

Exhibit 5

**INSTALLATION AND OPERATING
INSTRUCTION**

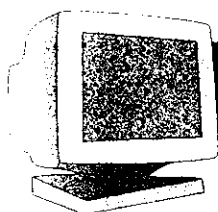


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17A580BQ

19A580BQ

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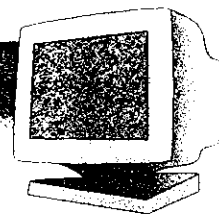
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BECAUSE OF CONTINUOUS PRODUCT IMPROVEMENTS,

THE INFORMATION MENTIONED IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.



Introduction

The Philips Brilliance 107MP/109MP color monitor displays sharp and brilliant images of text and graphics with a maximum resolution of 1600x1200 (for 107MP); 1800x1350 (for 109MP) 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 95KHz (107KHz for 109MP), 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 displays an image with the precise parameters you desire.

Features

- An anti-glare, anti-static, and anti-reflection super 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 white point for different application.
- The Image Tilt Adjustment feature corrects a rotated image. This correction minimizes the distortions caused by elements such as the Earth's magnetic field.
- The zoom feature allows you to adjust the image on your

screen, both enlarging and reducing its overall size.

- USB Bay at back of monitor is prepared for the Universal Serial Bus hub. You can easily and flexibly connect USB-designed devices – such as a mouse or keyboard – to the monitor for true Plug-and-Play function. USB hub shipped separately.
- Green Design – including automatic power saving function (NUTEK) and low-emission compliance (TCO '95) – shows your commitment to the environment.
- DDC1/DDC2B allows communication between the monitor and the PC for optimal video configuration.
- New CrystalClear II technology delivering sharper, brighter and higher contrast images across the entire screen.
- Moire Cancellation eliminates diffraction, a fringe pattern in the picture.

NOTE: Your monitor operates according to the VESA DDC level 1/2B. Only computers that support the same guidelines and operate at the same or a higher level can make use of 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 off. 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.

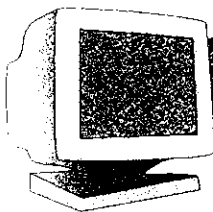
End-of-life disposal

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.

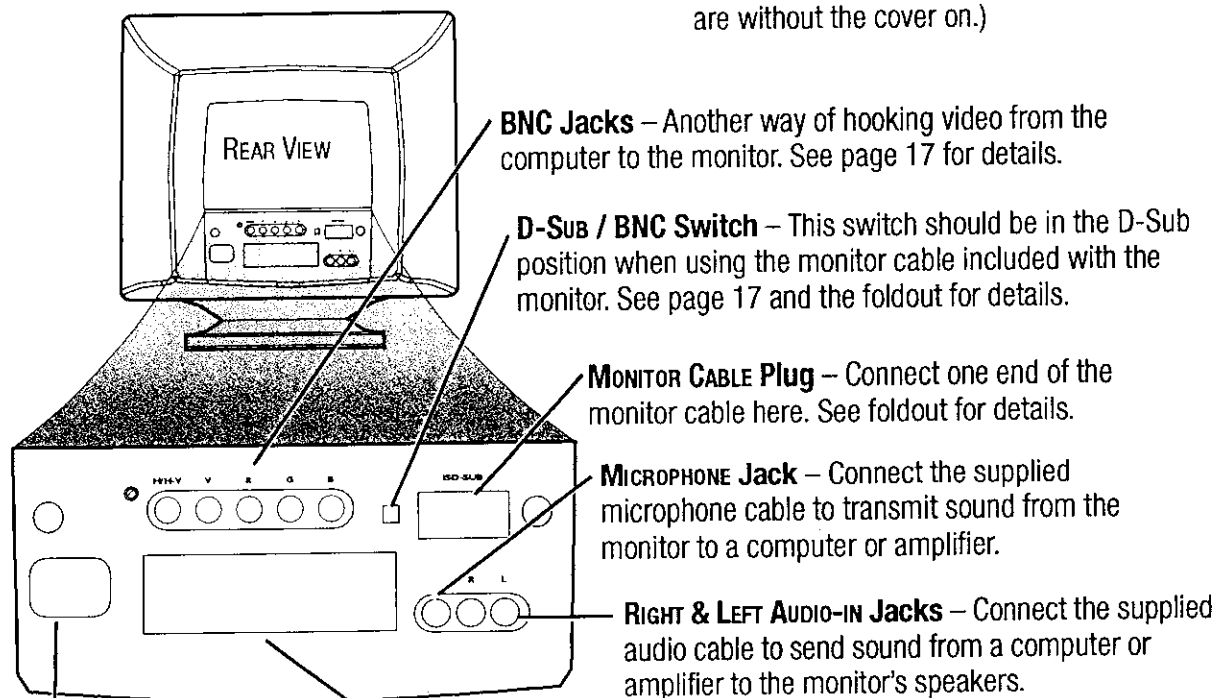
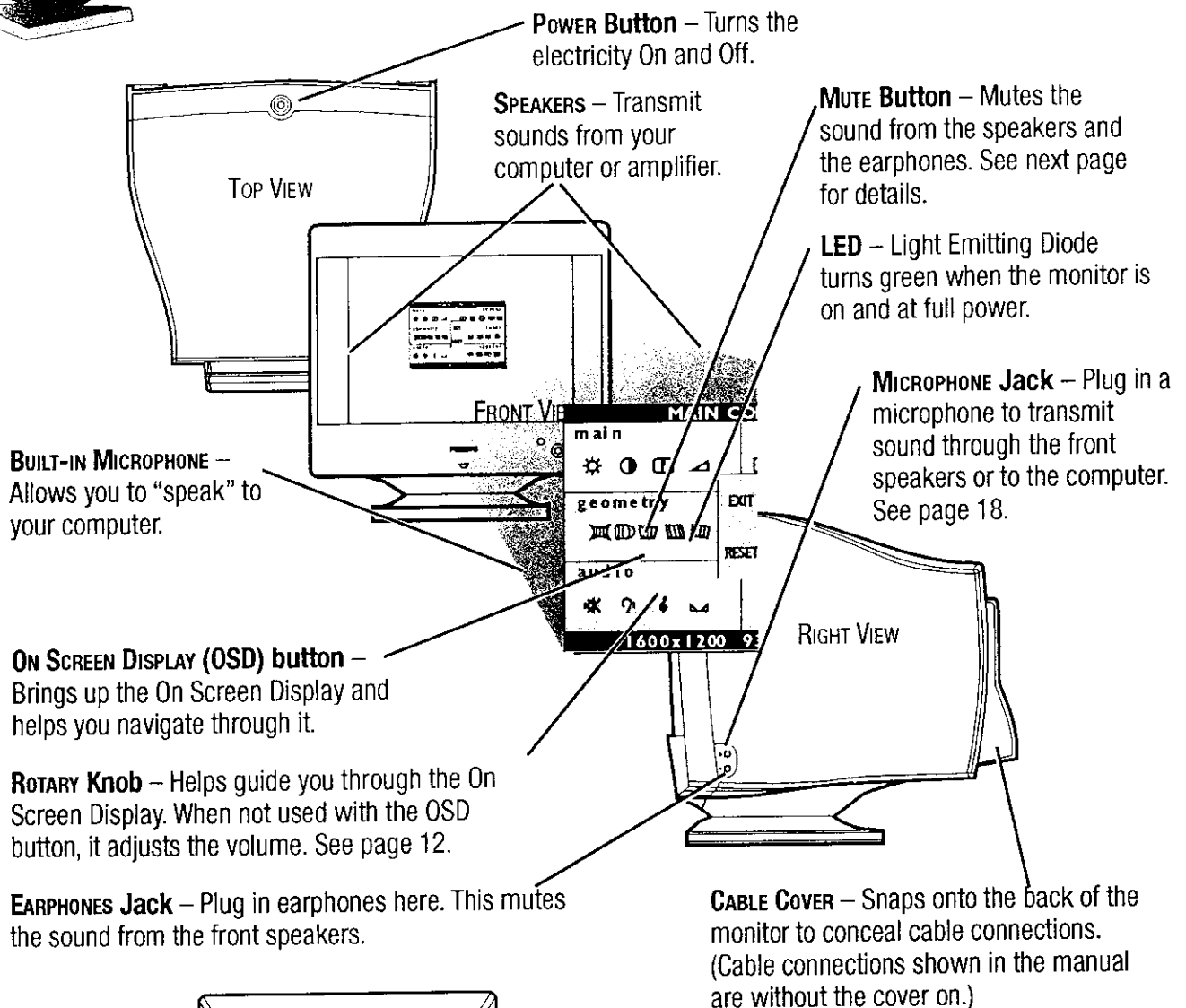
Please find out about the local regulations on how to dispose of your old monitor.

