Exhibit 5

INSTALLATION AND OPERATING INSTRUCTION

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181AS
18L8025Q

OTHER LANGUAGE VERSIONS

APPENDIX

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

Introduction

The Philips Brilliance181AS Flat Panel Monitor satisfies the need of high-end corporate and professional users. This monitor is for those who are seeking advanced design, a small footprint, high quality picture and ergonomic features in a monitor that takes minimal desk space. Its innovative technology delivers outstanding viewing angle and picture quality, zero emissions, and low-energy consumption.

Features

EXCELLENT DISPLAY QUALITY

• 18.1 inch viewable area display - comparable to the viewable screen size of a 19-inch CRT monitor, with even better picture clarity and geometry.

• Full compatibility with all standard video cards and all common VESA modes up to 1280 x 1024 resolution with 30 to 82 kHz horizontal scanning.

• State of the art image processing for optimal full screen image expansion at resolutions for DOS, VGA 640 x 480, SVGA 800 x 600, XGA 1024 x 768 and SXGA 1280 x 1024.

• Two separate video inputs with automatic priority setting and one touch input selction.

ERGONOMIC DESIGN

• To protect the LCD panel against wear and scratches, an optional protective cover can be ordered separately. Please inquire with your dealer.

• Detachable pedestal for swing arm or wall mount applications. A special hinge design on the monitor insures full tilt and rotation adjustability even on the simplest mount.

• Easy OSD with five (5) language text.

• Mouse controlled operation via USB device with CustoMax™ software.

• TCO '99 approved

OTHERS

• 1+1W stereo front-firing audio and microphone

• USB Bay for an optional powered hub with four (4) downstream ports

• Anti-theft Kensington® socket lock and OSD lock to prevent tampering especially useful at point-of-sale and customer interaction sites.

Note: Your monitor operates according to the VESA DDC level 1/2B. Only computers and softwares 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 software or 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.pctuff.philips.com

Safety precautions and maintenance

• Unplug the monitor, if you are not going to use it for an extensive 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 possible when the power is off. However, never use alcohol, solvents, or ammonia-based liquids.

• Consult a service technician if the monitor does not operate normally when following the instructions in this manual.

• The casing cover should be opened only by qualified service personnel.

• Keep the monitor out of direct sunlight and away from stoves or any other heat source.

• Remove any object that could fall into the vents or prevent proper cooling of the monitor's electronics.

• Do not block the ventilation holes on the cabinet.

• Keep the monitor dry. To avoid electric shock, do not expose it to rain or excessive moisture.

• When positioning the monitor, make sure the power plug and outlet are easily accessible.

• If turning off the monitor by detaching mains cord or DC power cord, wait for 6 seconds, then attach the mains cord or DC power cord for normal operation.

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

Installation Locations

AVOID HEAT AND COLD EXTREMES

• Do not store or use the LCD monitor in locations exposed to heat, direct sunlight, or extreme cold.
• Avoid moving the LCD monitor between locations with large temperature differences. Choose a site falling within the following temperature and humidity ranges.

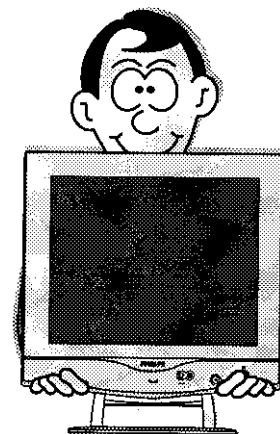Temperature: 5-35°C   41-95°F
Humidity: 20-80% RH

• Do not subject the LCD monitor to severe vibration or high impact conditions. Do not place the LCD monitor inside a car trunk.

