



## TABLE OF CONTENTS

### 17B2402H

#### GETTING STARTED

INTRODUCTION .....	1
SAFETY .....	1
DESCRIPTION OF CONTROLS .....	2-3
SETTING UP GUIDE .....	FOLDOUT

#### HOW TO USE THE ON SCREEN DISPLAY

##### FRONT PANEL CONTROLS

CONTRAST .....	4
BRIGHTNESS .....	4
MAIN MENU .....	
DEGAUSS .....	5
MONITOR STATUS .....	5

##### MAIN MENU / ADVANCED CONTROLS WINDOW

POWER SAVING .....	6
LANGUAGE .....	6
OSD TIMER .....	7
MOIRE .....	7

##### MAIN MENU / COLOR TEMPERATURE WINDOW

9300° K .....	8
6500° K .....	8
USER 1 .....	9
USER 1 .....	9

##### MAIN MENU / GEOMETRY WINDOW

ROTATION .....	10
----------------	----

PINCUSHION .....	10
TRAPEZOID .....	10
BALANCED PINCUSHION .....	10
PARALLELOGRAM .....	10

##### MAIN MENU / SIZE & POSITION WINDOW

ZOOM .....	11
HORIZONTAL POSITION .....	11
HORIZONTAL SIZE .....	11
VERTICAL POSITION .....	12
VERTICAL SIZE .....	12

##### MAIN MENU / SAVE & CANCEL ..... 13 |

##### MAIN MENU / EXIT OSD & RESET ..... 13 |

#### ADDITIONAL INFORMATION

AUDIO & USB SET UPS .....	14
POWER SAVING FEATURE .....	15
GLOSSARY .....	15
PIN ASSIGNMENT .....	16
SPECIFICATIONS .....	16
INDEX .....	16
TROUBLESHOOTING .....	17
WARRANTY .....	36

### OTHER LANGUAGE VERSION

FRENCH (FRANCAIS) .....	18
-------------------------	----

### APPENDIX

ENGLISH	Information for Users in the U.S. ....	A1
	FCC DECLARATION .....	A2
	Energy Declaration .....	A3
	TCO'99 .....	A4-A5
DEUTSCH	Hinweis / GS / ACHTUNG .....	A6
FRANCAIS	FCC DECLARATION .....	A7
Dansk	ADVARSEL .....	A8
Norsk	ADVARSEL .....	A8
Svenska	VARNING .....	A8
Suomi	VARNING .....	A8

BECAUSE OF CONTINUOUS PRODUCT IMPROVEMENTS,  
THE INFORMATION MENTIONED IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.



## Introduction

The Philips 107B color monitor displays sharp and brilliant images of text and graphics with a maximum resolution of 1600x1200 pixels. It is optimal for Windows, CAD / CAM / CAE, desktop publishing, spread sheets, multi-media, and any other application that demands a large screen size and high resolutions.

The monitor automatically scans horizontal frequencies from 30KHz to 86KHz, and vertical frequencies from 50Hz to 160Hz. With microprocessor-based digital-controlled circuitry and On Screen Display (OSD) controls, the monitor can automatically adjust itself to the video card's scanning frequency and can display an image with the precise parameters you desire.

## Features

- An anti-glare, anti-static, anti-reflection, high-contrast screen coating eliminates any bad effects caused by room light reflecting on and dust attracted to the screen's surface.
- With the Color Adjustment feature, you can easily choose different preset color temperatures or set your own customized color parameters.
- The Image Tilt Adjustment feature corrects a rotated image. This adjustment compensates for the distortions caused by elements such as the Earth's magnetic field.
- The full-size feature expands the image on the monitor to fill the screen when used in factory preset modes.

- USB upstream port at the back of the monitor is prepared for the Universal Serial Bus hub. The USB hub is an accessory that may be purchased from your local Philips dealer.
- Green Design – including automatic power saving function (NUTEK) and low-emission compliance
- DDC1 / DDC2B allows communication between the monitor and the PC for optimal video configuration.
- Moire Cancellation eliminates diffraction, a fringe pattern in the picture.

**NOTE:** Your monitor operates according to the VESA-standard DDC level 1 / 2B. Only computers that support the same guidelines and operate at an equal or higher level can use this feature. If your computer does not support the relevant guidelines, you can still use your monitor and computer. However, you may need to manually specify the appropriate resolution in the computer.

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



Contact us at our web site: <http://www.monitors.be.philips.com>

## Safety precautions and maintenance

- Unplug the monitor, if you are not going to use it for an extended period of time.
- Unplug the monitor, if you need to clean it with a slightly damp cloth. Wiping the screen with a dry cloth is okay when the power is disconnected. However, never use alcohol or ammonia-based liquids.
- Consult a service technician if the monitor does not operate normally when following the instructions in this manual.
- The back cover should be removed only by qualified service personnel.
- Keep the monitor out of direct sunlight and away from stoves or any other heat source.
- The top of the monitor is not a shelf. Remove any object that could fall into the vents or prevent proper cooling of the monitor's electronics.

- Keep the monitor dry. To avoid electric shock, do not expose it to rain or excessive moisture.
- Keep the monitor away from magnetic objects, such as speakers, electric motors, transformers, etc.
- When positioning the monitor, make sure the power plug and outlet are easily accessible.

## End-of-life disposal

Your new monitor contains materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount to be disposed of.

Please find out about the local regulations on how to dispose of your old monitor.

ENERGY STAR is a U.S. registered mark.

IBM, IBM PC, and Power PC are registered trademarks of International Business Machines Corporation.  
Apple, Macintosh, Quadra, Performa, and Centris are registered trademarks of Apple Computer, Inc.



## DESCRIPTION OF CONTROLS

### **BRIGHTNESS Button**

Press the button to adjust the screen's brightness.

**LED** – Light Emitting Diode turns green when the monitor is on and at full power.

### **CONTRAST Button**

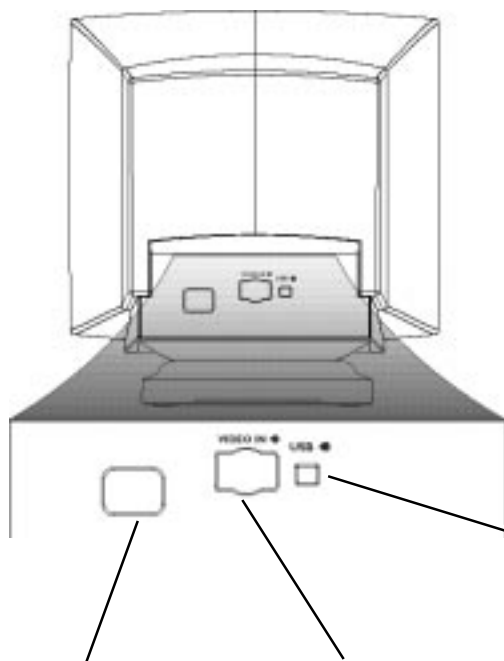
Press this button to adjust the screen's contrast.

**POWER Button** – Turns the electricity On and Off.

**"-" Button** – Press this button to scroll the highlight up.

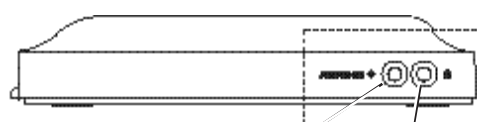
**"+" Button** – Press this button to scroll the highlight down.

**ON SCREEN DISPLAY (OSD) Button** – Brings up the On Screen Display and helps you navigate through it.



**POWER Plug** – Plug the power cord in here. See foldout for details.

**VIDEO In Jack** – One end of the cable is already connected here. The other end connects to the computer. See foldout for details.



**AUDIO IN JACK**

**EARPHONES JACK**

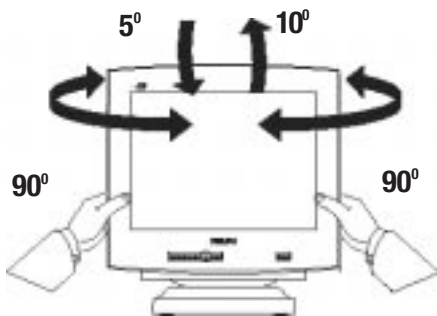
See Page 14 for more details.

**USB upstream port** – One end of USB cable is connected here. The other end connects to PC or USB hub. You can buy USB hub from your local Philips dealer.