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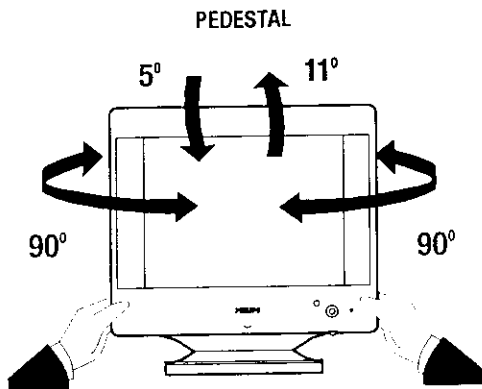
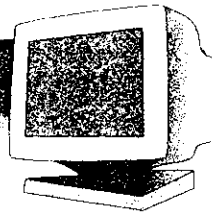
DESCRIPTION OF CONTROLS



POWER Plug – Plug the power cord in

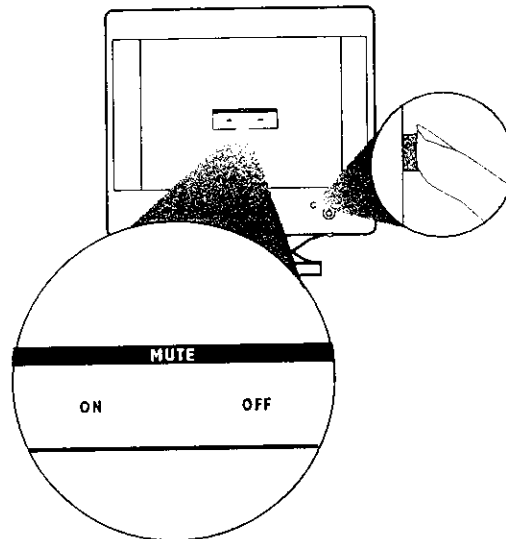
USB Bay – Slot for plugging in USB Hub. Optional hardware that

DESCRIPTION OF CONTROLS



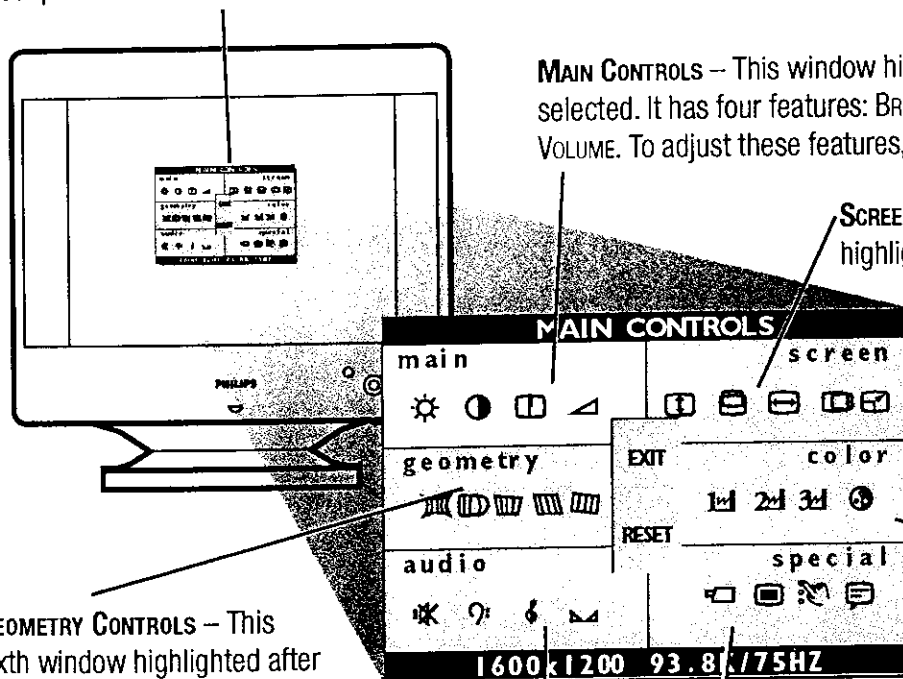
PEDESTAL – With the built-in pedestal, you can tilt and swivel the monitor to the most comfortable viewing angle. To best use your monitor, always place it at eye level.

FRONT-PANEL MUTE BUTTON



USING THE FRONT-PANEL MUTE BUTTON – To turn the mute On and Off, press the MUTE button to highlight either On or Off. For another way to mute the sound, see page 14.

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



MAIN CONTROLS – This window highlighted after the OSD has been selected. It has four features: BRIGHTNESS, CONTRAST, DEGAUSS, and VOLUME. To adjust these features, turn to pages 4 - 5.

SCREEN SIZE & POSITION – This window highlighted after the OSD has been selected. It has five features: ZOOM, HORIZONTAL POSITION, HORIZONTAL SIZE, VERTICAL POSITION, and VERTICAL SIZE. To adjust these features, turn to pages 6 - 8.

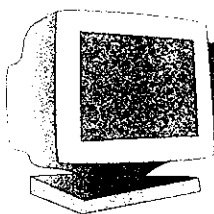
COLOR TEMPERATURE – This window highlighted after the OSD has been selected. It has four features: CAD/CAM, DTP, PHOTO RETOUCH, and USER PRESETS. To adjust these features, turn to pages 8 - 9.

GEOMETRY CONTROLS – This sixth window highlighted after the OSD has been selected. It has five features: PINCUSHION, BALANCED PINCUSHION, TRAPEZOID, PARALLELOGRAM, and ROTATION. To adjust these features, turn to page 15.

AUDIO CONTROLS – This fifth window highlighted after the OSD has been selected. It has four features: MUTE, BASS, TREBLE, and BALANCE. To adjust these features, turn to page 14.

SPECIAL CONTROLS – This window highlighted after the OSD has been selected. It has four features: LANGUAGE, ADVANCED CONTROLS, OSD CONTROLS, and VIDEO INPUT. To adjust these features, turn to pages 10 - 13.

Note: LANGUAGE allows you to change the On Screen Display from English to French, Spanish, German, or Italian. See page 10 for details.

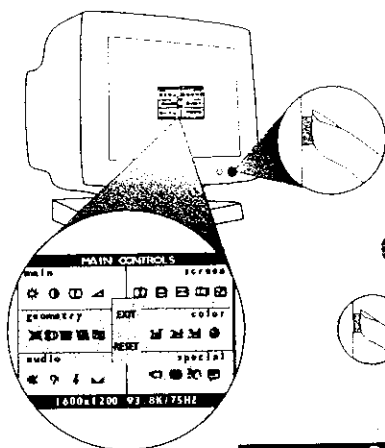


HOW TO USE THE ON SCREEN DISPLAY (OSD)

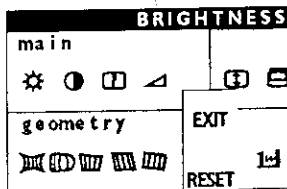
MAIN CONTROLS WINDOW

BRIGHTNESS

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.

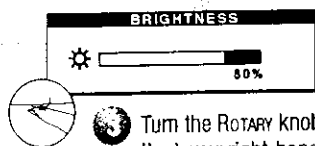


Press the On Screen Display button to highlight BRIGHTNESS icon.



Press the On Screen Display button to return to MAIN CONTROLS window.

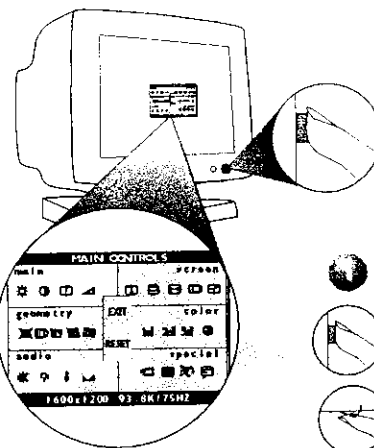
Press the On Screen Display button to bring up BRIGHTNESS screen.



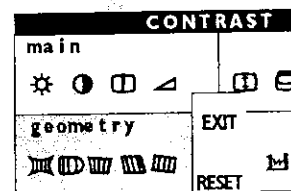
Turn the ROTARY knob (at the lower right-hand corner of the monitor) to adjust the brightness.

CONTRAST

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.

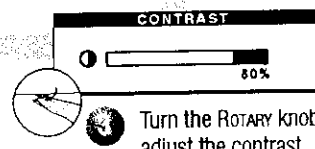


Press the On Screen Display button. Next, turn the ROTARY knob until the CONTRAST icon is highlighted.



Press the On Screen Display button to return to MAIN CONTROLS window.

Press the On Screen Display button to bring up CONTRAST screen.



Turn the ROTARY knob to adjust the contrast.

SMART HELP

After returning to MAIN CONTROLS ...

... to continue to CONTRAST, turn the ROTARY knob until CONTRAST icon is highlighted. Next, follow steps 3 - 5 under CONTRAST.

... to exit completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)

SMART HELP

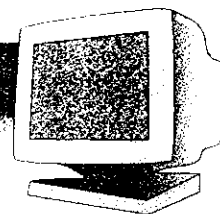
After returning to MAIN CONTROLS ...

... to continue to DEGAUSS, turn the ROTARY knob until DEGAUSS icon is highlighted. Next, follow steps 3 - 4 under DEGAUSS (on the next page).