• Take care not to mishandle this product by either knocking or dropping during operation or transportation.
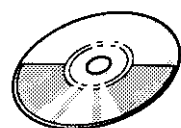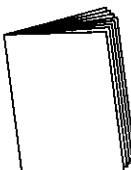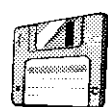• Do not store or use the LCD monitor in locations exposed to high humidity or dusty environment. Also do not allow water or other liquids to spill on or into the LCD monitor.
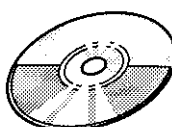
Correct handling of the monitor

1. When handling the monitor, grip the bottom firmly with both hands and ensure that the front panel faces outward before lifting. Please refer to the diagram on the right.
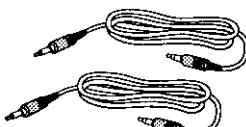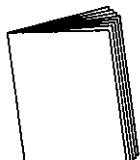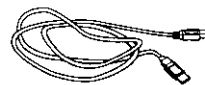2. Handling the monitor with care prevents scratching and damage. If the monitor becomes damaged, immediately disconnect the power from the unit and have it checked by a qualified service person before using it again.
3. Do not drop the monitor to prevent fire or electrical shock.
4. When moving the monitor, be sure to unplug all power cords in order to avoid injury or damage to the equipment.

Accessories

1. Power cable

2. Windows disk driver

3. Macintosh adapter (optional)

4. User's manual

5. CD-ROM (User's Manual)

6. Warranty Card

7. Quick Set-up Guide

8. Signal cable

9. CustoMax User's Manual

10. CustoMax CD-ROM

11. Audio cable

12. USB cable
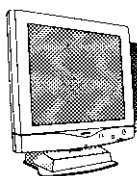
VIDEO SETTINGS

Before connecting your LCD Monitor to the PC, amke sure that the computer's video settings (resolution and frequency) are in accordance with those below.

Vertical Refresh Rate : 56Hz-75Hz
Horizontal Frequency :30KHz-82KHz

NOTE: 1.The maximum resolution of this LCD monitor is 1280x1024 at maximum Vertical Refresh Rate of 75Hz
2.Recommended video mode is 1280x1024 at Vertical Refresh Rate of 60Hz.
3.Interlace mode is not applicable.

CD Installation

When prompted by the Operating System for the LCD Monitor drivers, insert CD and select the CD-ROM drive as the disk containing the drivers.

Windows 98

Windows 98 will atuo-detect the new monitor and setup the correct parameters. If it does not auto-detect the new monitor use Manual Install.

To manually install or update the driver, click on START, SETTINGS, CONTROL PANEL, DISPLAY, SETTINGS tab, ADVANCED, MONITOR tab, CHANGE. This will start the "Update Device Driver Wizard". Follow the prompts to install the driver.

Windows 95

Click on START, SETTINGS, CONTROL PANEL, DISPLAY, SETTINGS tab, ADVANCED PROPERTIES MONITOR tab, CHANGE, HAVE DISK. Install the CD-ROM.
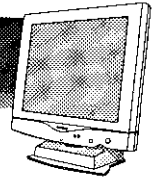
Follow the steps below to connec your LCD Monitor to PC.

1 Remove the back cover by slightly lifting up.
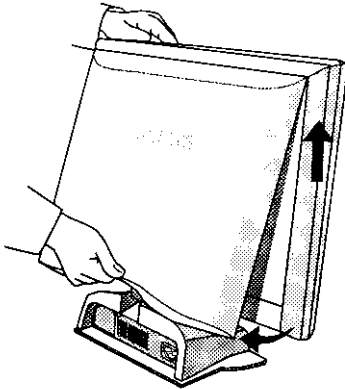
2 Remove the plastic ring from the hinge.
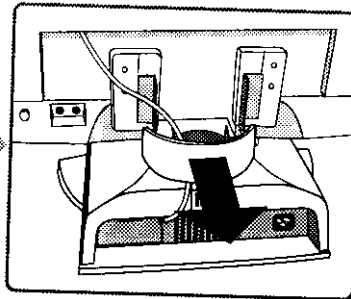
3 Plug in the video cable to the VGA or BNC connector.