## DESCRIPTION OF CONTROLS



### PEDESTAL



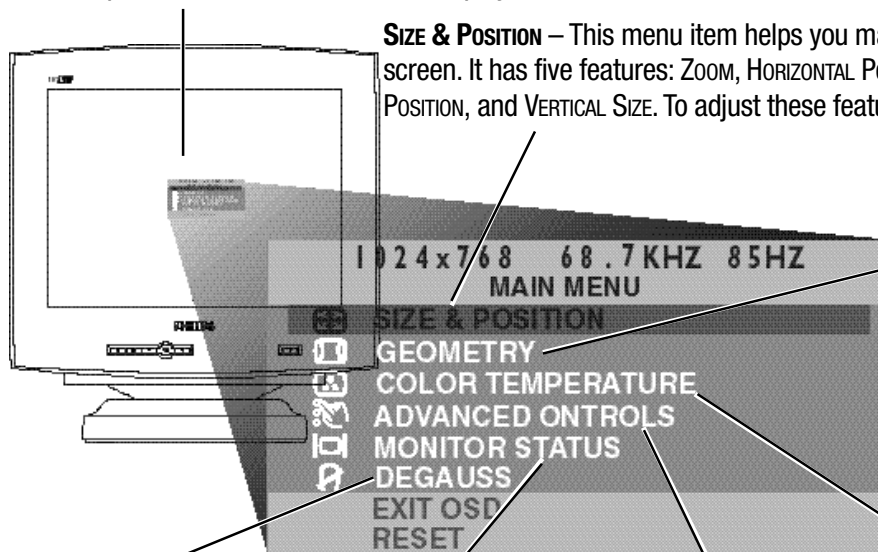
**PEDESTAL** – With the built-in pedestal, you can tilt and swivel the monitor to the most comfortable viewing angle. To best use your monitor, always place it at eye level.

### FRONT PANEL BUTTONS



**USING THE FRONT PANEL BUTTONS** – Select one of front panel buttons, then press "-" or "+" button to make the adjustment or select an additional feature. To adjust a particular feature, see the page for that feature. *For example, Contrast is on page 4.*

**ON SCREEN DISPLAY** – Your monitor is preset at the factory. However, you can adjust it using the ON SCREEN DISPLAY button and the "+" or "-" BUTTON described on page 2. The way to do so is through the On Screen Display (OSD). Below is a brief description of the seven On Screen Display windows.



**SIZE & POSITION** – This menu item helps you maximize the position of your screen. It has five features: ZOOM, HORIZONTAL POSITION, HORIZONTAL SIZE, VERTICAL POSITION, and VERTICAL SIZE. To adjust these features, turn to pages 11- 12.

**GEOMETRY CONTROLS** – This menu item has five features: PINCUSHION, BALANCED PINCUSHION, TRAPEZOID, PARALLELOGRAM, and ROTATION. To adjust these features, turn to page 10.

**DEGAUSS** – Demagnetizes your screen. If color splotches or impurities appear on your screen, you may want to try this. For details, see page 5.

**MONITOR STATUS** – Lists the current vertical and horizontal scanning frequencies and tells you the serial number of the monitor. For details, see page 5.

**ADVANCED CONTROLS** – This menu item has six features: POWER SAVING, LANGUAGE, OS TIMER, and MOIRE. To adjust these features, turn to pages 6-7.  
*Note: LANGUAGE allows you to change the On Screen Display from English to French, Spanish, German, or Italian. See page 6 for details.*

**COLOR TEMPERATURE** – Select the temperature setting for the best color for your work. You can even customize your color settings. There are four selections: 9300° K, 6500° K, USER 1, and USER 2. For details, turn to pages 8-9.

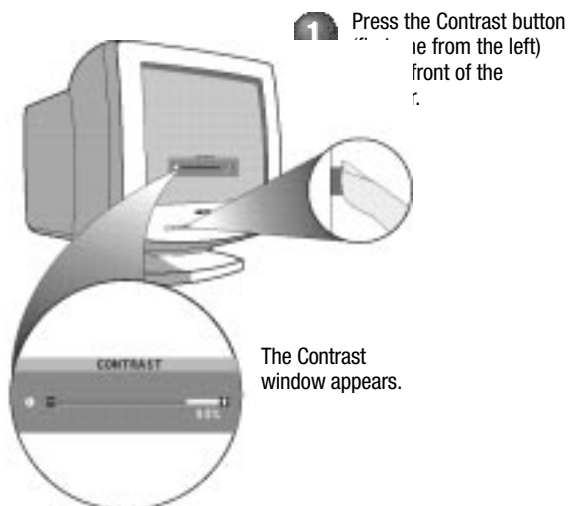


## HOW TO USE THE ON SCREEN DISPLAY (OSD)

### FRONT PANEL CONTROLS

#### CONTRAST

- 1** To adjust your screen's contrast, follow the steps below. Contrast is the difference between the light and dark areas on the screen. A 100% contrast level is recommended.



- 2** Press "-" or "+" button to adjust the contrast.



- 3** When finished, press the CONTRAST button again. The Contrast screen disappears.



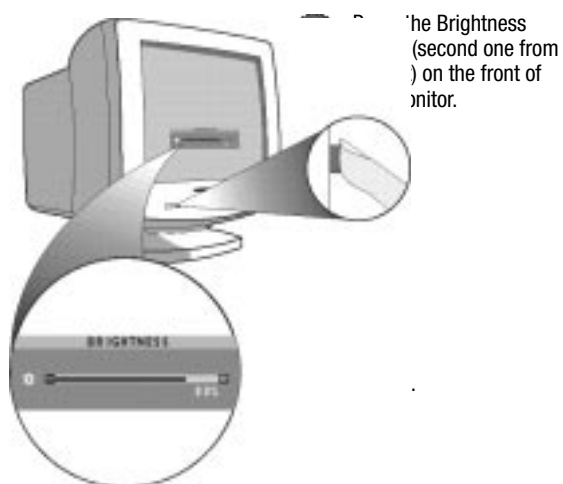
#### SMART HELP

**To continue to Brightness**, press the BRIGHTNESS button on the front of the monitor. Next, follow steps 2 - 3 under BRIGHTNESS.

**If you do not press the CONTRAST button a second time**, the Contrast window will "time out" (disappear) after five seconds. You can change this time. See page 7 for time out options.

#### BRIGHTNESS

- 1** To adjust your screen's brightness, follow the steps below. Brightness is the overall intensity of the light coming from the screen. A 50% brightness level is recommended.



- 2** Press "-" or "+" button to adjust the brightness.



- 3** When finished, press the BRIGHTNESS button again. The Brightness screen disappears.



#### SMART HELP

**If you do not press the BRIGHTNESS button a second time**, the Brightness window will "time out" (disappear) after five seconds. You can change this time. See page 7 for time out options.

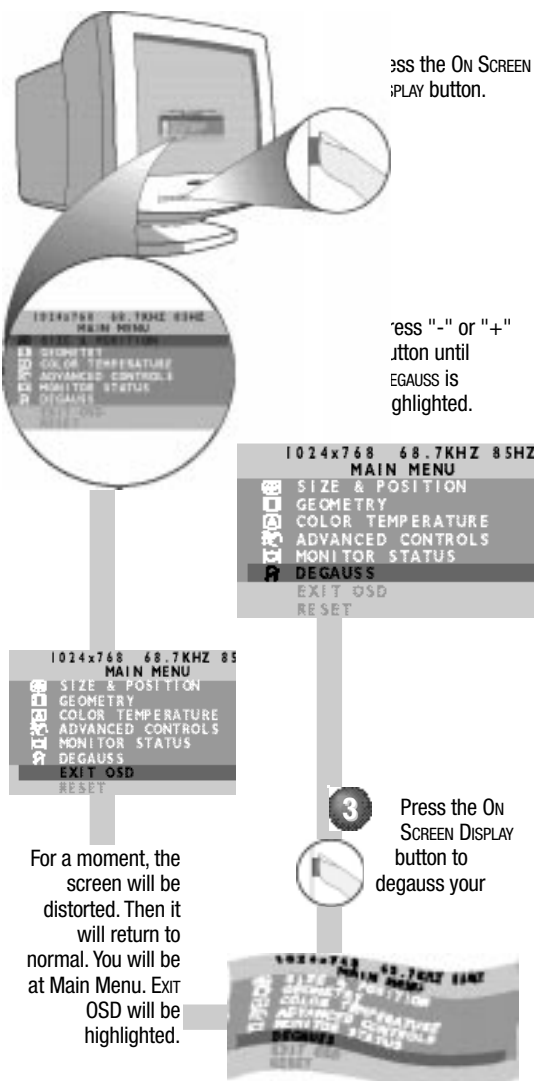
# HOW TO USE THE ON SCREEN DISPLAY (OSD)