... to exit completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)

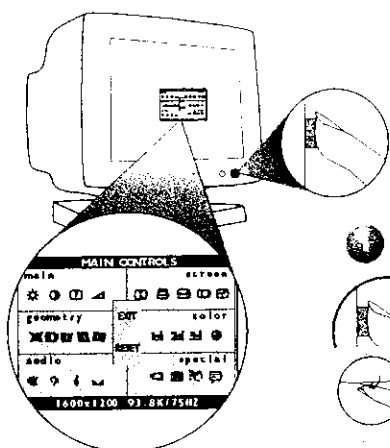
HOW TO USE THE ON SCREEN DISPLAY (OSD)

MAIN CONTROLS WINDOW

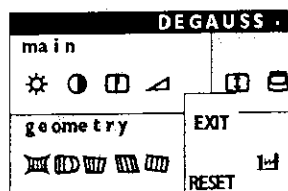


DEGAUSS

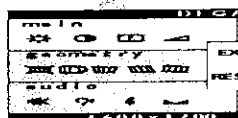
□ To degauss your screen, follow the steps below. Degaussing removes electromagnetic build up that may distort the color on your screen.



Press the ON SCREEN DISPLAY button. Next, turn the ROTARY knob until the DEGAUSS icon is highlighted.



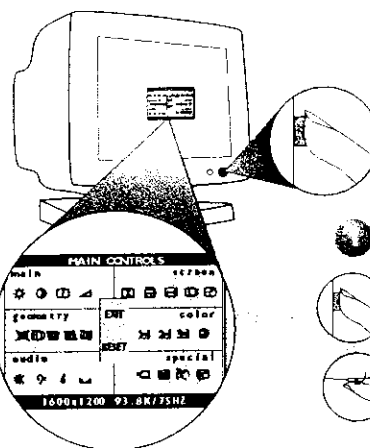
For a moment, the screen will be distorted. Then it will return to normal. You will be back at the MAIN CONTROLS window.



Press the ON SCREEN DISPLAY button to degauss your screen.

VOLUME

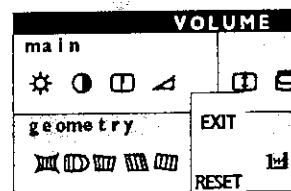
△ To adjust your monitor's volume, follow the steps below. The volume control adjusts the sound from the two front-mounted speakers or the earphones jack.



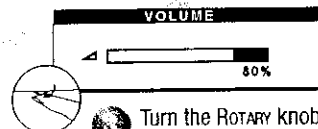
Press the ON SCREEN DISPLAY button. Next, turn the ROTARY knob until the VOLUME icon is highlighted.



Press the ON SCREEN DISPLAY button to return to MAIN CONTROLS window.



Press the ON SCREEN DISPLAY button to bring up VOLUME screen.



Turn the ROTARY knob (at the lower right-hand corner of the monitor) to adjust the volume.

SMART HELP

After returning to MAIN CONTROLS...

... to continue to VOLUME, turn the ROTARY knob until VOLUME icon is highlighted. Next, follow steps 3 - 5 under VOLUME.

... to exit completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)

SMART HELP

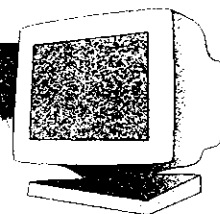
After returning to MAIN CONTROLS...

... to continue to the SCREEN SIZE & POSITION window, turn the ROTARY knob until EXIT is highlighted. Next, press the OSD button. Turn to the next page and follow steps 2 - 5 under FULL Size.

... to exit completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)

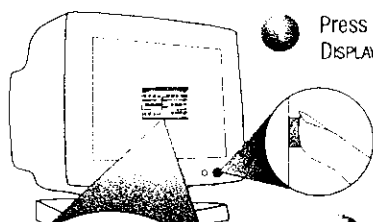
HOW TO USE THE ON SCREEN DISPLAY (OSD)

SCREEN SIZE & POSITION WINDOW

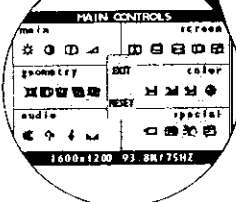


VERTICAL POSITION VERTICAL SIZE

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 sides or pulling it in toward the center.



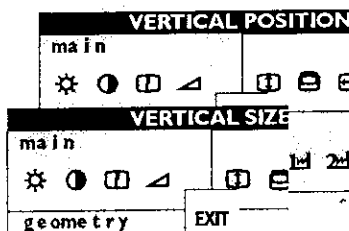
Press the On Screen Display button.



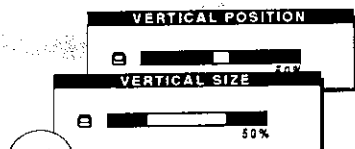
Turn the ROTARY knob until the VERTICAL Position or VERTICAL Size is highlighted.



Press the On Screen Display button to return to SCREEN Size & POSITION.



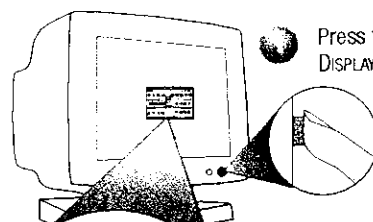
Press the On Screen Display button to bring up VERTICAL Position or VERTICAL Size screen.



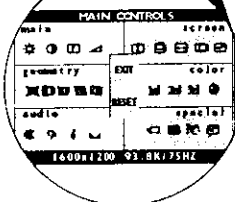
Turn the ROTARY knob until the image is vertically balanced or the vertical size your want.

HORIZONTAL SIZE

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.



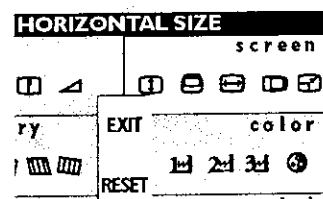
Press the On Screen Display button.



Turn the ROTARY knob until the HORIZONTAL Size is highlighted.



Press the On Screen Display button to return to SCREEN Size & POSITION.



Press the On Screen Display button to bring up HORIZONTAL Size screen.



Turn the ROTARY knob (at the lower right-hand corner of the monitor) until the image is the horizontal size you want.

SMART HELP

After returning to SCREEN Size & POSITION...

... to continue to VERTICAL Position, turn the ROTARY knob until VERTICAL Position is highlighted. Next, follow steps 3 - 5 under VERTICAL Position.

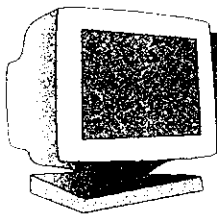
... to exit completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)

SMART HELP

After returning to SCREEN Size & POSITION...

... to continue to HORIZONTAL Size, turn the ROTARY knob until HORIZONTAL Size is highlighted. Next, follow steps 3 - 5 under HORIZONTAL Size (on the next page).

... to exit completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)

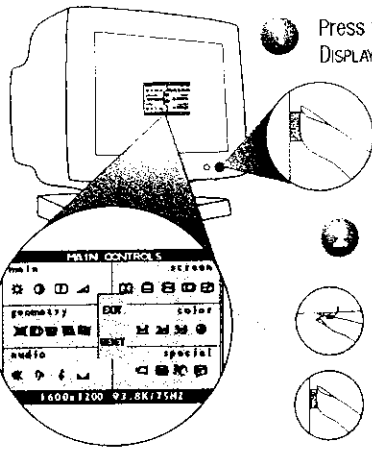


HOW TO USE THE ON SCREEN DISPLAY (OSD)

SCREEN SIZE & POSITION WINDOW

HORIZONTAL POSITION

- 1** Horizontal Position shifts the image on your screen either to the left or right. Use this feature if your image does not appear centered.

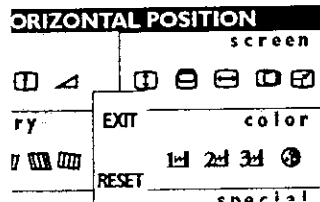


Press the On Screen Display button.

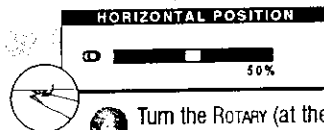
Turn the Rotary knob until the HORIZONTAL POSITION is highlighted.



Press the On Screen Display button to return to SCREEN SIZE & POSITION.



Press the On Screen Display button to bring up HORIZONTAL POSITION screen.



Turn the ROTARY (at the lower right-hand corner of the monitor) knob until the image is horizontally balanced.

SMART HELP

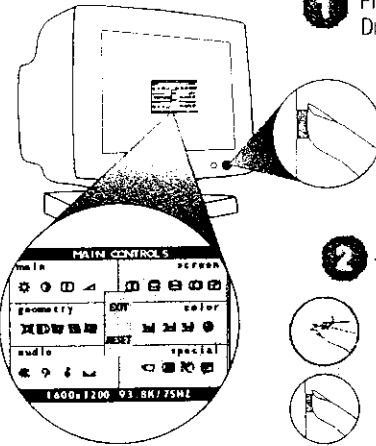
To make other changes in the Size & Position window ...

... after returning to the Size & Position window (but before press the On Screen Display (OSD) button in step 6), turn the ROTARY knob 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.

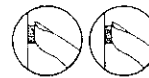
ZOOM

- 1** 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.

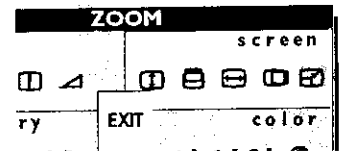


Press the On Screen Display button.

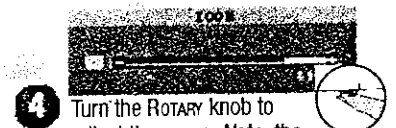
Turn the Rotary knob until SIZE & POSITION window is highlighted. Next, press the On Screen Display button.



Press the On Screen Display button to return to the Main Menu.