4 Connect the audio cables to the audio jack.

Microphone (red connector)

Audio speaker (blue connector)
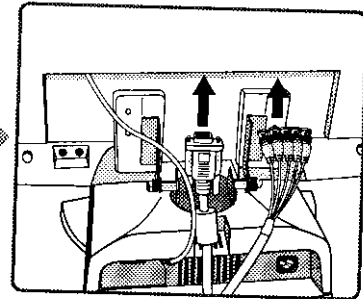
7 Blue connector for audio (speaker)

Red connector for microphone
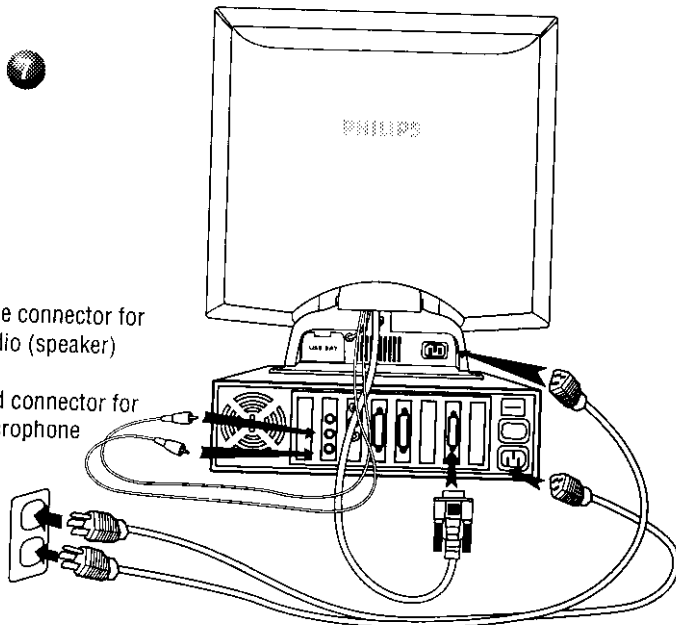
Plug the power cable into the monitor and then connect the monitor cables to the computer.
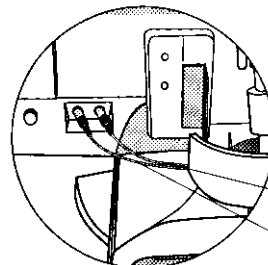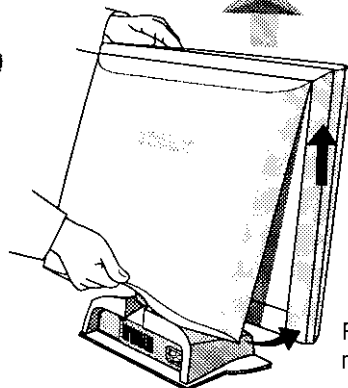
6 Replace back cover on the monitor.
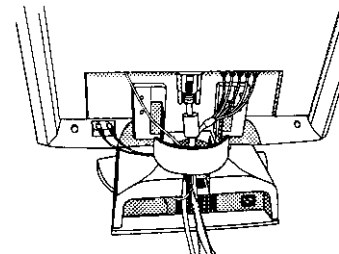
5 Cover the cables with the plastic ring and put it back on the hinge.

USB CONTROL

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. Philips 181AS comes with a special software, CustoMax™, to control the monitor from PC via USB connection.