## MAIN MENU WINDOWS



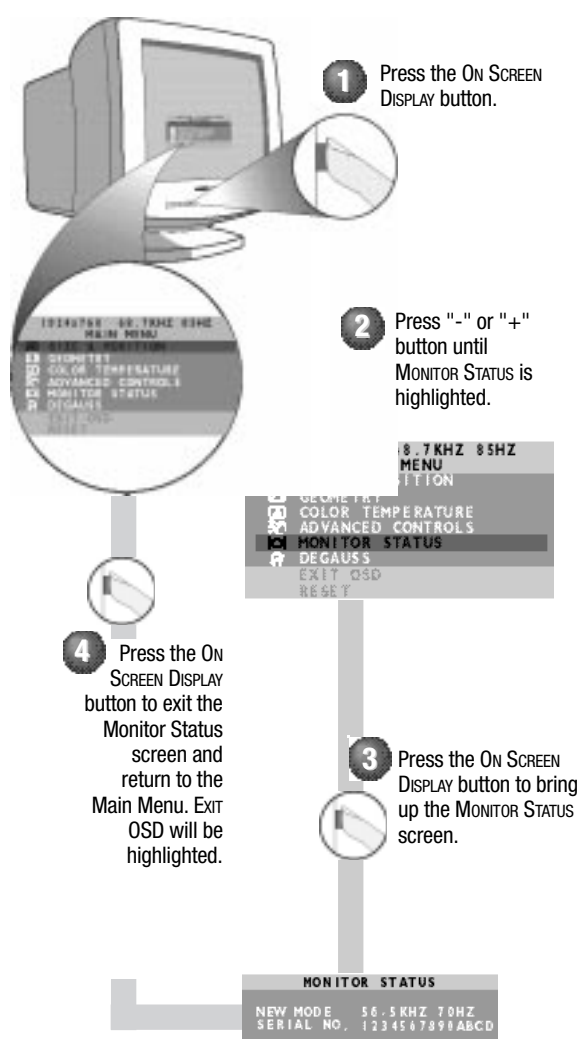
### DEGAUSS

**A** Degaussing removes electromagnetic build up that may distort the color on your screen. To degauss your screen, follow the steps below.



### MONITOR STATUS

**B** Monitor Status tells you the vertical and horizontal scanning frequencies that your computer is using to operate your monitor. It also tells you the serial number of your monitor. *Note: This screen is for review only.*



### SMART HELP

#### After returning to the Main Menu ...

... to continue to **MONITOR STATUS**, press "+" or "-" button until **MONITOR STATUS** is highlighted. Next, follow steps 2 - 3 under **MONITOR STATUS** in the next column.

... to exit completely, press the OSD button.

### SMART HELP

#### After returning to the Main Menu ...

... to continue to **ADVANCED CONTROLS**, press "+" or "-" button until **ADVANCED CONTROLS** is highlighted. Next, follow steps 2 - 3 under **ADVANCED CONTROLS** on the next page.

... to exit completely, press the OSD button.

**Note: Neither the scanning frequencies nor the serial number can be changed at this screen. The scanning frequencies are established by your computer. They also appear at the top of the Main Menu screen. The serial number is entered at the factory.**



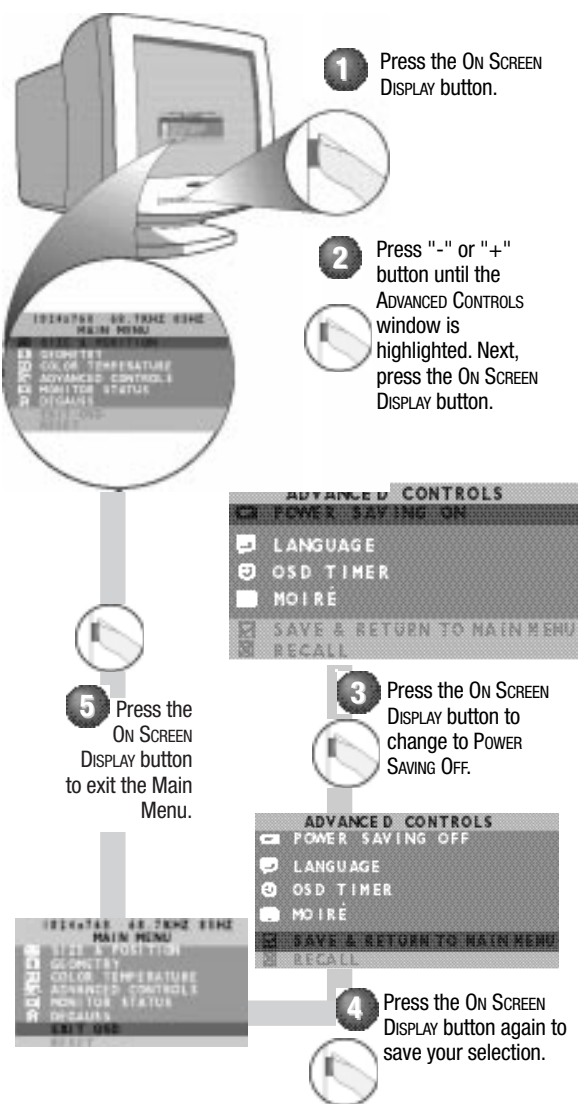


# HOW TO USE THE ON SCREEN DISPLAY (OSD)

## ADVANCED CONTROLS WINDOW

### POWER SAVING

**POWER SAVING** helps save energy when the monitor is on but not being used. After a preset time, the monitor will go blank if not being used. "**POWER SAVING On**" is the default setting. To turn **POWER SAVING Off**, follow the steps below.



### SMART HELP

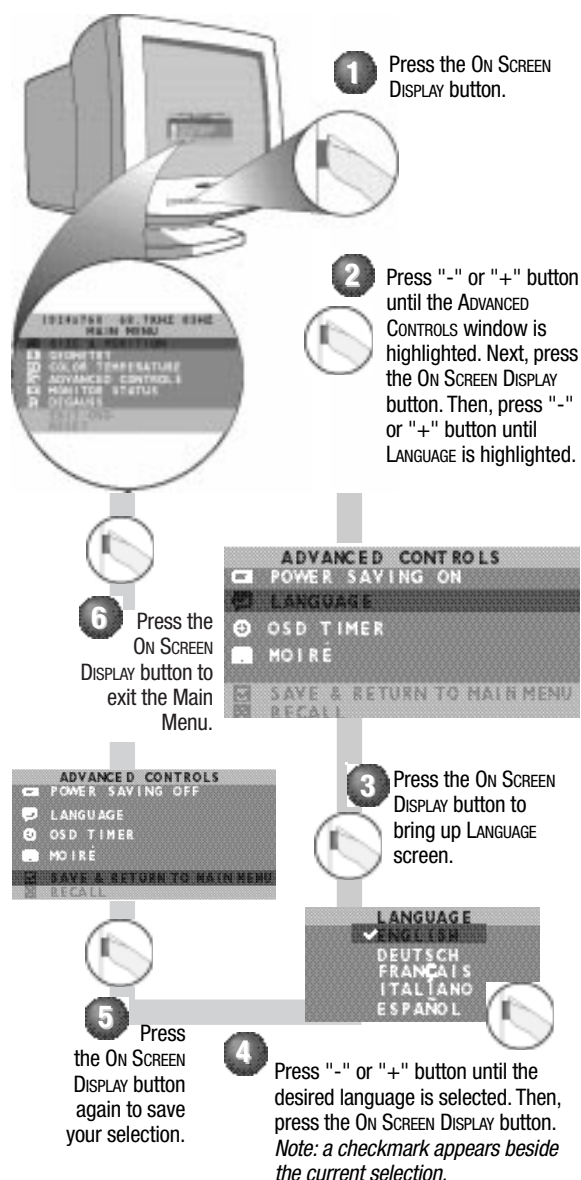
#### To make other changes in the **ADVANCED CONTROLS** window ...

