listed in Display Modes on page 27.

If you have made no adjustments, the on-screen menu disappears and the monitor does not save anything. To exit without saving the changes you have made, press the **EXIT** (→) button before the 3 seconds elapse.

Direct-Access Feature

The feature described on this page and the next page can be accessed quickly, at the touch of one button. When you finish making adjustments to a feature, push the **EXIT** (→) button to turn off the menu or allow the OSD to time out and disappear automatically.

OSD Lock/Unlock

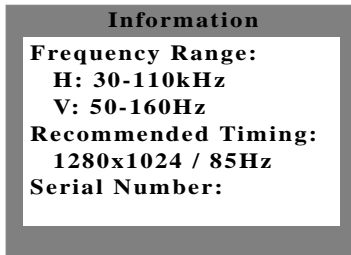


Allows you to secure the current control settings so that they cannot be inadvertently changed. You can unlock the OSD controls at any time by using the same procedure.

- 1 Push and hold the **MENU** (⇄) button for 10 seconds or more to Lock or to Unlock.

Adjusting Your Monitor

Information



The Information on this screen shows available horizontal and vertical frequencies and display resolution.

- 1** With the menu off, push the **i** button once to see information about your monitor. The current Horizontal/Vertical frequencies received from the computer or video board is displayed along the bottom.
- 2** Push the **i** button once more to see the user defined timing mode.
- 3** Scroll down with the button to display the factory preset timings.

Note: These screens do not allow any changes to the settings; they are for information only.

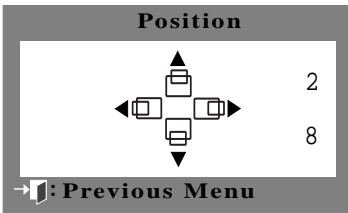
Adjusting Your Monitor

Menu Features











The following features can all be accessed using your monitor's on-screen menu system. Follow the instructions below to adjust the features.

Once you are finished making adjustments to a feature, push the **EXIT** button to return to the main menu then push **EXIT** again to turn off the menu.

Position

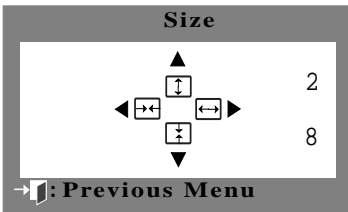
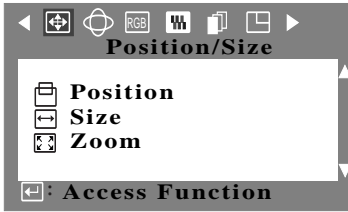


Follow these instructions to change the position of the monitor's entire display.











- 1** With the menu off, push the  button. Push the  button or  button until the "Position / Size" screen is displayed.
- 2** Push the  button or  button to select **Position**.
- 3** Push the  button to open the Position adjustment screen.
- 4** Use the  and  buttons to change the vertical position of the monitor's viewing area; use the  and  buttons to change the horizontal position of the monitor's viewing area.

Adjusting Your Monitor

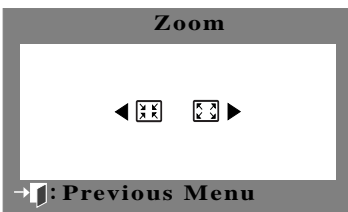
Size











Follow these instructions to change the size of the monitor's entire display.

- 1 With the menu off, push the  button. Push the  button or  button until the "Position / Size" screen is displayed.
- 2 Push the  button or  button to select **Size**.
- 3 Push the  button to open the Size adjustment screen.
- 4 Use the  and  buttons to change the vertical Size of the monitor's viewing area; use the  and  buttons to change the horizontal Size of the monitor's viewing area.

Zoom

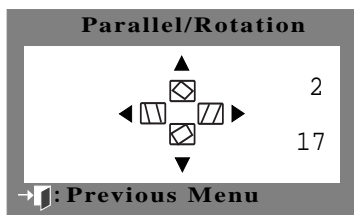
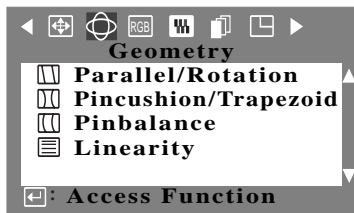


Follow these instructions to get a close-up or a longshot view of the monitor's viewing area.