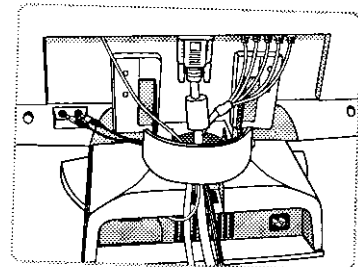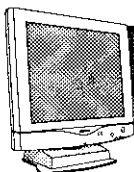To install the USB cable for this control function. You may connect the monitor directly or connect to USB hub (if you have) to the PC down stream port.
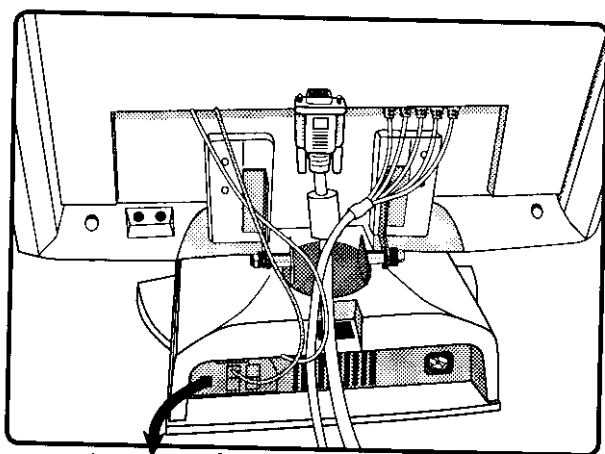
to computer's
USB port
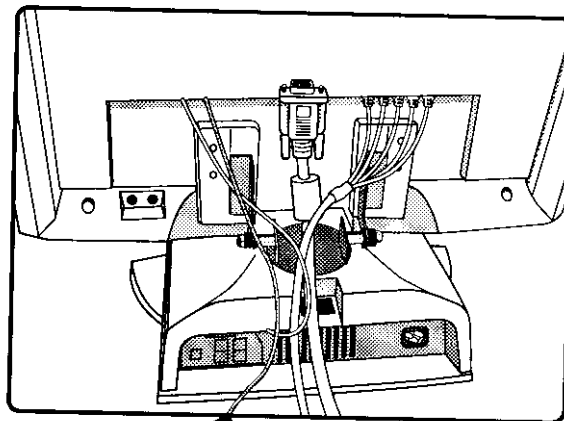
to computer's
USB port

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

USB HUB INSTALLATION

Philips provides for the optional USB Hub so you will be ready to take advantage of this advancement in computer development.

For an IBM-compatible Computer:

1. Turn off the computer.

2. Insert the (optional) USB Hub and connect the USB cable to the computer. (Computer must have USB port.)

3. Turn on the monitor. Then turn on the computer.

4. With the installation of the correct software, you will be able to connect USB peripherals to the monitor's USB Hub.

Note:

1-USB Hub and cables sold separately. The USB Bay is located in back of monitor.

2- Please refer to the USB Hub's manual and installation guide for more details.

PHILIPS
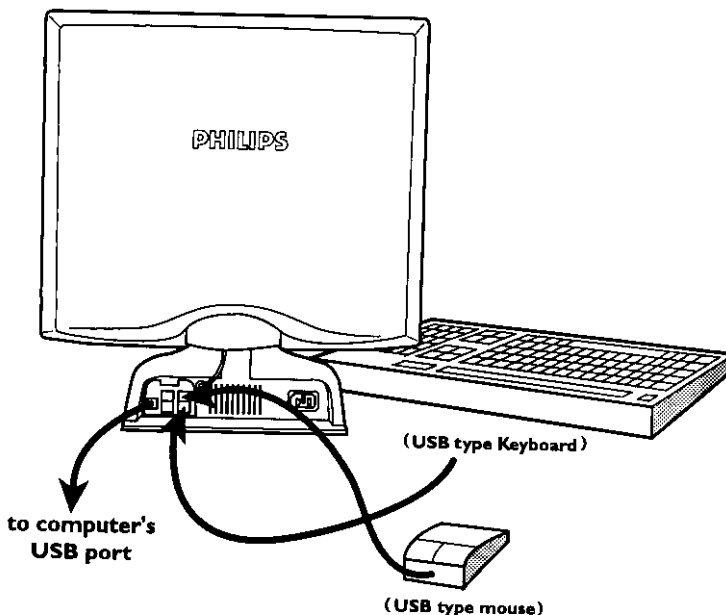
(USB type Keyboard)

to computer's
USB port

(USB type mouse)

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

FRONT VIEW

Brightness Button – Press this button and use the rotary know to adjust the brightness of the screen.