... after returning to **ADVANCED CONTROLS** window [but before pressing the **On Screen Display (OSD)** button in **STEP 4**], press "+" or "-" button until another feature – for example, **LANGUAGE** – is highlighted. Next, follow steps 2 - 6 under **LANGUAGE**.

... after you have exited completely, press the **OSD** button and follow the steps under that feature, for example, **LANGUAGE**.

### LANGUAGE

The **On Screen Display** shows its settings in one of five languages. The default is **English**, but you can select **French**, **Spanish**, **German**, or **Italian**. To select **LANGUAGE**, follow the steps below.



### SMART HELP

#### To make other changes in the **ADVANCED CONTROLS** window ...

... after returning to **ADVANCED CONTROLS** window [but before pressing the **On Screen Display (OSD)** button in **STEP 5**], press "+" or "-" button until another feature – for example, **OSD TIMER** – is highlighted. Next, turn to the next page and follow steps 2 - 5 under **OSD TIMER**.


... after you have exited completely, press the **OSD** button and follow the steps under that feature, for example, **LANGUAGE**.

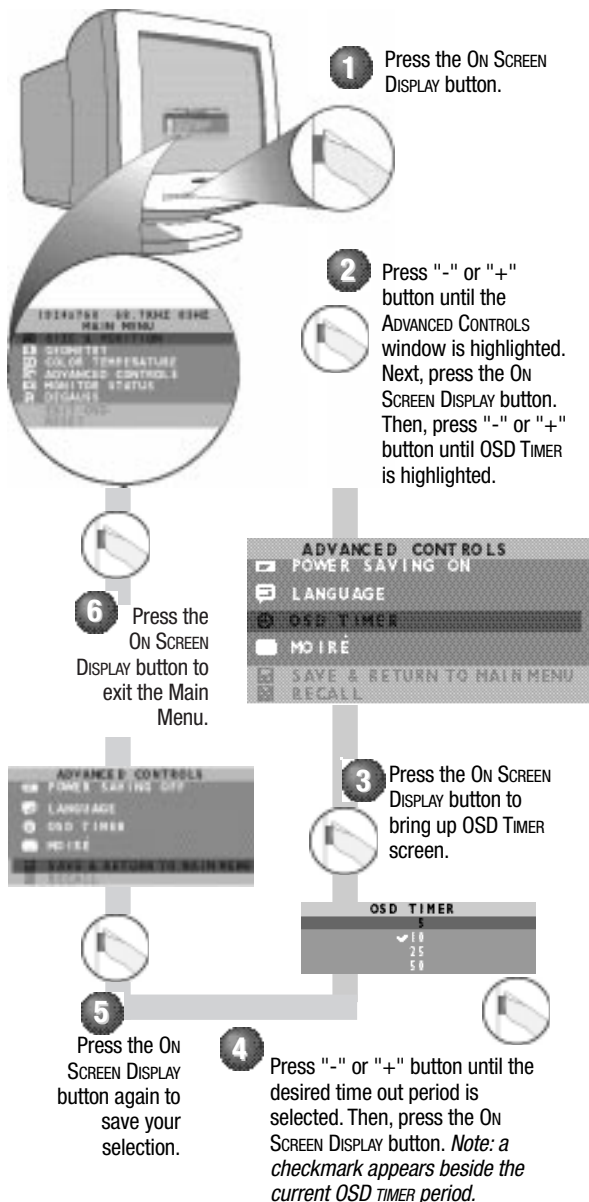
# HOW TO USE THE ON SCREEN DISPLAY (OSD)

## ADVANCED CONTROLS WINDOW



### OSD TIMER

 With OSD TIMER you can set the time for the On Screen Display to time out. Your choices range from 5 to 50 seconds. To select OSD TIMER, follow the steps below. *Note: Ten seconds is the default setting.*




### SMART HELP

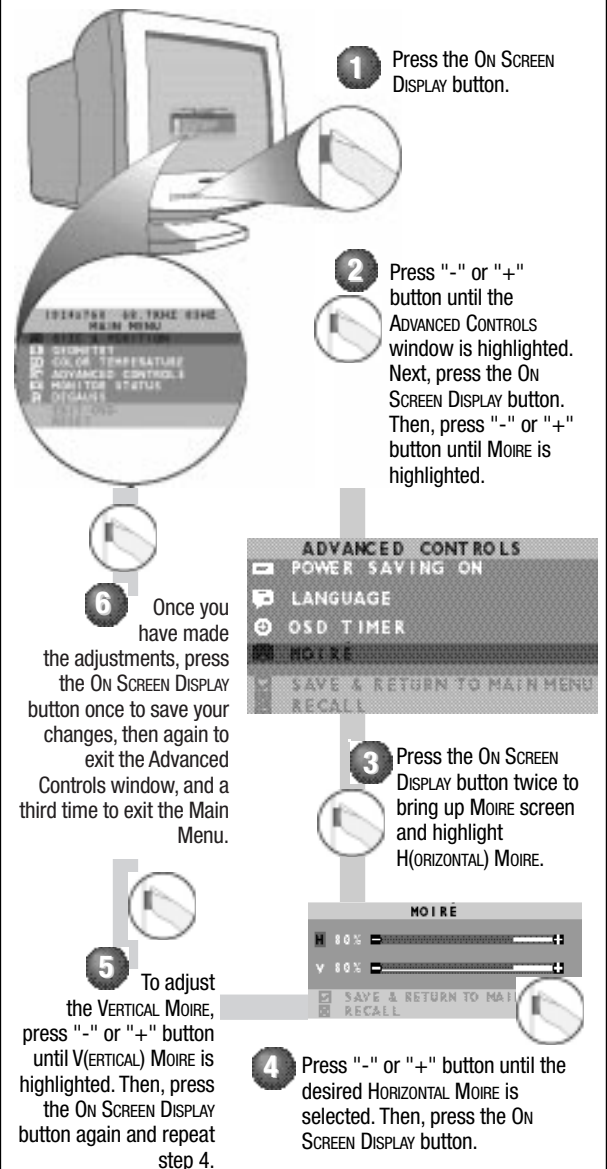
#### To make other changes in the ADVANCED CONTROLS window . . .

. . . after returning to ADVANCED CONTROLS window [but before pressing the On Screen Display (OSD) button in STEP 5], press "+" or "-" button until another feature – for example, MOIRE – is highlighted. Next, turn to the next page and follow steps 2 - 6 under MOIRE.

. . . after you have exited completely, press the OSD button and follow the steps under that feature, for example, MOIRE.

### MOIRE

 Moire is a fringe pattern arising from the interference between two superimposed line patterns. To adjust your Moire, follow the steps below. *Note: Use only if necessary. Activating Moire can affect sharpness.*



### SMART HELP

#### To make other changes in the ADVANCED CONTROLS window . . .

. . . after returning to ADVANCED CONTROLS window [but before pressing the On Screen Display (OSD) button a third time in STEP 6], press "+" or "-" button until another feature – for example, COLOR TEMPERATURE – is highlighted. Next, follow steps 2 - 5 under COLOR TEMPERATURE.

. . . after you have exited completely, press the OSD button and follow the steps under that feature, for example, COLOR TEMPERATURE.



# HOW TO USE THE ON SCREEN DISPLAY (OSD)



## COLOR TEMPERATURE WINDOW

### 9300° K / 6500° K

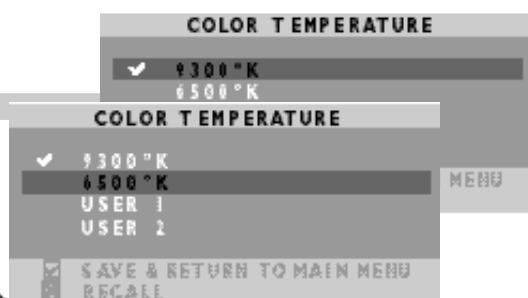
**1** Your monitor has two preset options you select: 9300° K or 6500° K. Computer Aided Design (CAD) usually works best with the 9300° K setting. Desktop Publishing (DTP) usually works best with the 6500° K setting. The screen will change as you scroll between these two settings. Select the one that works best for you, or set up your own setting under USER 1 or USER 2 on the next page.



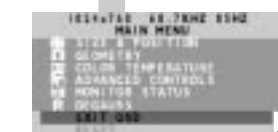
**1** Press the On SCREEN DISPLAY button.