Press the On Screen Display button to bring up ZOOM screen.



Turn the ROTARY knob to adjust the zoom. Note: the screen expands or contracts as you adjust the Rotary knob.

SMART HELP

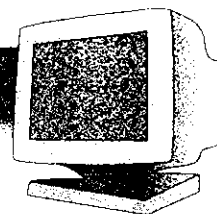
After returning to SCREEN SIZE & POSITION ...

... to continue to GEOMETRY WINDOW, turn the ROTARY knob until PINCUSHION is highlighted. Next, press the OSD button. Then follow steps 2a - 2c under GEOMETRY window on the next page.

... to exit completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)

HOW TO USE THE ON SCREEN DISPLAY (OSD)

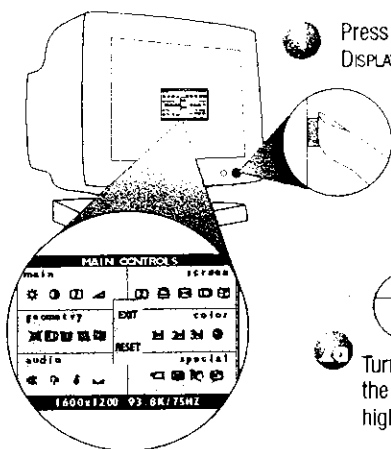
GEOMETRY CONTROLS WINDOW



PINCUSHION, BALANCED PINCUSHION, TRAPEZOID, PARALLELOGRAM, ROTATION

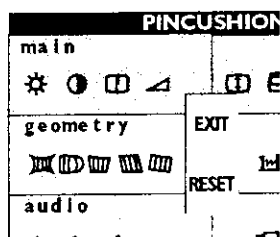


Follow the steps below to adjust any of the five preset options (PINCUSHION, BALANCED PINCUSHION, TRAPEZOID, PARALLELOGRAM, or ROTATION). You can make individual adjustments to each of the preset options. *Note: use these features only when the picture is not square.*



Press the ON SCREEN Display button.

Turn the ROTARY knob, if necessary, turn the ROTARY knob until PINCUSHION icon is highlighted.

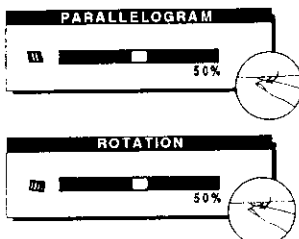


Press the ON SCREEN Display button. Then, turn the ROTARY knob to adjust the pincushion.

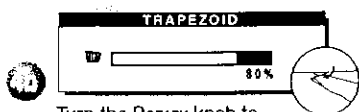


When done, press the ON SCREEN Display button to save the change and return to GEOMETRY CONTROLS window.

To select PARALLELOGRAM or ROTATION, turn the ROTARY knob until PARALLELOGRAM or ROTATION icon is highlighted. Next, press the ON SCREEN Display button. Then follow steps 4b and 4c to make the appropriate changes.



When done, press the ON SCREEN Display button. This will save the change and return the screen to GEOMETRY CONTROLS window.



Turn the ROTARY knob to adjust the trapezoid.

To select TRAPEZOID, turn the ROTARY knob until TRAPEZOID icon is highlighted. Next, press the ON SCREEN Display button.



When done, press the ON SCREEN Display button. This will save the change and return the screen to GEOMETRY CONTROLS.



Turn the ROTARY knob (on the lower right-hand corner of the monitor) to adjust the balanced pincushion.

SMART HELP

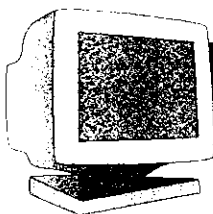
To exit GEOMETRY CONTROLS...

... but continue to another window, turn the ROTARY knob until required function is highlighted. Now, press the ON SCREEN Display button and follow the instructions for that window.

... completely, press the ON SCREEN Display button and hold for 1.5 seconds. The On Screen Display will disappear. 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 an Individual Window" on page 16.



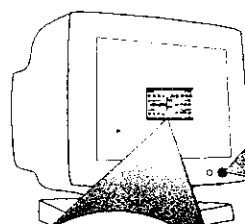
HOW TO USE THE ON SCREEN DISPLAY (OSD)

COLOR TEMPERATURE WINDOW

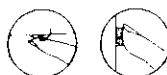
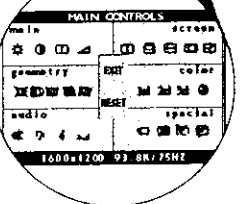
**9300 K CAD/CAM / 6500 K DTP
5500 K PHOTO RETOUCH**



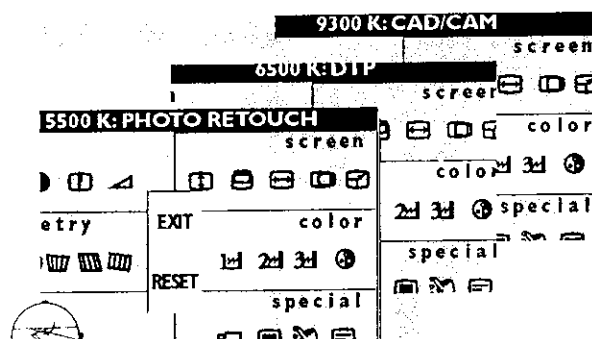
Your monitor has three preset options you can choose from. One **1** for Computer Aided Design (CAD) work. Two **2** for Desktop Publishing (DTP). And three **3** for Photo Retouch. When you select an option, the computer automatically adjusts itself for that selection.



Press the On Screen Display button.

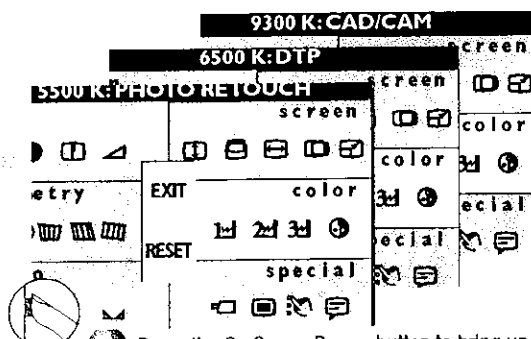


Turn the Rotary knob. Then press the On Screen Display button.



Turn the Rotary knob until Cad/CAM, DTP, or PHOTO RETOUCH is highlighted.

After each preset setting is saved, the on screen display automatically returns to the COLOR TEMPERATURE window. To save the next present setting, simply repeat the steps listed here.



Press the On Screen Display button to bring up and save the preset settings for 9300 K CAD/CAM, 6500 K DTP, or 5500 K PHOTO RETOUCH.

SMART HELP

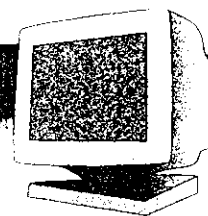
After returning to COLOR TEMPERATURE ...

... to continue to **ADVANCED COLOR CONTROL**, turn the ROTARY knob until **ADVANCED COLOR CONTROL** is highlighted. Next, follow steps 3 - 9 under **ADVANCED COLOR CONTROL** on the next page.

... to exit completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)

HOW TO USE THE ON SCREEN DISPLAY (OSD)

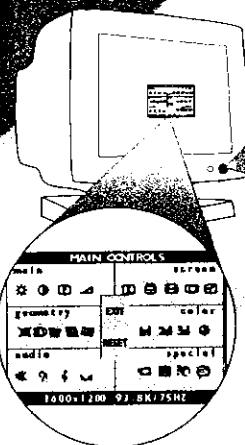
COLOR TEMPERATURE WINDOW



ADVANCED COLOR CONTROL



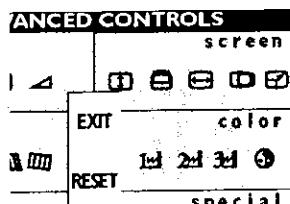
If you need to adjust any of the three preset options (CAD/CAM, DTP, or Photo Retouch), follow the steps below to modify the colors that appear on your screen. You can make individual adjustments to each of the preset options.



Press the On Screen Display button.



Turn the Rotary knob until Advanced Color Control icon is highlighted.



Press the On Screen Display button to bring up the Advanced Color Control window.

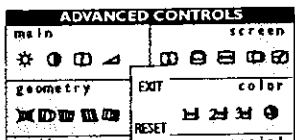


USER PRESET

9300°K 6500°K 5500°K



You will now be back at the Advanced Color Control window. See SMART HELP



If necessary, turn the Rotary knob until the Advanced Color Control icon is highlighted. Next, press the On Screen Display button.



To exit Advanced Color Control 1, press the On Screen Display button.



USER PRESET

9300°K 6500°K 5500°K



USER PRESET



Turn ROTARY knob to your required white point, press On Screen Display button to store the specified value in user



SMART HELP



USER PRESETS

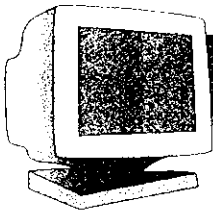
To exit User Presets (step 3 above), turn the Rotary knob until the Go Back icon is highlighted Go Back appears by the icon when highlighted. Next, press the On Screen Display button. You will be back at the COLOR TEMPERATURE window.

After returning to COLOR TEMPERATURE ...

... to continue to User Preset 2 or 3, repeat steps 3 through 8, selecting either User Preset 2 or User Preset 3.