- 1 With the menu off, push the  button. Push the  button or  button until the "Position / Size" screen is displayed.
- 2 Push the  button or  button to select **Zoom**.
- 3 Push the  button to open the Zoom adjustment screen.
- 4 Use the  button to decrease the screen viewing area. Use the  button to enlarge the screen viewing area.

Adjusting Your Monitor

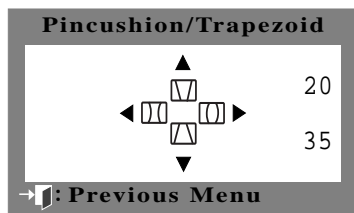
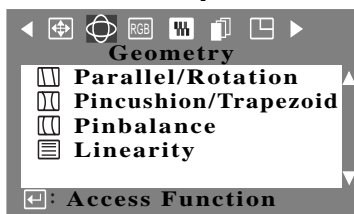
Parallel/Rotation













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.

- 1 With the menu off, push the  button. Push the  button or  button until the "Geometry" screen is displayed.
- 2 Push the  button or  button to select **Parallel/Rotation**.
- 3 Push the  button to open the Parallel/Rotation adjustment screen.
- 4 Use the  button or  button to adjust the parallel setting; use the  button or  button to adjust the rotation setting.

Pincushion/Trapezoid

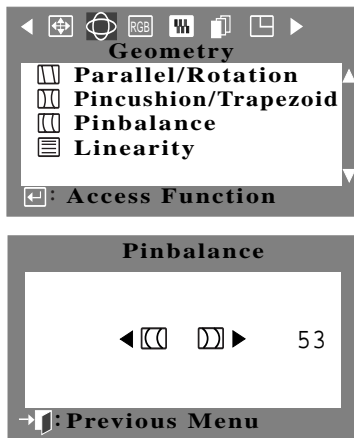


Adjust the pincushion setting when the sides of the display are bowed in or bowed out; adjust the trapezoid setting when the top or bottom of the display is too large or small.









- 1 With the menu off, push the  button. Push the  button or  button until the "Geometry" screen is displayed.
- 2 Push the  button or  button to select **Pincushion/Trapezoid**.
- 3 Push the  button to open the Pincushion/Trapezoid adjustment screen.
- 4 Use the  button or  button to adjust the pincushion setting; use the  button or  button to adjust the trapezoid setting.

Adjusting Your Monitor

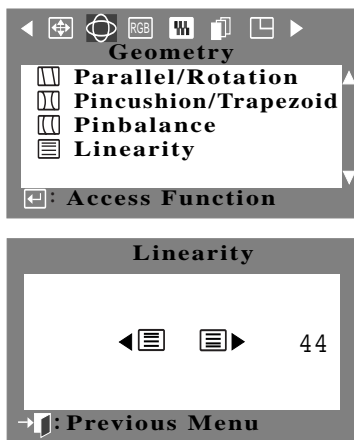
Pinbalance











Adjust the pinbalance setting when the sides of the display are bowed towards the left or right.

- 1 With the menu off, push the  button. Push the  button or  button until the "Geometry" screen is displayed.
- 2 Push the  button or  button to select **Pinbalance**.
- 3 Push the  button to open the Pinbalance adjustment screen.
- 4 Use the  button or  button to adjust the pinbalance setting.

Linearity

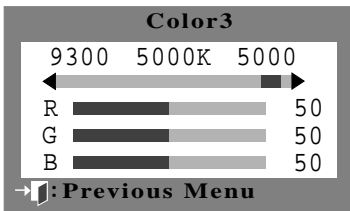
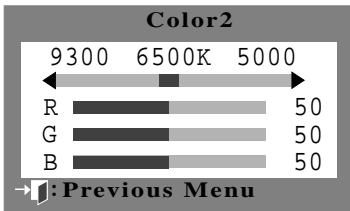
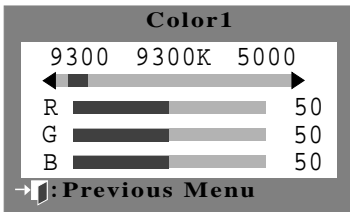
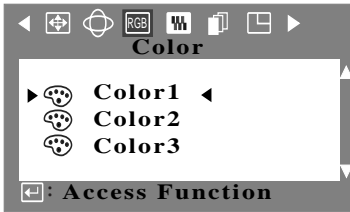


Adjust the linearity setting when the display image is compressed at the left, right or top, bottom.