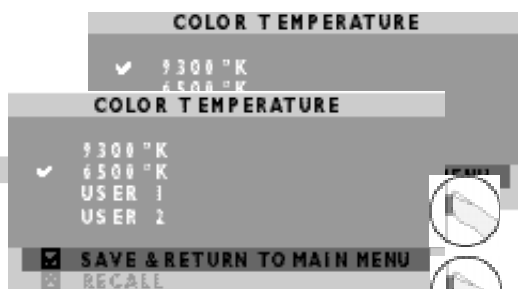
**2** Press "-" or "+" button until the COLOR TEMPERATURE window is highlighted. Then press the On SCREEN DISPLAY button.



**3** Press "-" or "+" button until 9300° K or 6500° K is highlighted. *Note: a checkmark appears beside the current selection.*



**5** After the preset setting is saved, the on screen display automatically returns to the Main Menu. To exit, press the On SCREEN DISPLAY button.



**4** Press the On SCREEN DISPLAY button. A checkmark appears by your selection. Press the On SCREEN DISPLAY button a second time to save your selection.

## SMART HELP

### After returning to Main Menu ...

... to continue to USER 1 or USER 2, press "-" or "+" button until COLOR TEMPERATURE is highlighted. Next, follow steps 2 - 7 under COLOR TEMPERATURE on the next page.

... to select the other preset setting (9300° K or 6500° K), press the OSD button and repeat steps 2 -5.

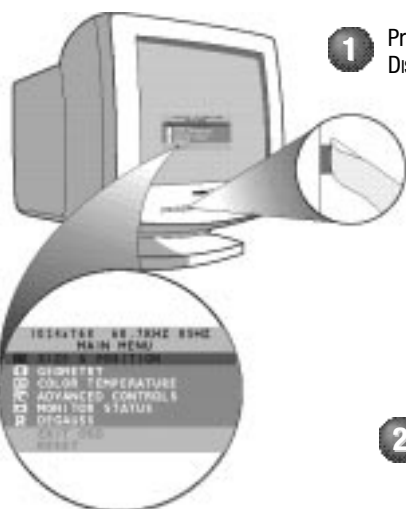


# HOW TO USE THE ON SCREEN DISPLAY (OSD)

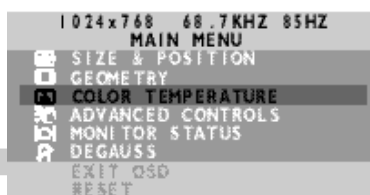
## COLOR TEMPERATURE WINDOW

### USER 1 / USER 2

**1** USER 1 and USER 2 allow you to individually set the mixture of red, green, and blue that establishes the color balance on your monitor's screen. You can set up to two presets, then select between them for different tasks. You can only use one preset at a time



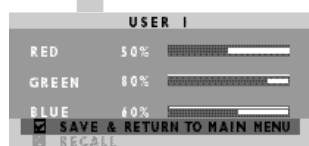
**1** Press the On SCREEN Display button.



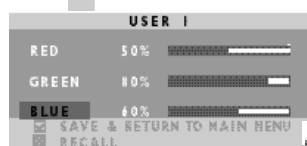
**2** Press "-" or "+" button until the COLOR TEMPERATURE window is highlighted. Next, press the On SCREEN Display button.



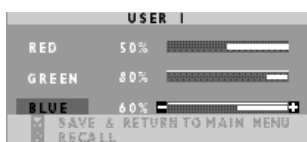
**3** Press "-" or "+" button until User 1 is highlighted. *Note: a checkmark appears beside the current selection.*



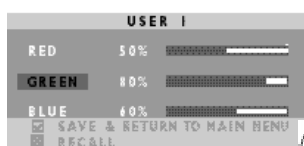
**7** When done with the blue, press the On Screen Display button to save the changes. Next, see SMART HELP below for options.



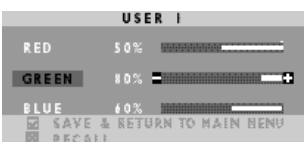
**6** When done with green, press the On Screen Display button. BLUE will be highlighted.



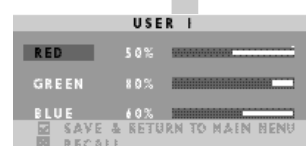
Next, to adjust the blue, press the On Screen Display button again. Then, press "-" or "+" button to increase or decrease the blue.



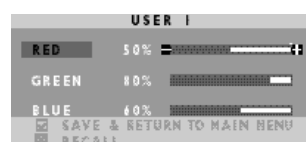
**5** When done with red, press the On Screen Display button. GREEN will be highlighted.



Next, to adjust the green, press the On Screen Display button again. Then, press "-" or "+" button to increase or decrease the green.



**4** First, press the On SCREEN Display button. RED will be highlighted.



Next, to adjust the red, press the On Screen Display button again. Then, press "-" or "+" button to increase or decrease the red.

### SMART HELP

#### After returning to COLOR TEMPERATURE ...

... to continue to USER 2, press "-" or "+" button until User 2 is highlighted. Then, press the On SCREEN Display button and follow steps 4 - 7.

... to continue to the Main Menu, press the On SCREEN Display button once more after completing step 7 above. Now, to select another window from the Main Menu – for example, GEOMETRY – turn to the next page and follow steps 2a - 5c.

... to exit the On SCREEN Display completely, press the On SCREEN Display button twice more after completing step 7 above.

# HOW TO USE THE ON SCREEN DISPLAY (OSD)

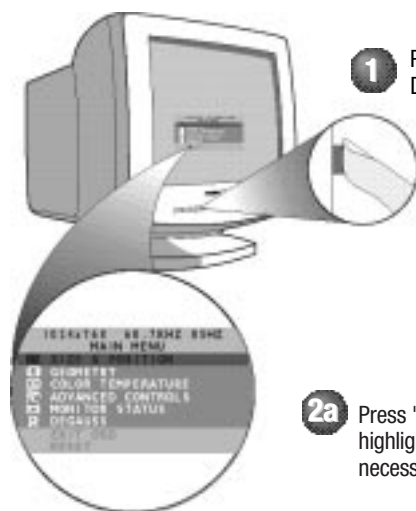
## GEOMETRY WINDOW



### ROTATION, PINCUSHION, TRAPEZOID, BALANCED PINCUSHION, PARALLELOGRAM

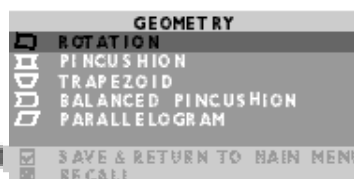


Follow the steps below to adjust any of the five preset options (ROTATION, PINCUSHION, TRAPEZOID, BALANCED PINCUSHION, or PARALLELOGRAM). You can make individual adjustments to each of the preset options. *Note: use these features only when the picture is not square.*

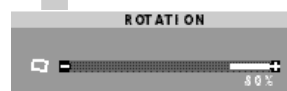


**1** Press the On SCREEN DISPLAY button.

**2a** Press "-" or "+" button until the GEOMETRY window is highlighted. Next, press the On SCREEN DISPLAY button. Then, if necessary, press "-" or "+" until ROTATION icon is highlighted.

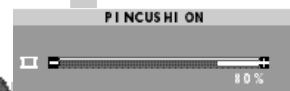


**2b** Press the On SCREEN DISPLAY button. Then, Press "-" or "+" button to adjust the rotation.



**2c** When done, press the On SCREEN DISPLAY button to save the change and return to GEOMETRY window.

**3a** To select PINCUSHION, press "-" or "+" button until PINCUSHION is highlighted. Next, press the On SCREEN DISPLAY button.



**3b** Press "-" or "+" button (on the lower right-hand corner of the monitor) to adjust the pincushion.

**3c** When done, press the On SCREEN DISPLAY button. This will save the change and return the screen to GEOMETRY window.

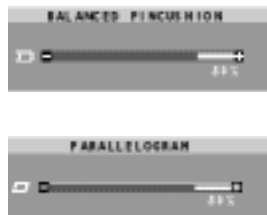
**4a** To select TRAPEZOID, press "-" or "+" button until TRAPEZOID icon is highlighted. Next, press the On SCREEN DISPLAY button.