... to continue to SPECIAL CONTROLS window, turn the Rotary knob until Exit is highlighted. Next, press the On Screen Display button. Then, turn the Rotary knob until SPECIAL CONTROLS is highlighted. Now, follow steps 2 - 5 under SPECIAL CONTROLS on the next page.

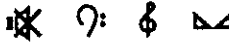
... to exit the On Screen Display completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)



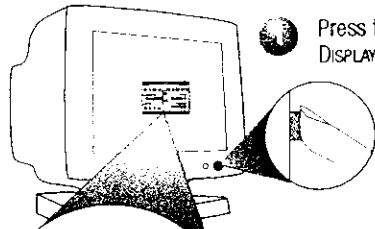
HOW TO USE THE ON SCREEN DISPLAY (OSD)

AUDIO CONTROLS WINDOW

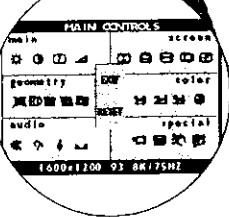
MUTE, BASS, TREBLE, BALANCE



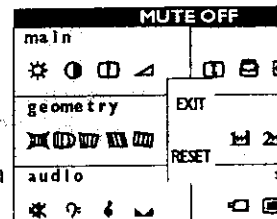
Follow the steps below to modify the sound that comes from your speakers. You can make individual adjustments to each of the preset options (MUTE, BASS, TREBLE, or BALANCE).



Press the On Screen Display button.



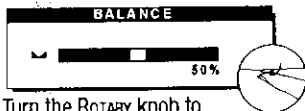
Turn the ROTARY knob, if necessary, turn the ROTARY knob until Mute icon is highlighted. If you have sound, MUTE OFF appears at the top of the on screen display.



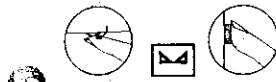
Press the On Screen Display button to mute the sound from your speakers and to return to Audio Controls window. MUTE ON appears at the top of the on screen display.



When done, press the On Screen Display button to save the change and return the screen to Audio Controls.



Turn the ROTARY knob to adjust the balance.



To select BALANCE, turn the ROTARY knob until BALANCE icon is highlighted. Then, press the On Screen

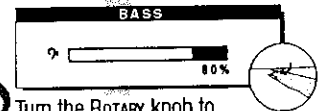
When done, press the On Screen Display button to save the change and return the screen to Audio Controls.



Turn the ROTARY knob to adjust the treble.

To select TREBLE, turn the ROTARY knob until TREBLE icon is highlighted. Next, press the On Screen Display button.

When done, press the On Screen Display button to save the change and return the screen to Audio Controls.



Turn the ROTARY knob to adjust the bass.

SMART HELP

To exit Audio Controls ...

... but continue on to SPECIAL CONTROLS, turn the ROTARY knob until required function is highlighted. Next, press the On Screen Display button. Then go to step 2a on page 15.

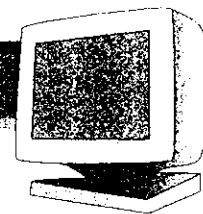
... completely, press the On Screen Display button and hold for 1.5 seconds. The On Screen Display will disappear. All changes will be saved.

To cancel Mute, repeat step 2b, or press the MUTE button on the front of the monitor.

To make changes to one item, follow the steps for that item. Then follow the instructions To exit Audio Controls

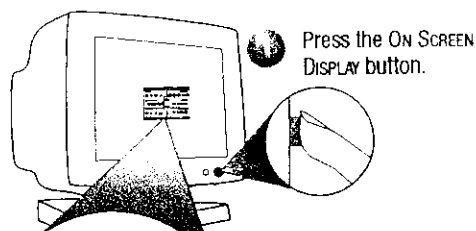
HOW TO USE THE ON SCREEN DISPLAY (OSD)

SPECIAL CONTROLS WINDOW

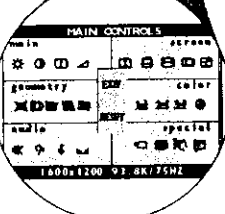


VIDEO INPUT

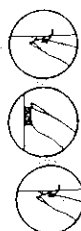
Video Input helps determine what you see on the screen. It is set at 0.7V(olts), but if the video input signal is different than the output signal, you may want to change it to 1.0V.



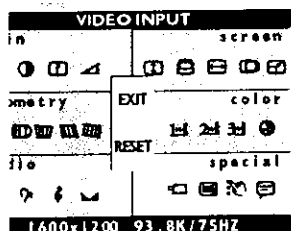
1 Press the On Screen Display button.



2 Turn the ROTARY knob until the Video Input icon is highlighted.



3 Press the On Screen Display button to save your selection and return to SPECIAL CONTROLS.



4 Press the On Screen Display button. The Video Input screen appears.



5 Turn the ROTARY knob to select either 0.7V or 1.0V.

SMART HELP

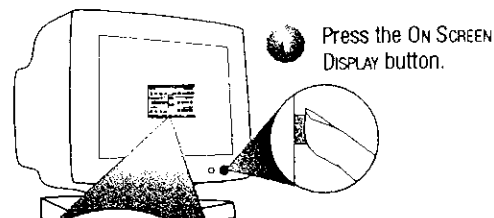
After returning to SPECIAL CONTROLS...

... to continue to OSD Controls, turn the ROTARY knob until OSD CONTROLS icon is highlighted. Then, follow steps 3 - 6 under OSD CONTROLS.

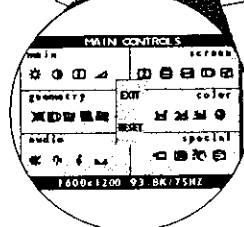
... to exit completely, press the OSD button and hold for 1.5

OSD CONTROLS

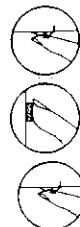
With OSD CONTROLS, you can set the time for the On Screen Display to time out, and change the vertical and horizontal position of the OSD on the monitor screen.



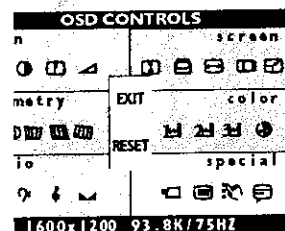
1 Press the On Screen Display button.



2 Turn the ROTARY knob until the OSD CONTROLS icon is highlighted.



3 Turn the ROTARY knob to select either VERTICAL or HORIZONTAL POSITION and repeat steps 3 - 6.



4 Press the On Screen Display button to add your change and return to OSD CONTROLS.



5 Press the On Screen Display button to bring up OSD CONTROLS screen.

6 Turn the ROTARY knob to select 05, 10, 25 seconds, or OFF.



7 Press the On Screen Display button to bring up TIMER screen.

SMART HELP

After returning to OSD CONTROLS...

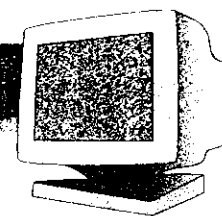
... to continue to SPECIAL CONTROLS, turn the ROTARY knob until Go BACK is highlighted. Next, press the On Screen Display button. Then, turn the ROTARY knob to SPECIAL CONTROLS window and go to the next page.

to exit completely, press the OSD button and hold for 1.5



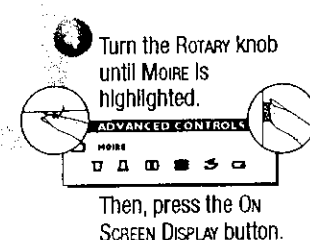
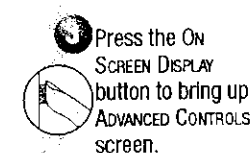
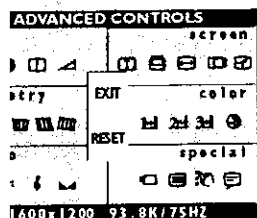
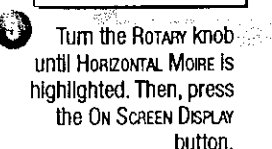
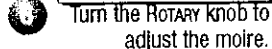
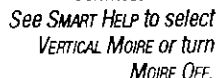
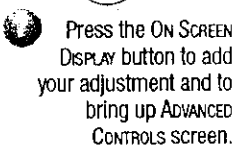
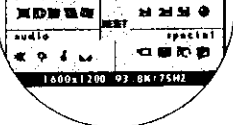
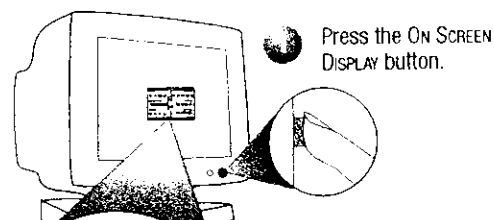
HOW TO USE THE ON SCREEN DISPLAY (OSD)