- 1 With the menu off, push the  button. Push the  button or  button until the "Geometry" screen is displayed.
- 2 Push the  button or  button to select **Linearity**.
- 3 Push the  button to open the Linearity adjustment screen.
- 4 Use the  button or  button to adjust the vertical Linearity.

Adjusting Your Monitor

Color



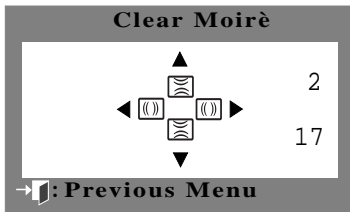
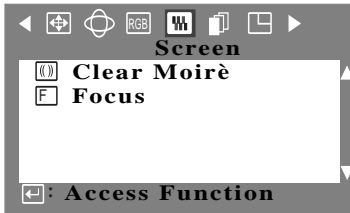
Color temperature is a measure of the “warmth” of the image colors. The available range is between 5000 to 9300K. Follow these steps to change the color temperature and adjust individual R, G, B color control.

- 1 With the menu off, push the button. Push the button or button until the “Color” screen is displayed.
- 2 Use the button or button to select **Color 1**, **Color 2**, or **Color 3**.
- 3 Push the button to open the “Color 1”, “Color 2”, or “Color 3” adjustment screen.
- 4 The current color temperature is shown highlighted between 9300 and 5000K. Use the button or button to adjust the color temperature.
- 5 Adjust the color temperature as close to the desired temperature as possible using only the and buttons. To fine tune the color hue, use the or button to select **R**(ed), **G**(reen), or **B**(lue), then use the and buttons until you reach the desired color.











Note: Recall does not reset the color settings.

Adjusting Your Monitor

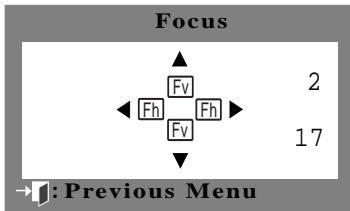
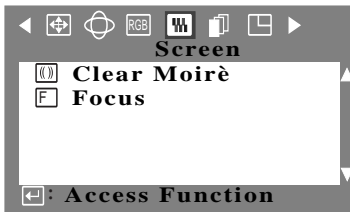
Clear Moirè













A “moirè” pattern can appear on your screen, looking like a series of concentric circles or arcs. To eliminate this pattern, use the clear moirè adjustments.

- 1 With the menu off, push the  button. Push the  button or  button until the “Screen” OSD is displayed.
- 1 Push the  button or  button to select **Clear Moirè**.
- 2 Push the  button to open the clear moirè adjustment screen.
- 3 Use the  button or  button to adjust horizontal moirè; use the  button or  button to adjust vertical moirè.

Focus

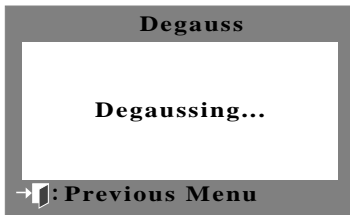
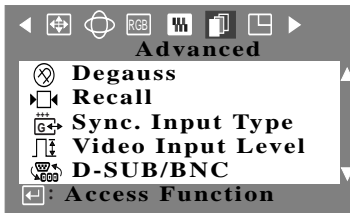


Use the focus control when the image displayed on the screen is not sharp in all areas.

- 1 With the menu off, push the  button. Push the  button or  button until the “Screen” OSD is displayed.
- 2 Push the  button or  button to select **Focus**.
- 3 Push the  button to open the Focus adjustment screen.
- 4 Use the  button or  button to adjust the focus along the left and right areas of the screen. Use the  button or  button to adjust the center area of the screen.

Adjusting Your Monitor

Degauss



The Degauss feature will remove color impurities caused by magnetic fields. Do not use the Degauss feature more than once within a 30-minute period.

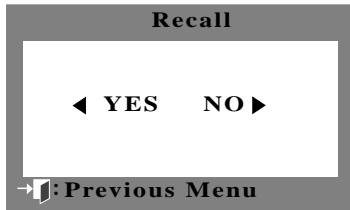
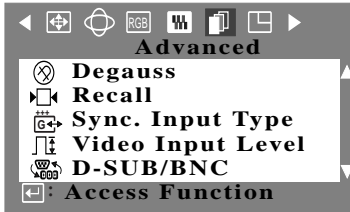
- 1** With the menu off, push the button. Push the button or button until the "Advanced" screen is displayed.
- 2** Push the button or button to select **Degauss**.
- 3** Push the button to execute the degauss function. The degaussing screen will appear.