**4b** Press "-" or "+" button to adjust the trapezoid.

**4c** When done, press the On SCREEN DISPLAY button. This will save the change and return the screen to GEOMETRY window.

**5a** To select BALANCED PINCUSHION or PARALLELOGRAM, press "-" or "+" button until BALANCED PINCUSHION or PARALLELOGRAM icon is highlighted. Next, press the On SCREEN DISPLAY button. Then follow steps 4b and 4c to make the appropriate changes.



## SMART HELP

### To exit GEOMETRY CONTROLS . . .

. . . but continue to another window, press the On SCREEN DISPLAY button when "SAVE" is highlighted. Next, press "-" or "+" button until the desired window – for example – SIZE & POSITION – is highlighted. Now, turn to SIZE & POSITION on the next page and follow the instructions, starting with step 2. . . . completely, press the On SCREEN DISPLAY button twice. The On Screen Display disappears. All changes will be saved.

**To make changes to one item**, follow the steps for that item. Then, follow "To exit GEOMETRY CONTROLS . . ."


**To return to factory presets**, see "To Reset the OSD" on page 13.

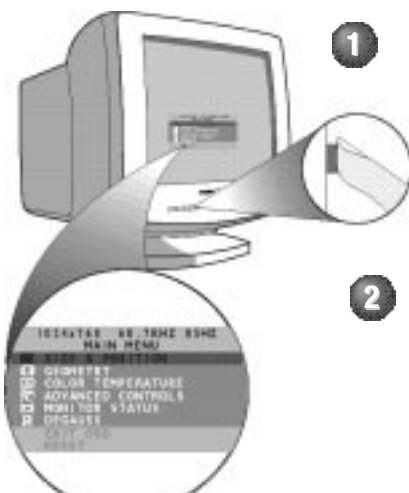


# HOW TO USE THE ON SCREEN DISPLAY (OSD)

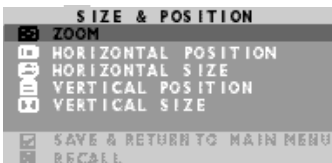
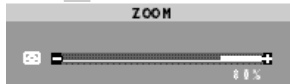
## SIZE & POSITION WINDOW

### ZOOM

 ZOOM allows you to adjust the image on your screen, both enlarging it and reducing its overall size. To zoom your screen in or out, follow the steps below.



- 1 Press the On Screen PLAY button.
- 2 Press "-" or "+" button until Size & Position window is highlighted. Next, press the On Screen DISPLAY button.
- 3 Press the On Screen DISPLAY button to bring up ZOOM screen.
- 4 Press "-" or "+" button to adjust the zoom. *Note: the screen expands or contracts as you adjust "-" or "+" button.*
- 5 When you are done, press the On Screen DISPLAY button.
- 6 Press the On Screen DISPLAY button to add your change and return to the Main Menu. Press again to exit. See below for other options.


### SMART HELP

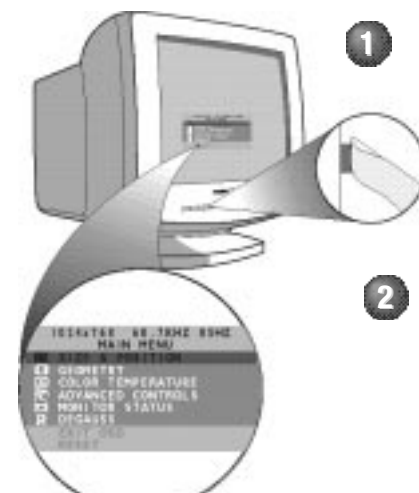
#### To make other changes in the SIZE & POSITION window . . .

... after returning to the SIZE & POSITION window [but before press the On Screen Display (OSD) button in step 6], press "-" or "+" button until another feature – for example, HORIZONTAL POSITION – is highlighted. Next, follow steps 2 - 6 under HORIZONTAL POSITION.

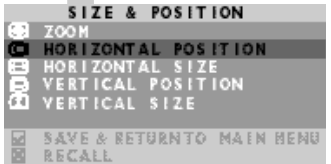
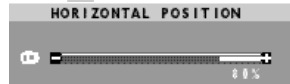
... after you have exited completely, press the OSD button and follow the steps under that feature, for example, HORIZONTAL POSITION.

### HORIZONTAL POSITION

 HORIZONTAL POSITION shifts the image on your screen either to the left or right. Use this feature if your image does not appear centered.



- 1 Press the On Screen PLAY button.
- 2 Press "-" or "+" button until Size & Position window is highlighted. Next, press the On Screen DISPLAY button. Then, press "-" or "+" button until HORIZONTAL POSITION is highlighted.
- 3 Press the On Screen DISPLAY button to bring up HORIZONTAL POSITION screen.
- 4 Press "-" or "+" button to adjust the horizontal position. *Note: the screen shifts left or right as you turn "-" or "+" button.*
- 5 When you are done, press the On Screen DISPLAY button.
- 6 Press the On Screen DISPLAY button to add your change and return to the Main Menu. Press again to exit. See below for other options.

### SMART HELP

#### To make other changes in the SIZE & POSITION window . . .

... after returning to the SIZE & POSITION window [but before press the On Screen Display (OSD) button in step 6], press "-" or "+" button until another feature – for example, HORIZONTAL SIZE – is highlighted. Next, follow steps 2 - 6 under HORIZONTAL SIZE.

... after you have exited completely, press the OSD button and follow the steps under that feature, for example, HORIZONTAL SIZE.

# HOW TO USE THE ON SCREEN DISPLAY (OSD)

## SIZE & POSITION WINDOW



### HORIZONTAL SIZE

**H** HORIZONTAL Size expands or contracts the image on your screen, pushing it out toward the left and right sides or pulling it in toward the center.

- 1 Press the On Screen Display button.
- 2 Press "-" or "+" button until Size & Position window is highlighted. Next, press the On Screen Display button. Then, press "-" or "+" button until HORIZONTAL Size is highlighted.
- 3 Press the On Screen Display button to bring up the HORIZONTAL Size screen.
- 4 Press "-" or "+" button to adjust the horizontal size. *Note: the screen expands or contracts as you turn "-" or "+" button.*
- 5 When you are done, press the On Screen Display button.
- 6 Press the On Screen Display button to add your change and return to the Main Menu. Press again to exit. See below for other options.

### VERTICAL POSITION VERTICAL SIZE

**V** VERTICAL POSITION adjusts the image on your screen either up or down. Use this feature if your image does not appear centered. VERTICAL Size expands or contracts the image on your screen, pushing it out toward the top and bottom or pulling it in toward the center.

- 1 Press the On Screen Display button.
- 2 Press "-" or "+" button until Size & Position window is highlighted. Next, press the On Screen Display button. Then, press "-" or "+" button until VERTICAL Position or VERTICAL Size is highlighted.
- 3 Press the On Screen Display button to bring up the VERTICAL Position or VERTICAL Size screen.
- 4 Press "-" or "+" button until the image is vertically balanced or the vertical size you want.
- 5 When you are done, press the On Screen Display button.
- 6 Press the On Screen Display button to add your change and return to the Main Menu. Press again to exit. See below for other options.

#### SMART HELP

##### To make other changes in the Size & Position window . . .

. . . after returning to the Size & Position window [but before press the On Screen Display (OSD) button in step 6], press "-" or "+" button until another feature – for example, VERTICAL POSITION – is highlighted. Next, follow steps 2 - 6 under VERTICAL POSITION.

. . . after you have exited completely, press the OSD button and follow the steps under that feature, for example, VERTICAL POSITION.

#### SMART HELP

##### To make other changes in the Main Menu . . .

. . . after returning to the Main Menu [but before press the On Screen Display (OSD) button a second time in step 6], press "-" or "+" button until another feature is highlighted. Next, turn to the page for that feature and follow the steps.

. . . after you have exited completely, press the OSD button and follow the steps under that feature.





# HOW TO USE THE ON SCREEN DISPLAY (OSD)

## SAVE, RECALL, EXIT OSD, AND RESET

### SAVE & RECALL FROM A WINDOW

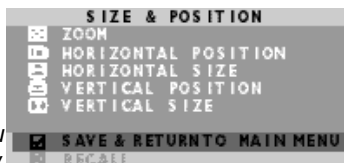
There are three ways to save your changes: by pressing the Front Panel Button, by selecting **SAVE** from the On Screen Display, or by letting the On Screen Display time out. Each method saves the changes you have made in a particular window.