SPECIAL CONTROLS WINDOW



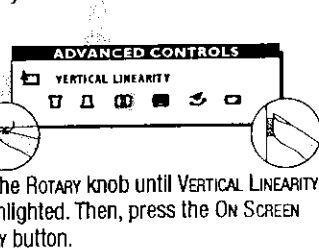
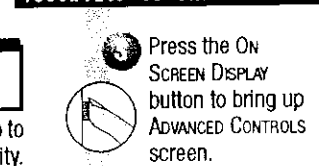
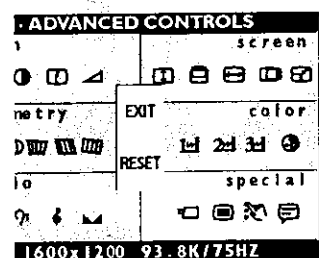
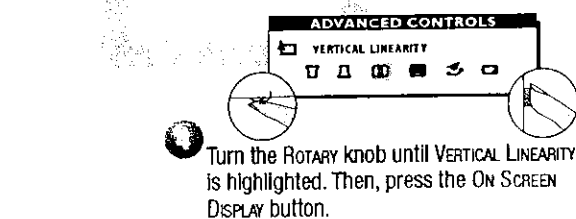
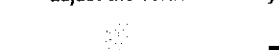
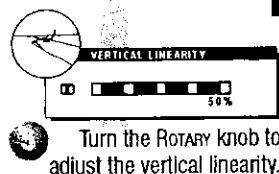
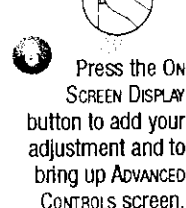
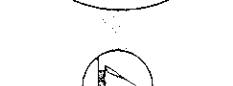
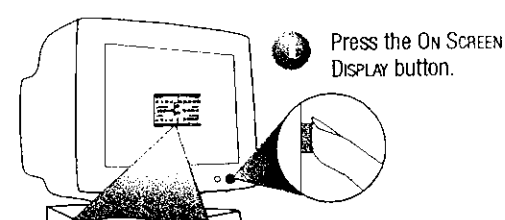
ADVANCED CONTROLS MOIRE

ADVANCED CONTROLS is a set of five adjustments, including **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. By activating **MOIRE**, sharpness can be affected.*



ADVANCED CONTROLS VERTICAL LINEARITY

ADVANCED CONTROLS is a set of five adjustments, including **VERTICAL LINEARITY**. **Linearity** is the degree with which the actual location of a pixel on the screen corresponds with its intended location. To adjust your **VERTICAL LINEARITY**, follow the steps below.



SMART HELP

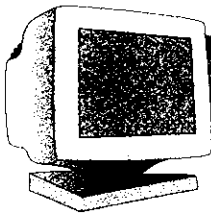
After returning to **ADVANCED CONTROLS...**

- ... to continue to **MOIRE**, turn the ROTARY knob until **MOIRE** icon is highlighted. Next, follow steps 4 - 7 under **MOIRE**.
- ... to exit completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)

SMART HELP

After returning to **ADVANCED CONTROLS...**

- ... to continue to **VERTICAL LINEARITY**, turn the ROTARY knob until **VERTICAL LINEARITY** icon is highlighted. Next, follow steps 4 - 6 under **VERTICAL LINEARITY** (on the next page).
- ... to exit completely, press the OSD button and hold for 1.5 seconds. (See page 16 for other exit options.)



HOW TO USE THE ON SCREEN DISPLAY (OSD)

SPECIAL CONTROLS WINDOW

ADVANCED CONTROLS CORNER CORRECTION

ADVANCED CONTROLS is a set of five adjustments. They include **CORNER CORRECTION**, **VERTICAL LINEARITY**, **MOIRE**, **ROTARY DEFAULT**, and **POWER SAVING**. **CORNER CORRECTION** "squares up" the corners of an image on the screen. To adjust your **CORNER CORRECTION**, follow the steps below.

1. Press the **ON SCREEN DISPLAY** button.
2. Turn the **ROTARY** knob until the **ADVANCED CONTROLS** icon is highlighted.
3. Press the **ON SCREEN DISPLAY** button to bring up **ADVANCED CONTROLS** screen.
4. Turn the **ROTARY** knob until desired corner correction is selected.
5. Press the **ON SCREEN DISPLAY** button to bring up **ADVANCED CONTROLS** screen.
6. If necessary, turn the **ROTARY** knob until **CORNER CORRECTION** (up or bottom) is highlighted. Then, press the **ON SCREEN DISPLAY** button.

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**.

1. Press the **ON SCREEN DISPLAY** button.
2. Turn the **ROTARY** knob until **LANGUAGE** icon highlighted.
3. Press the **ON SCREEN DISPLAY** button to confirm your selection and return to **SPECIAL CONTROLS**.
4. Press the **ON SCREEN DISPLAY** button to bring up **LANGUAGE** screen.
5. Turn the **ROTARY** knob (at the lower right-hand corner of the monitor) until desired language is selected.

SMART HELP

To select **VERTICAL MOIRE** or to turn **Moire** off, follow the steps above, selecting **VERTICAL MOIRE** or **Moire** off in step 5.

After returning to **ADVANCED CONTROLS**...

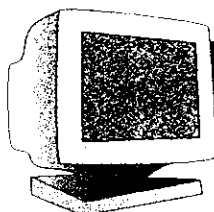
... to continue to **ROTARY DEFAULT**, turn the **ROTARY** knob until **ROTARY DEFAULT** icon is highlighted. Next, follow steps 4 - 6 under **ROTARY DEFAULT**. ... to exit completely, press the **OSD** button and hold for 1.5 seconds. (See page 16 for other exit options.)

SMART HELP

After returning to **ADVANCED CONTROLS**...

... to continue to **POWER SAVING**, turn the **ROTARY** knob until **POWER SAVING** is highlighted. Next, follow steps 3 - 6 under **POWER SAVING**.

... to exit completely, press the **OSD** button and hold for 1.5 seconds. (See page 16 for other exit options.)

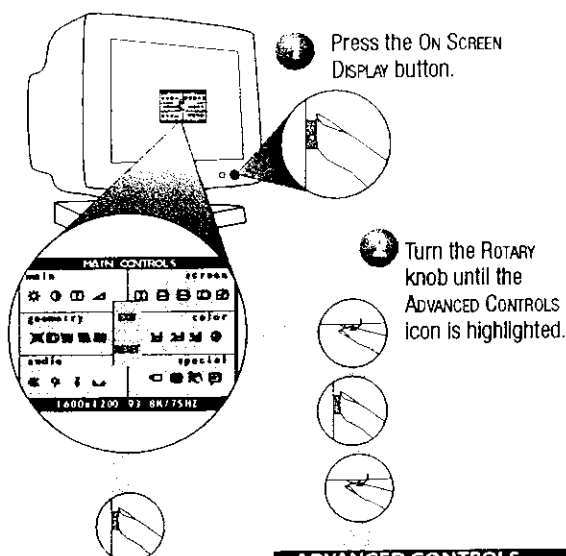


HOW TO USE THE ON SCREEN DISPLAY (OSD)

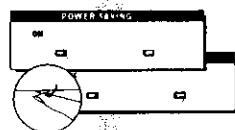
SPECIAL CONTROLS WINDOW

ADVANCED CONTROLS POWER SAVING

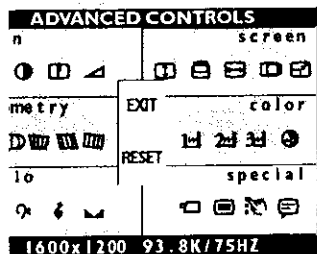
POWER SAVING helps save energy when the monitor is on but not being used. After a preset time, the monitor will go blank if not being used. To select **POWER SAVING**, follow the steps below.



3 Press the On Screen Display button to add your adjustment and return to **ADVANCED CONTROLS**.



4 Turn the Rotary knob to select **POWER SAVING** On or Off.



5 Press the On Screen Display button to bring up **ADVANCED CONTROLS** screen.



6 Turn the Rotary knob until **POWER SAVING** is highlighted. Then, press the On Screen Display button.

SMART HELP

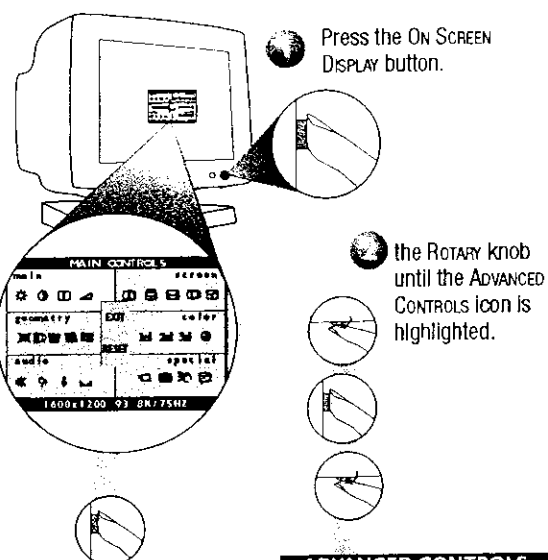
After returning to SPECIAL CONTROLS...

... to continue to **ADVANCED CONTROLS**, turn the Rotary knob until **ADVANCED CONTROLS** icon is highlighted. Next, follow steps 3 - 6 under **ADVANCED CONTROLS**.

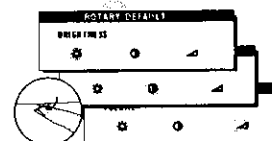
... to exit completely, press the OSD button and hold for 1.5

ADVANCED CONTROLS ROTARY DEFAULT

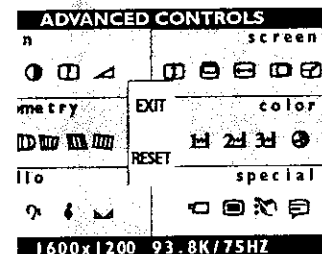
ROTARY DEFAULT allows you to pick the feature your Rotary knob will default to when not used in adjusting your On Screen Display. The normal default is volume. To select your **ROTARY DEFAULT**, follow the steps below.