NOTE: The monitor may buzz momentarily, the image colors may change and the image will jiggle for a few seconds. These effects are normal.

- 4** After a few seconds, the degauss main menu will return.

Adjusting Your Monitor

Recall



Use the recall feature to reset these monitor settings to their original levels: Position, Size, Pincushion, Trapezoid, Parallelogram, Pinbalance, Rotation, and Clear moiré.

- 1 With the menu off, push the button. Push the button or button until the "Advanced" screen is displayed.
- 2 Push the button or button to select **Recall**.
- 3 Push the button to open the recall selection screen.
- 4 Push the button to select **YES**. If you don't want to reset the monitor, use the button to select **NO**.

NOTE: If you have selected "YES", all settings listed above will be reset. All other settings will remain the same.

CAUTION: This operation resets all of the data in the user memory area for the current timing signal.

User-Delete

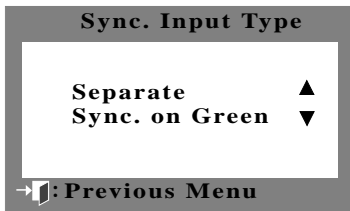
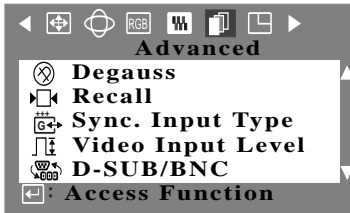


Push and hold **EXIT** () button for at least 5 seconds.

CAUTION: This operation resets all of the data in the user memory area. If this occurs, you must remake your user adjustments.

Adjusting Your Monitor

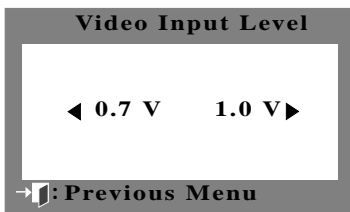
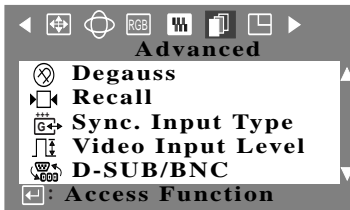
Sync. Input Type



Use this menu to set your monitor to the correct type of synchronization. Select "Separate" if the computer is sending a separate synchronization signal. Select "Sync. on Green" if the computer expects the monitor to synchronize with the green signal it sends. Refer to your computer or video card user's manual to determine the correct setting.

- 1 With the menu off, push the button. Push the button or button until the "Advanced" screen is displayed.
- 2 Push the button or button to select **Sync. Input Type**.
- 3 Push the button to open the sync input type selection screen.
- 4 Use the button or button to select **Separate** or **Sync. on Green**.

Video Input Level

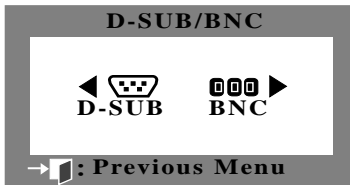
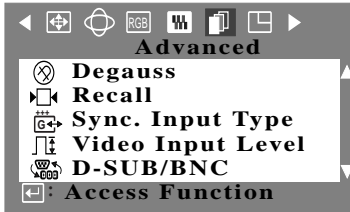


Some video cards use video signals higher than 1.0 V which causes the display to be very bright. For those video cards, use this feature to select the 1.0 V Level.

- 1 With the menu off, push the button. Push the button or button until the "Advanced" screen is displayed.
- 2 Push the button or button to select **Video Input Level**.
- 3 Push the button to open the video input level selection screen.
- 4 Use the or buttons to select 0.7 V or 1.0 V.

Adjusting Your Monitor

D-SUB/BNC

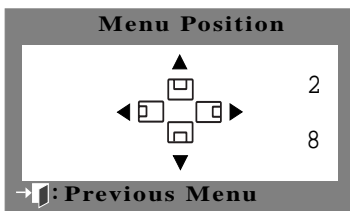


Use this menu to choose between the signal source connected to the BNC connector input and the signal source connected to the D-SUB connector input.