- For example, to make a change in the brightness, press the **BRIGHTNESS** button on the front panel, make your change, then press the **BRIGHTNESS** button again. (See page 4 for details.) You can also let the display time out and the change will be saved. Note: Brightness and Contrast do not have a **SAVE** menu selection.



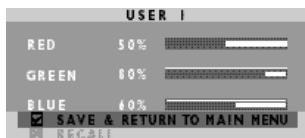
To recall a change made in the **Brightness and Contrast** windows individually, you must reenter each window and change the setting.

- In some windows (**SIZE & POSITION** and **GEOMETRY**), you can save all your changes at once. In the **SIZE & POSITION** window, you can make changes to each of the five items. When you are done, highlight the **SAVE** item and press the **ON SCREEN DISPLAY** button. (See pages 11 - 12 for details.) You can also let the display time out and the change will be saved.



To recall a change made in the **SIZE & POSITION** window, you can select **RECALL** from the On Screen Display. If you have made a change to only one item – for example, **Zoom** – then only **Zoom** will be changed back to the previous setting. If more than one item has been changed, but not saved individually, then all the items changed will be returned to their previous settings. For example, if you made changes to **Zoom**, **HORIZONTAL SIZE**, and **VERTICAL POSITION** and did not save them individually, all three will be changed back when you select **RECALL**.

- In some windows (**ADVANCED CONTROLS** and **COLOR TEMPERATURE**), only individual saves are possible. For example, in the **COLOR TEMPERATURE** window, if you select **User 1** and make changes (See page 9 for details.), you must either save or cancel those changes before moving on. While you could wait for the **User 1** window (below) to time out, it is not recommended. Since you have not formally saved this change as your selection, the next time you go into the **COLOR TEMPERATURE** window, the screen will change to selection (**User 1**, **User 2**, **9300° K**, or **6500° K**) last stored by using **SAVE**. A checkmark appears beside that selection.



To recall a change made in **COLOR TEMPERATURE** (or **ADVANCED CONTROLS**), select **RECALL** from the on screen display. Only the last item changed will be changed back. All other items will remain unchanged.

### EXIT OSD & RESET FROM THE OSD

Exiting from the On Screen Display removes the On Screen Display from the monitor screen. Resetting from the On Screen Display returns everything in all the windows to factory presets.

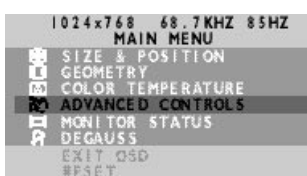
#### TO EXIT THE ENTIRE ON SCREEN DISPLAY

- When you have finished work in any of the windows of the Main Menu, you will return to the Main Menu and **EXIT OSD** will be highlighted. To exit, simply press the **ON SCREEN DISPLAY** button.



You can, however, press "-" or "+" button and scroll to another menu item, for example, **ADVANCED CONTROLS**.

When **ADVANCED CONTROLS** is highlighted, press the **ON SCREEN DISPLAY** button and that window will replace the Main Menu.

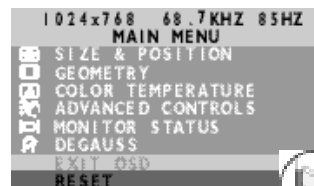


You can now make changes in that window. When done, you will, again, return to the Main Menu and **EXIT OSD** will be highlighted

#### RESET ENTIRE ON SCREEN DISPLAY

- Selecting **RESET** from the Main Menu resets **all** the changes you have made in **all** the windows of the Main Menu. For example, if the language (See **LANGUAGE**, page 6.) has been changed, it is taken back to English.

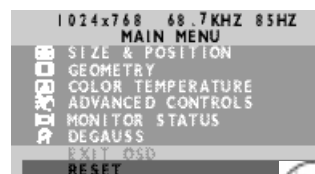
**Use this feature only when you want to return all your changes back to their original settings.**



### EXITING BRIGHTNESS & CONTRAST

If you push the **BRIGHTNESS**, or **CONTRAST** button to exit (See steps 3 on pages 4.) and find yourself in the Main Menu, follow the steps below.

- Press "-" or "+" button until **Exit OSD** is selected, then press the **ON SCREEN DISPLAY** button.



- Always exit the **BRIGHTNESS** or **CONTRAST** On Screen Displays by pressing the **BRIGHTNESS** or **CONTRAST** button (steps 3 on page 4).

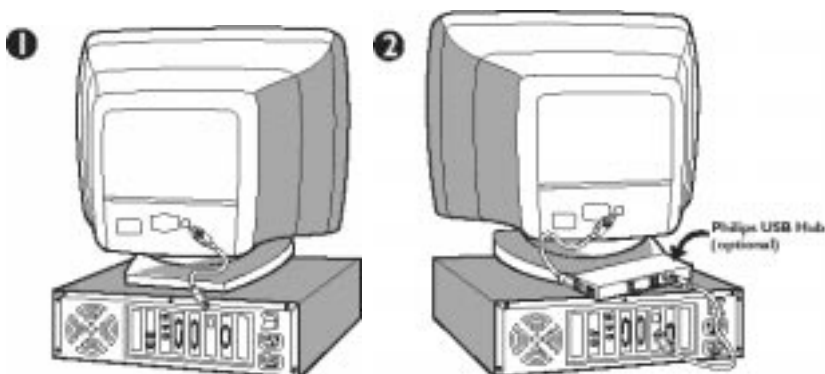


## USB

USB (Universal Serial Bus) is an innovation in connecting your IBM-compatible computer to your monitor. By using the USB, you will be able to connect your keyboard, mouse, printer, and other peripherals to your monitor instead of having to connect them to your computer. This will give you greater flexibility in setting up your system. Plus, you will have true plug-and-play capability. You can purchase USB hub from your local Philips dealer.

### For an IBM-compatible Computer:

1. Turn off the computer.
2. Connect the USB cable to the computer and to the monitor. (Computer must have a USB port.) (See diagram 1)
3. Refer to diagram 2 if you have Philips USB hub.
4. Connect the power cable.
5. Turn on the monitor. Then turn on the computer.
6. With the installation of the correct software, you will be able to connect specially-made peripherals to the monitor.

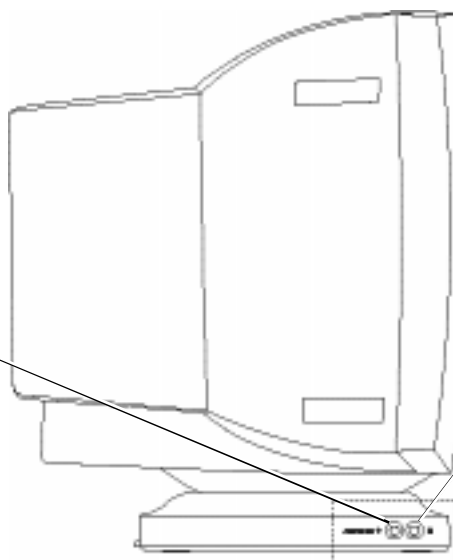


**Note:** You can buy Philips USB hub from Philips local dealer.

Refer to the "Setting Up your Philips monitor" foldout for a more detailed guide to setting up your monitor.

## AUDIO (PASS THROUGH)

**AUDIO IN JACK** - Connect the supplied audio cable to send sound from a computer or amplifier to speakers.



**AUDIO OUT JACK** - Plug in earphones or speakers here.



## ADDITIONAL INFORMATION

### POWER SAVING FEATURE / GLOSSARY

#### AUTOMATIC POWER SAVINGS & PRESET RESOLUTION MODES

If you have VESA's DPMS compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. If input from a keyboard, mouse, or other device is detected, the monitor automatically "wakes up." The table at left shows the power consumption and signalling of this automatic power-saving feature. To turn this feature on and off, see page 6. The table at right shows the 9 factory preset resolution modes. The maximum number of modes is 22. This leaves room for additions.

Power Management Definition						
VESA's mode	Video	H-sync	V-sync	Power used	Power saving(%)	LED color
ON	Active	Yes	Yes	< 85W	0%	Green
Stand-by	Blanked	No	Yes	< 15W	86%	Yellow
Suspend	Blanked	Yes	No	< 15W	86%	Yellow
OFF	Blanked	No	No	< 5W	95.6%	Amber

This monitor is ENERGY STAR® compliant.