LED – Light Emitting Diode turns green when the monitor is on.
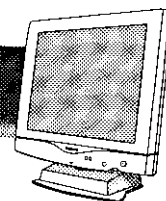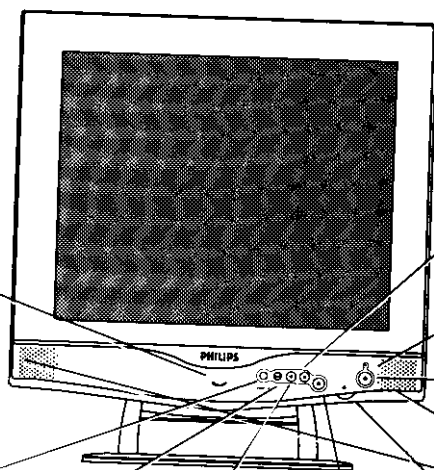
Built-in Microphone – Allows you to "speak" to your computer.

Video 1-2 – Allows you to switch over two video inputs.

Power Button – Turns the monitor On and Off.

Speakers – Transmit sounds from your computer or amplifier.

AUTO Adjust Button – Press this button to return to factory default video modes for optimal picture quality.

Mute Button – Mutes the sound from the speakers and the earphones. Press to turn mute on or off. See next page for details.

On Screen Display (OSD) button – Brings up the On Screen Display and helps you navigate through it.

Rotary Knob – Helps guide you through the On Screen Display. When not used with the OSD button, can also adjust the volume. See page 12.

REAR VIEW
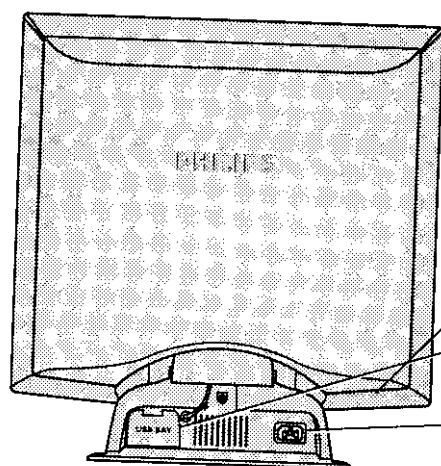
Kensington Lock Socket – A special feature to lock your monitor for anti-theft.

USB Bay –Slot for plugging in USB Hub. Optional hardware that allows true Plug-and-Play. See page 4 for installation details.

Power Plug – Plug the AC power cord in here. See Setting-up foldout for details.

DOWN   **UP**

LEFT   **RIGHT**
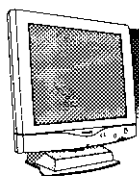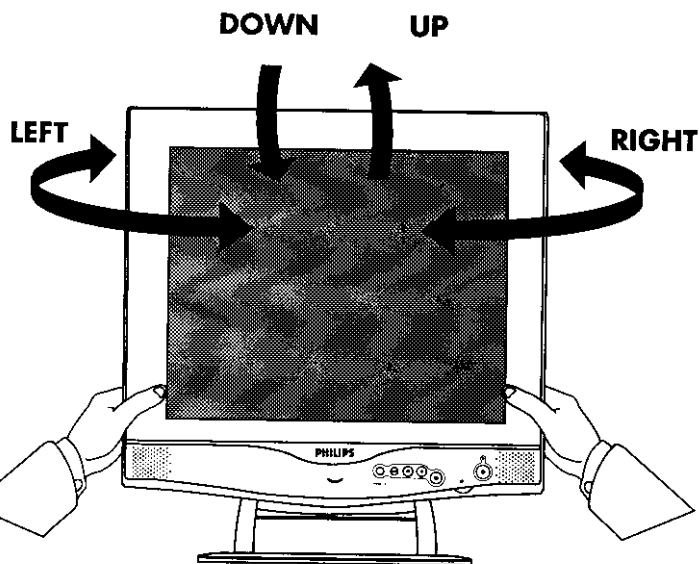
Pedestal - With the built-in pedestal, you can tilt and swivel the monitor to the most comfortable viewing angle. For best viewing, always place the monitor at eye level. This pedestal can be separated from the main LCD monitor body for mechanical arm or wall-mount applications.(as specified within manufactuer's recommendations)

NOTE: DO NOT REMOVE WITHOUT FIRST READING "REMOVING INSTRUCTIONS" FOUND IN THE GUIDE BUNDLED WITH THE ACCESSORIES.