- 1 With the menu off, push the button. Push the button or button until the "Advanced" screen is displayed.
- 2 Push the button or button to select **D-SUB/BNC**.
- 3 Push the button to open the D-SUB/BNC selection screen.
- 4 Use the button or button to select **D-SUB** or **BNC**.

NOTE: When you are finished, wait for a few seconds and the screen will blank then display the image from the new signal source (Other computer). A cable must be connected to both inputs to use this function.

Menu Position

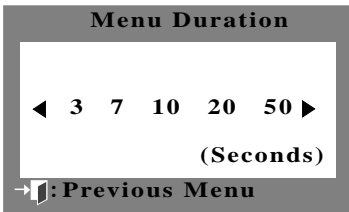


You can change the position where the OSD menu appears on your monitor.

- 1 With the menu off, push the button. Push the button or button until the "Menu" screen is displayed.
- 2 Push the button or button to select **Menu Position**.
- 3 Push the button to open the menu position adjustment screen.
- 4 Use the , , or button to place the menu in the position you prefer.

Adjusting Your Monitor

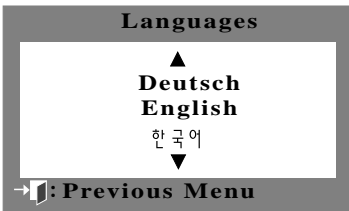
Menu Duration



The menu will automatically turn off if no adjustments are made for a certain time period. You can set the amount of time the menu will wait before it turns off.

- 1 With the menu off, push the button. Push the button or button until the "Menu" screen is displayed.
- 2 Push the button or button to select **Menu Duration**.
- 3 Push the button to open the menu duration selection screen.
- 4 Use the or buttons to select **3, 7, 10, 20, or 50** seconds. 10 seconds is the default value.

Languages



Follow these steps to change the language used in the menu. The language chosen affects only the language of the OSD. It has no effect on any software running on the computer.

- 1 With the menu off, push the button. Push the button or button until the "Menu" screen is displayed.
- 2 Push the button or button to select **Languages**.
- 3 Push the button to open the language selection screen.
- 4 Use the button or button to select the language you would like to use. You can choose one of nine languages (English, Korean, Russian, Swedish, Portuguese, Italian, French, Spanish, or German).

Appendix

PowerSaver

This monitor has a built-in power management system called PowerSaver. This power management 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 available modes are “On,” “Standby,” “Suspend,” and “Off”.

This power management system operates with a VESA DPMS compliant video card installed in your computer. You use a software utility installed on your computer to set up this feature. See the table below for details.

Table 1. Power-saving modes

State	Normal Operation	Power-Saving Function mode (EPA/NUTEK)		
		Standby Mode	Suspend Mode Position A1	Power-off Mode Position A2
Horizontal Sync	Active	Inactive	Active	Inactive
Vertical Sync	Active	Active	Inactive	Inactive
Video	Active	Blanked	Blanked	Blanked
Power Indicator	Green	Amber	Amber/Green Blinking (0.5 sec interval)	Amber Blinking (1 sec interval)
Power Consumption	750p : 120W (Max.) 100W (Nom.) 950p / 950p PLUS : 130W (Max.) 110W (Nom.)	60W(Nom.)	Less than 15W	Less than 3W

NOTE: This monitor automatically returns to normal operation when horizontal and vertical sync return. This occurs when you move the computer's mouse or press a key on the keyboard.

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

For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods.

Troubleshooting

Before calling for service, check the information in this section to see if you can remedy any problems yourself.

If you do need assistance, please call the phone number on the warranty card, the phone number on the back cover of this manual, or contact your dealer.

Table 2. Troubleshooting problems

Symptom	Corrective Actions
There is no screen image	<ul style="list-style-type: none">• Check to see that both the monitor and the computer are plugged in and turned on.
"No Connection, Check Signal Cable" appears	<ul style="list-style-type: none">• Check the signal cable connections between the computer and the monitor.
"Sync. Out of Range" appears	<ul style="list-style-type: none">• Check the maximum resolution and the frequency on the video port of your computer.• Compare these values with the data in the Display Modes Timing chart, on page 27.
The image is too light or too dark	<ul style="list-style-type: none">• Adjust the Brightness or Contrast settings.
The image is too large or too small	<ul style="list-style-type: none">• Adjust the Size settings.
The colors are distorted with dark or shadowed areas	<ul style="list-style-type: none">• Activate the Degauss feature.
The power indicator is amber, amber/green blinking or amber blinking	<ul style="list-style-type: none">• The monitor is using its power management system. Check the power management utility on your computer
You need the monitor driver software	<ul style="list-style-type: none">• You can download the driver from the internet at http://www.samsungelectronics.com/support/downloads/monitor/index.html