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

The proper operation of the function requires a computer with VESA DPMS power management capabilities. When used with a computer equipped with VESA DPMS, the monitor is ENERGY STAR® compliant.

Factory Preset Resolution Modes				
MODE	RESOLUTION	H. FREQ. (KHz)	V. FREQ. (Hz)	STANDARD
1	640 x 400	31.5	70	VGA
2	640 x 480	31.5	60	VGA
3	640 x 480	43.3	85	VESA/85
4	800 x 600	46.9	75	VESA/75
5	800 x 600	53.7	85	VESA/85
6	1024 x 768	60	75	VESA/75
7	1024 x 768	68.7	85	VESA/85
8	1280 x 1024	80.0	75	VESA
9	1280 x 960	86.0	85	VESA

#### GLOSSARY

Here are a few definitions that may help you.

Brightness	Refers to how light or dark the overall screen is.
Color Temperature	A term used to refer to the color balance, uniformity, and saturation settings on your monitor screen. Color (even white, gray, and black) on your screen is achieved by blending (or balancing) three primary colors: red, green, and blue. As you increase or decrease any one of these colors, the color temperature changes. For example, at 9300° K, you are using more blue in your color temperature; therefore, your screen will be saturated with more blue and should appear uniformly "bluer" from one side of the screen to the other. At 6500° K, you are using more red in your mixture. True color balance is achieved when a gray object shows no traces of either red, green, or blue, regardless of the brightness of the image.
Contrast	Refers to the sharpness of objects on the screen and the ability to easily distinguish one from the other.
Degauss	The process by which metal parts of the screen are demagnetized in order to reduce screen distortion and color impurity.
DDC	(Display Data Channel) is a signaling standard established to help the performance of personal computers. In order to use this function, your computer must be designed for DDC. There are several types of DDC. Most computer monitors are designed for DDC1 and DDC2 Level B (DDC1/2B).
Geometry	A set of controls that allows you to adjust the alignment of the picture on the monitor screen. The goal is to "square up" the picture. This is done by adjusting such items as balanced pincushion, pincushion, parallelogram, rotation, and trapezoid.
Moire	A fringe pattern caused by the interference between two superimposed line patterns.
Noise	Term used to refer to interference with the monitor's picture.
USB	Universal Serial Bus. A way to connect your IBM-compatible computer, monitor, and peripherals for true Plug-and-Play functions. This is an emerging technology.

# ADDITIONAL INFORMATION

## COMING TO TERMS WITH THIS BOOK



### INDEX

6500° K	8
9300° K	8
Automatic Power Saving	6
Balanced Pincushion	10
Brightness	4
Cancel	13
Color Temperature	3, 8-9
Contrast	4
Degauss	5
Description of controls	2, 3
DTP	8
End-of-life disposal	1
Exit OSD	13
Features	1
Geometry Controls	3, 10
Glossary	15
Hook Ups	Setup Guide, 14
Horizontal Position	11
Horizontal Size	12
Language	6
LED	2
Main Controls	3, 3-4
Maintenance	1
Moire	7
Monitor cable plug	2
Monitor Status	5
On Screen Display	2
OSD button	2
Parallelogram	10
Pedestal	2
Pin Assignment	16
Pincushion	10
Power button	Setup Guide, 2
Power plug	Setup Guide, 2
Power Saving	6
Reset	13
Resolution Modes	14
Rotation	10
Safety precautions	1
Save	13
Size & Position	3, 11-12
Specifications	16
Trapezoid	10
Troubleshooting	Setup Guide, 17
USB hub	2, 14
USB set up	14
User 1, User 2	9
Vertical Position	12
Vertical Size	12
Video Input	11
Warranty	36
Zoom	11

### SPECIFICATIONS

#### GENERAL

##### CRT

Screen size	:17" (43.2 cm) flat & square
Viewable Image Size (VIS)	:16.0"
Focusing method	:Dynamic focus
Dot pitch	:0.22 mm (horizontal)
Phosphor	:P22 or equivalent, medium short persistence
Screen treatment	:Anti-glare, anti-static

##### Display area

Factory preset	:306 mm (H) x 230 mm (V)
Maximum usable	:326.2 mm (H) x 243.6 mm (V)

##### Scanning frequency

Horizontal (line)	:30-86kHz (AutoScan)
Vertical (frame)	:50-160 Hz (AutoScan)

##### Input power

	:100 - 240 V AC, 50 - 60 Hz
--	-----------------------------

##### Power consumption

	:85 Watt
--	----------

##### Thermal dissipation

	:290.1 BTU
--	------------

##### Input signal

Sync	:Separate sync. TTL Composite sync. TTL level
------	--

##### Pedestal

Tilt	:5° forward, 10° backward
Swivel	:90° left, 90° right

##### Physical

Unit dimension (WxHxD)	:411x439x380mm (16.18"x17.28"x14.95")
------------------------	--

Net weight	:16.4kg (36.1lbs)
------------	-------------------

##### Operating conditions

Temperature	:0° C - 40° C
Humidity	:10% - 90%

##### Storage conditions

Temperature	: -25° C - 65° C
Humidity	:5% - 95%

##### Mains cord

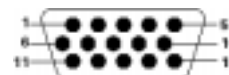
	:Non-shield
--	-------------

Specifications subject to change without notification.

### PIN ASSIGNMENT

The 15-pin D-sub connector (male) of the signal cable:

Pin No.	Assignment
1	Red video input
2	Green video input
3	Blue video input
4	Identical output - connected to pin 10
5	Self test
6	Red video ground
7	Green video ground
8	Blue video ground
9	No pin
10	Logic ground
11	Identical output - connected to pin 10
12	Serial data line (SDA)
13	H. Sync / H+V
14	V. Sync (VCLK for DDC)
15	Data clock line (SCL)





## ADDITIONAL INFORMATION

### WHAT TO DO IF SOMETHING ISN'T WORKING

#### TROUBLESHOOTING

Having trouble? Something not working? Before calling for help, try these suggestions.

##### HAVING THIS PROBLEM?

No Picture  
(Power LED not lit)

##### CHECK THESE ITEMS

Make sure the Power cable is plugged in the wall and back of the monitor.  
Power button on top of the monitor should be in the ON position.  
Disconnect the monitor from the power outlet for about one minute.

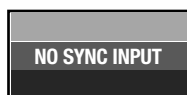
No Picture  
(Power LED is Amber  
or Yellow)

Make sure the computer is turned on.  
Make sure the monitor cable is properly connected to your computer.  
Check to see if the monitor cable has bent pins.  
The Energy Saving Feature may be activated. See pages 6 and 15 for details.

No Picture  
(Power LED is Green)

Make sure the Brightness and Contrast controls are set correctly. See page 4 for details  
Make sure the monitor cable is properly connected to your computer.  
Check to see if the monitor cable has bent pins.  
Make sure the computer Power button is on.

Screen shows



when you turn on  
the monitor.

Make sure the monitor cable is properly connected to your computer. See Setting Up Guide.  
Check to see if the monitor cable has bent pins.  
Make sure the computer is turned on

Color appears blotchy

The picture may need degaussing. See page 5 for details.  
Remove any nearby magnetic objects.  
Face the monitor East for best picture quality.

Missing one or  
more colors

Check user settings of Color Temperature. See pages 8 and 9 for details.  
Make sure the monitor cable is properly connected to your computer.  
Check to see if the monitor cable has bent pins.

Dim Picture

Adjust the Brightness and Contrast controls. See page 4 for details.  
Check your video card and the manual instructions for it. It may be a non-VESA-DDC Standard card.

Picture is too large  
or too small

Adjust the Horizontal and/or Vertical Size. See pages 11 and 12 for details.  
Adjust the Zoom. See page 11 for details.

Edges of the picture  
are not square

The geometry controls require adjusting. See page 10 for details.

Picture has a double  
image

Eliminate the use of a video extension cable and/or video switch box.  
Face the monitor East for best picture quality.

Picture is not sharp

Check to make sure Moire is switched off. See page 7.

Unstable Picture

Increase your refresh rate. Consult your computer manual for details.

Windows '95/'98 cannot  
find your video card

Select "Super VGA" under STANDARD DISPLAY TYPES, or contact your video card manufacturer  
for the right drivers.

**For further assistance, contact Philips at (800) 835-3506 or (423) 475-0280.**