3 Press the On Screen Display button to add your adjustment and return to **ADVANCED CONTROLS**.



4 Turn the Rotary knob to select **BRIGHTNESS, CONTRAST, or VOLUME**.



5 Press the On Screen Display button to bring up **ADVANCED CONTROLS** screen.

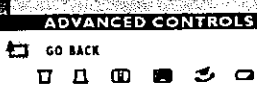


6 Turn the Rotary knob until **ROTARY DEFAULT** is highlighted. Then, press the On Screen Display button.

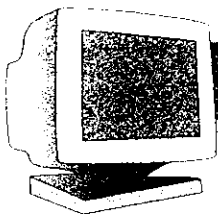
SMART HELP

After returning to ADVANCED CONTROLS...

to continue to **OSD CONTROLS**, turn the Rotary knob until **GO BACK** is highlighted. Next, press the On Screen Display button. Then, turn the Rotary knob to **OSD CONTROLS** and go to the next page.



to exit completely, press the OSD button and hold for 1.5



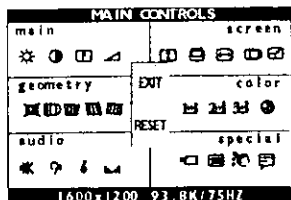
HOW TO USE THE ON SCREEN DISPLAY (OSD)

EXIT AND RESET

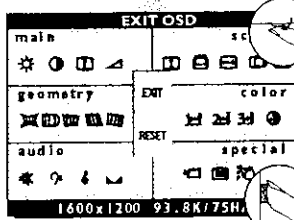
EXIT & RESET FROM THE ON SCREEN DISPLAY

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 AN ENTIRE ON SCREEN DISPLAY

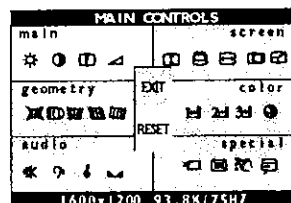


Make sure you have exited from all icons in a window. (See To EXIT FROM AN INDIVIDUAL WINDOW.) For example, MAIN CONTROLS will be highlighted.

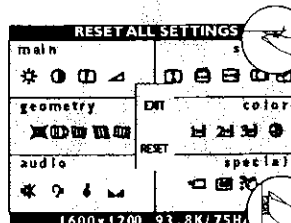


Turn the ROTARY knob until Exit is highlighted. Next, press the On Screen Display button. The On Screen Display will disappear.

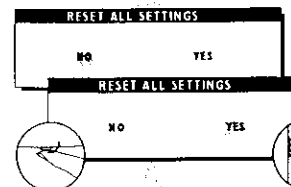
RESET ENTIRE ON SCREEN DISPLAY



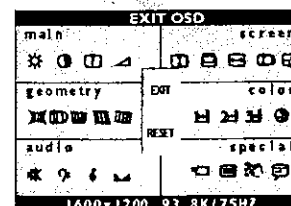
Make sure you have exited from all icons in a window. (See To EXIT FROM AN INDIVIDUAL WINDOW.) For example, MAIN CONTROLS will be highlighted.



Turn the ROTARY knob until Reset is highlighted. Next, press the On Screen Display button.



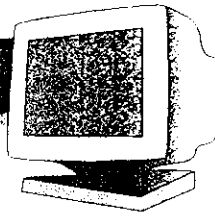
Turn the ROTARY knob to select No or Yes. Then press the On Screen Display button.



If Yes or No is selected, the Exit OSD screen appears.

ADDITIONAL HOOK UP OPTIONS

BNC AND USB SET UPS



BNC CONNECTIONS

BNC is another way to connect the monitor to the computer. This connection requires an optional BNC cable. It can be connected to either a Macintosh- or IBM-compatible computer. For those who work with graphics or designs, this option may be better.

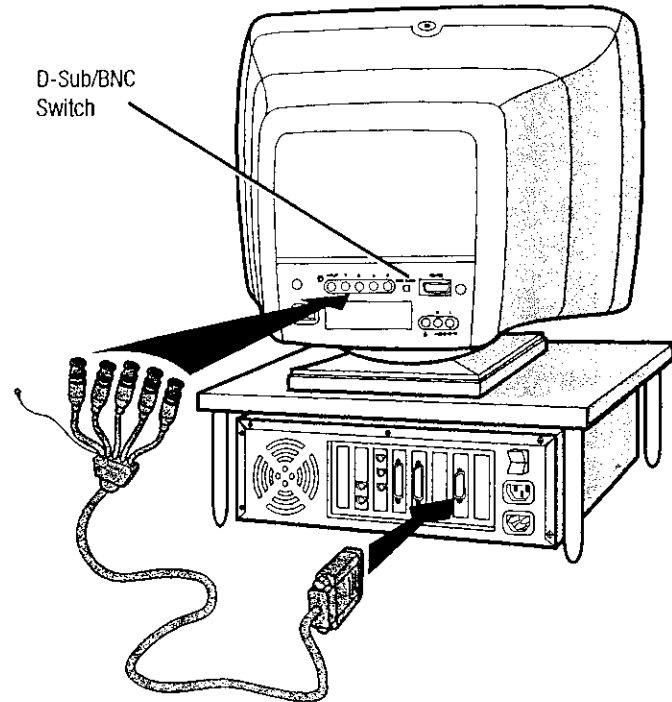
Note: Be sure to flip the D-Sub/BNC switch to BNC when using this connection.

For an IBM-compatible computer:

1. Turn off the computer.
2. Connect the (optional) BNC monitor cable and set D-Sub/BNC switch to BNC.
3. Connect the power cable.
4. Turn on the monitor. Then turn on the computer.
5. If you have Windows '95, follow the "If you have Windows '95" steps on the Setting Up foldout sheet.

For a Macintosh-type computer:

1. Connect the Mac adapter to one end of the monitor cable.
2. Turn off the computer.
3. Connect the (optional) BNC monitor cable and set D-Sub/BNC switch to BNC.
4. Connect the power cable.
5. Turn on the monitor. Then turn on the computer.



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

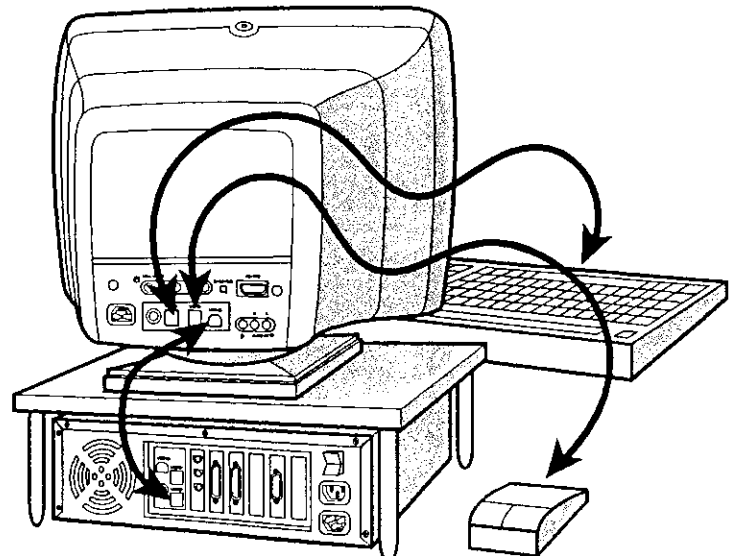
USB CONNECTIONS

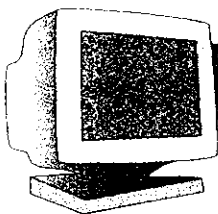
USB (Universal Serial Bus) is an innovation in connecting your IBM-compatible computer to your monitor. By using the USB, you will be able to connect your keyboard, mouse, printer, and other peripherals to your monitor instead of having to connect them to your computer. This will give you greater flexibility in setting up your system. Plus, you will have true plug-and-play capability. While the software is still being developed, Philips has included the hardware so you will be ready to take advantage of this next generation in computer development.

For an IBM-compatible Computer:

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

Note: USB Hub and cables sold separately. USB Bay exists in back of monitor.





ADDITIONAL INFORMATION

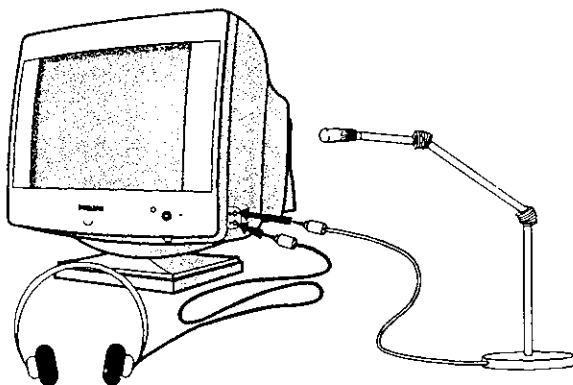
AUDIO HOOK UPS AND POWER SAVING FEATURE

MICROPHONE AND EARPHONES JACKS

In addition to built-in speakers and microphone, you can connect this monitor to optional earphones and a microphone. The jacks are on the right side of the monitor.