Appendix

Specifications

Table 3. Specifications : **750p**

Picture Tube	43 cm (17") Full square type [40.6 cm(16") Viewable] Flat face, 90° Deflection Dot pitch : 0.22mm (H) / 0.13mm (V) Anti-reflection coating with anti-electrostatic properties Medium-short persistence phosphor
Synchronization	Horizontal: 30 kHz to 96 kHz (Automatic) Vertical: 50 Hz to 160 Hz (Automatic)
Display Colors	Unlimited Colors
Maximum Resolution	Horizontal: 1600 Dots Vertical: 1200 Lines
Active Display	Horizontal: 306 ± 3 mm (12.05" ± 0.12") Vertical: 230 ± 3 mm (9.06" ± 0.12") (Active display size is dependent upon signal timing and image size selection.)
Input Signal, Terminated	Video signal: Analog video 0.7 Vpp positive at 75 Ω Separate sync.: TTL Level, positive or negative Composite sync.: TTL Level, positive or negative Sync-on-green: Composite sync 0.3 Vpp negative (Video 0.7 Vpp positive)
Maximum Pixel Clock	205 MHz
Power Supply	AC 100-240 V ± 10%, 60 Hz/50 Hz ± 3 Hz
Power Consumption	120 W (Maximum)
Dimensions/Weight (W x D x H)	Unit: 415.0 x 430.3 x 438 mm; 17.7 kg 16.3 x 16.9 x 17.2 inch; 39.0 lbs Carton: 535.0 x 566.0 x 555 mm; 20.7 kg 21.1 x 22.3 x 21.9 inch; 45.6 lbs (All measurements approximate)
Environmental Considerations	Operating Temperature: 32°F to 104°F (0°C to 40°C) Humidity: 10% to 80% Storage Temperature: -4°F to 113°F (-20°C to 45°C) Humidity: 5% to 95%

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

Appendix

Table 3. Specifications : **950p / 950p Plus**

Picture Tube	48.2 cm (19") Full square type [45.8 cm (18.0") Viewable] Flat face, 90° Deflection Dot pitch : 0.22mm (H) / 0.14mm (V) Anti-reflection coating with anti-electrostatic properties Medium-short persistence phosphor
Synchronization	Horizontal: 950p : 30 kHz to 96 kHz 950p Plus : 30 kHz to 110 kHz Vertical: 950p : 50 Hz to 160 Hz 950p Plus : 50 Hz to 160 Hz
Display Colors	Unlimited Colors
Maximum Resolution	Horizontal: 1600 Dots Vertical: 1200 Lines
Active Display	Horizontal: 352 ± 3 mm (13.85" ± 0.12") Vertical: 264 ± 3 mm (10.39" ± 0.12") (Active display size is dependent upon signal timing and image size selection.)
Input Signal, Terminated	Video signal: Analog video 0.7 Vpp positive at 75 Ω Separate sync.: TTL Level, positive or negative Composite sync.: TTL Level, positive or negative Sync-on-green: Composite sync 0.3 Vpp negative (Video 0.7 Vpp positive)
Maximum Pixel Clock	950p : 205 MHz 950p Plus : 240 MHz
Power Supply	AC 100-240 V ± 10%, 60 Hz/50 Hz ± 3 Hz
Power Consumption	130 W (Maximum)
Dimensions/Weight (W x D x H)	Unit: 469.0 x 493.5 x 471 mm; 21.7 kg 18.5 x 19.4 x 18.5 inch; 47.8 lbs Carton: 572 x 590 x 580 mm; 25.3 kg 22.5 x 23.2 x 22.8 inch; 55.8 lbs (All measurements approximate)
Environmental Considerations	Operating Temperature: 32°F to 104°F (0°C to 40°C) Humidity: 10% to 80% Storage Temperature: -4°F to 113°F (-20°C to 45°C) Humidity: 5% to 95%

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

Appendix

Pin Assignments

Table 4. 15-Pin D-SUB connector

Sync. Type	15-Pin Side of the Signal Cable (Figure 1)			Cable Adapter (Figure 2)
	Separate	Composite	Sync on Green	
Pin No.	Separate	Composite	Sync on Green	Apple MacII
1	Red	Red	Red	GND-R
2	Green	Green	Green+Sync.	Red
3	Blue	Blue	Blue	H/V Sync.
4	GND	GND	GND	Sense 0
5	DDC Return	DDC Return	DDC Return	Green
6	GND-R	GND-R	GND-R	GND-G
7	GND-G	GND-G	GND-G	Sense 1
8	GND-B	GND-B	GND-B	Reserved
9	Reserved	Reserved	Reserved	Blue
10	GND-Sync./Self-Raster	GND-Sync./Self-Raster	GND-Sync./Self-Raster	Sense 2
11	GND	GND	GND	GND
12	DDC Data	DDC Data	DDC Data	V-Sync.
13	H-Sync.	H-Sync.	Not Used	GND-B
14	V-Sync.	Not Used	Not Used	GND
15	DDC Clock	DDC Clock	DDC Clock	H-Sync.

Figure 1: Male Type

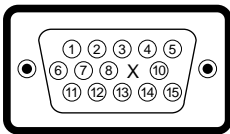
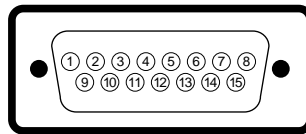


Figure 2: Male Type

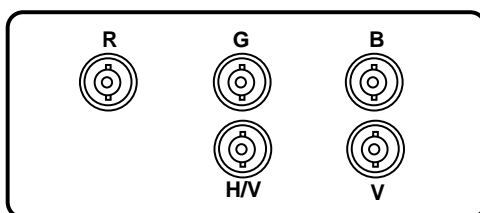


Appendix

Table 5. BNC Connectors

Pin Assignment	Signals		
	Sync-On-Green	Composite Sync.	Separate Sync.
R	Red	Red	Red
G	Green+Sync.	Green+Sync.	Green
B	Blue	Blue	Blue
H/V	NC	H/V Comp. Sync.	H-Sync.
V	NC	NC	V-Sync.

NC = No Connection



Display Modes

For the display modes listed below, the screen image has been optimized during manufacture.

Table 6. Preset timing modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, VGA2, 720 x 400	31.469	70.087	28.322	-/+
IBM, VGA3, 640 x 480	31.469	59.940	25.175	-/-
VESA, 800 x 600	53.674	85.061	56.250	+/+
VESA, 1024 x 768 (750p)	60.023	75.029	78.750	+/+
VESA, 1024 x 768	68.677	84.997	94.500	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1280 x 1024	91.146	85.024	157.500	+/+
VESA, 1600 x 1200 (950p)	93.750	75.000	202.500	+/+
VESA, 1600 x 1200 (950p Plus)	106.250	85.000	229.500	+/+
MAC. 832 x 624 (750p)	49.726	74.551	57.284	-/-
MAC. 1152 x 870 (950p/950p Plus)	68.681	75.062	100.000	-/-

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Regulatory Information

FCC Information

User Instructions

The Federal Communications Commission Radio Frequency Interference Statement includes the following warning:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product.

Declaration of conformity for products Marked with FCC Logo

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The party responsible for product compliance:

SAMSUNG ELECTRONICS CO., LTD
America QA Lab of Samsung
85 West Tasman Drive
San Jose, CA 95134 USA
Tel) 408-544-5124
Fax) 408-544-5191

Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating. For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6-15P type (tandem blades) plug cap.

IC Compliance Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations of ICES-003.

Cet appareil Numérique de classe B respecte toutes les exigences du Règlement ICES-003 sur les équipements produisant des interférences au Canada.

MPR II Compliance

This monitor complies with SWEDAC(MPR II) recommendations for reduced electric and magnetic fields.

European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN55022 (CISPR 22) – Radio Frequency Interference
- EN50082-1 : 1992 – Electromagnetic Immunity
- EN60555-2 (IEC555-2) – Power Line Harmonics
- EN60555-3 (IEC555-3) – Voltage Fluctuations
- EN60950 (IEC950) – Product Safety.

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"As an ENERGYSTAR® Partner, SAMSUNG has determined that this product meets the ENERGYSTAR® guidelines for energy efficiency."