To use the microphone with your computer or an amplifier, make the connections shown below.

Note: When the earphones are plugged in, there will be no sound from the built-in speakers.

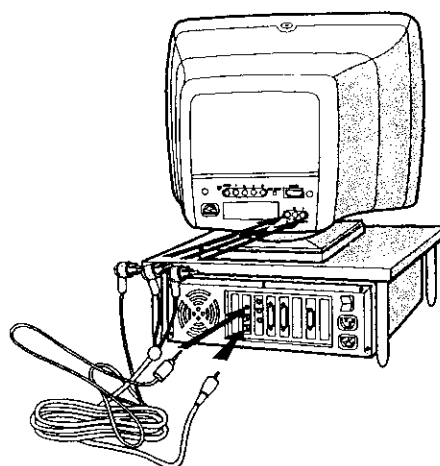


MICROPHONE AND AUDIO-IN JACKS

A microphone jack is on the back of the monitor. Use it and the supplied cable to connect your monitor to your computer or an amplifier (if either has the right type of jack).

On the back of this monitor there is also one set of left and right audio-in jacks. Use them and the supplied cable to connect your monitor to your computer or an amplifier (if either has the right type of jacks).

See page 2 for more detailed illustrations of the jacks' locations.



Refer to the owner's manuals included with your earphones and microphone for a detailed guide to setting up these items.

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 12. The table at right shows the 12 factory preset resolution modes. The maximum number of modes is 16. 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	< 110W	0%	Green
Stand-by	Blanked	No	Yes	< 15W	86.3%	Yellow
Suspend	Blanked	Yes	No	< 15W	86.3%	Yellow
OFF	Blanked	No	No	< 3W	97.2%	Amber

This monitor is Energy Star compliant and power management compatible.



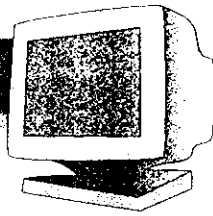
AS AN ENERGY STAR PARTNER, PHILIPS HAS DETERMINED THAT THIS PRODUCT MEETS THE ENERGY STAR GUIDELINES FOR ENERGY EFFICIENCY. The proper operation of the function requires a computer with VESA DPMS power management capabilities. When used with a computer equipped with VESA DPMS, the monitor is Energy Star 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	37.5	75	VESA/75
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	68.6	85	VESA/85
8	1152 x 870	69.0	75	MAC
9	1152 x 900	71.8	76	SUN SPARC
10	1280 x 1024	80.0	75	VESA/75
11	1280 x 1024	91.0	85	VESA/85
12	1600 x 1200	93.8	75	VESA/75
13*	1600 x 1200	85	75	

* only for 109MP

ADDITIONAL INFORMATION

COMING TO TERMS WITH THIS BOOK



SPECIFICATIONS (107MP)

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	:Super High contrast

Display area

Factory preset	:300 mm (H) x 225 mm (V)
Maximum usable	:326.5 mm (H) x 242 mm (V)

Scanning frequency

Horizontal (line)	:30-95kHz (AutoScan)
Vertical (frame)	:50-160 Hz (AutoScan)

Input power

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

Power consumption

	:< 125 W (w/ USB, audio)
	< 110 W (w/o USB, audio)

Thermal dissipation

	:375.4 BTU normal (w/o USB)
	426.6 BTU maximum (w/USB)

Input signal

Video	:0.7 or 1.0 Vpp, 75 Ohm impedance
Sync	:Separate sync. TTL level Composite sync. TTL level

Pedestal

Tilt	:5° forward, 11° backward
Swivel	:90° left, 90° right

Physical

Unit dimension (WxHxD)	:442 x 433 x 500 mm (17.4" x 17" x 19.7")
Net weight	:20.5 kg (45.2 lbs.)

Operating conditions

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

Storage conditions

Temperature	: -40° C - 60° C
Humidity	:5% - 95%

SPECIFICATIONS (109MP)

GENERAL

CRT

Screen size	:19" (48.2 cm) flat & square
Viewable Image Size (VIS)	:18.0"
Focusing method	:Dynamic focus
Dot pitch	:0.22 mm (horizontal)
Phosphor	:P22 or equivalent, medium short persistence
Screen treatment	:Super High contrast

Display area

Factory preset	:340 mm (H) x 255 mm (V)
Maximum usable	:365.5 mm (H) x 273 mm (V)

Scanning frequency

Horizontal (line)	:30-107kHz (AutoScan)
Vertical (frame)	:50-160 Hz (AutoScan)

Input power

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

Power consumption

	:< 135 W (w/ USB, audio)
	< 110 W (w/o USB, audio)

Thermal dissipation

	:375.4 BTU normal (w/o USB)
	426.6 BTU maximum (w/USB)

Input signal

Video	:0.7 or 1.0 Vpp, 75 Ohm impedance
Sync	:Separate sync. TTL level Composite sync. TTL level

Pedestal

Tilt	:5° forward, 11° backward
Swivel	:90° left, 90° right

Physical

Unit dimension (WxHxD)	:485 x 490 x 515 mm (19.1" x 19.3" x 20.3")
Net weight	:24.5 kg (53.9 lbs.)

Operating conditions

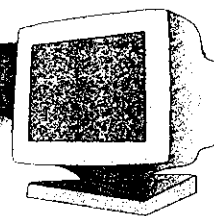
Temperature	:0° C - 40° C
Humidity	:10% - 90%

Storage conditions

Temperature	: -40° C - 60° C
Humidity	:5% - 95%

ADDITIONAL INFORMATION

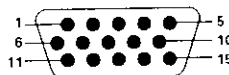
COMING TO TERMS WITH THIS BOOK



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	Ground
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)



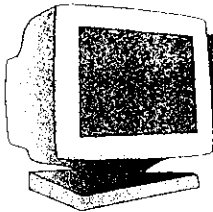
GLOSSARY

Here are a few definitions that may help you.

Degauss	The process by which metal parts of the monitor are demagnetized in order to reduce screen distortion and color impurity.
D-Sub/ BNC	Two ways of connecting your monitor to your computer. Your monitor comes with a D-Sub cable. For work with a heavy emphasis on graphics, a BNC cable is recommended.
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.
USB	Universal Serial Bus. A way to connect your computer, monitor, and peripherals for true Plug-and-Play functions.

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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 in color)

Make sure the computer is turned on.
Make sure the D-Sub/BNC switch on the rear of the monitor is in the correct position. See pages 2 and 17.
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 12 and 18 for more detail.

No Picture
(Power LED is Green
in color)

Make the Brightness and Contrast controls are set correctly. See page 4 for details.
Make sure the D-Sub/BNC switch on the rear of the monitor is in the correct position. See pages 2 and 17.
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 says



when you turn on
the monitor.

Make sure the D-Sub/BNC switch on the rear of the monitor is in the correct position. See pages 2 and 17.
Make sure the monitor cable is properly connected to your computer. See Setting Up foldout.
Check to see if the monitor cable has bent pins.
Make sure the computer is turned on

No Color

If you are using a non-VESA-DDC standard video card, consult your local Philips dealer or service organization to obtain an adapter.

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 the Video Input selection and switch from 0.7 volts to 1.0 volts or 1.0 volts to 0.7 volts. See page 13.
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 7 and 8 for details.

Edges of the picture
are not square

The geometry controls require adjusting. See page 15 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 11.

No Audio

Make sure mute is not activated. See pages 2 and 14 for details.
Rotary Default may be set to Brightness or Contrast. See page 12 for details.
Make sure the Right & Left Audio in cable is securely plugged into the monitor and the audio source.
See pages 2 and 18 for details.

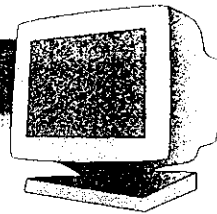
Unstable Picture

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

Windows '95 cannot
find your video card

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

ADDITIONAL INFORMATION



FIRST LEVEL

SECOND LEVEL

THIRD LEVEL

Main / Brightness
/ Contrast
/ Degaussing
/ Volume

Screen / Vertical size
/ Vertical position
/ Horizontal size
/ Horizontal position
/ Zoom

Geometry / Pincushion
/ Balance Pincushion
/ Trapezoid
/ Parallelogram
/ Rotation

Color / 9300K
/ 6500K
/ 5500K

** / Advanced color control ——— 3 User modes

Audio / Mute
/ Bass
/ Treble
/ Balance

Special / Video input ———
0.7V
1.0V

/ OSD control ———

Timer ———
5
10
25
Off

/ Advanced control ———

H position
V position
Up control
Bottom control
Vertical linearity
Moire ———

H moire
V moire
Off
Brightness
Contrast
Volume

Rotary default ———

Power saving ———

On
Off

/ Language ———

ENGLISH
DEUTSCH
FRANÇAIS
ITALIANO
ESPANOL

Exit ———

Save

Reset ———

Reset all setting

Federal Communications Commission (FCC Statement)

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 reception, 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.

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

Use only RF shielded cable that was supplied with the monitor when connecting this monitor to a computer device.

Warning:

WHEN POSITIONING THIS EQUIPMENT ENSURE THAT THE MAINS PLUG AND SOCKET IS EASILY ACCESSIBLE.

To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessive moisture.

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.