Using the OSD Button -
To use the OSD function, please refer to page 8 for details.
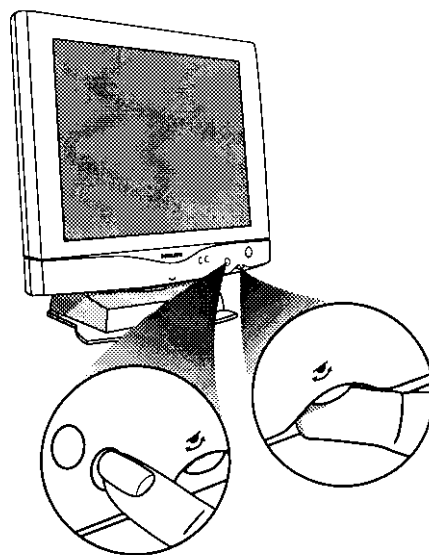
Using rotary knob for AUDIO
- Turn rotary knob to adjust audio level.

NOTE: THIS ROTARY IS USED FOR OSD OPERATION WHEN THE OSD BUTTON IS PRESSED.

Using the Auto Button -
Press this button to return to factory default video mode for optimal picture quality.

MUTE   MUTE

ON   OFF
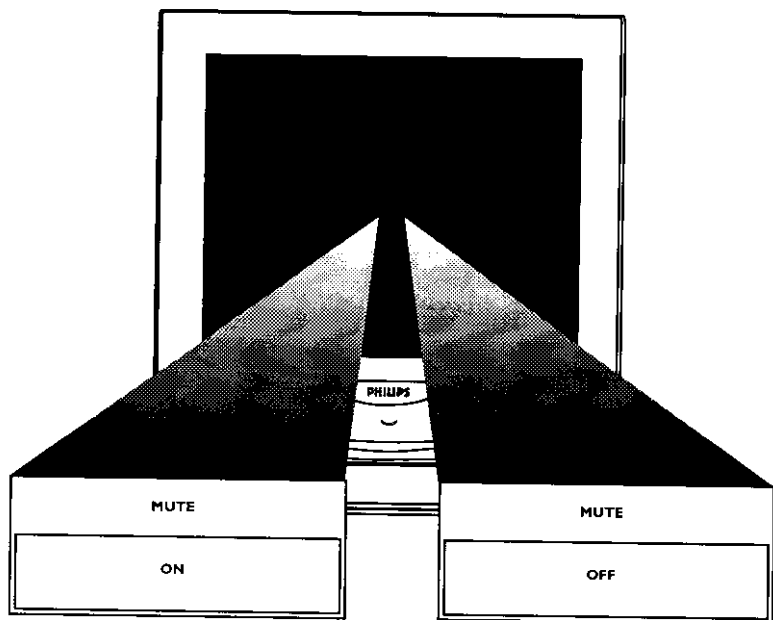
Using the Mute Button - To turn the mute On or Off press the mute button. For Audio model.
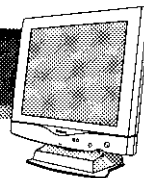
On Screen Display - Your monitor is preset at the factory for normal operation. However, you can adjust it using the On Screen Display Button and the Rotary Knob as described on Page 6. Below is a brief description of the four windows on the On Screen Display function.

The first window highlighted after the OSD has been selected. By default, the select block will be on "Birghtness". It has five features: Brightness, Contrast, Volume, Phase Adjustment and Clock Adjustment. To adjust the three features, turn to pages 11 - 13.

OSD Button

BRIGHTNESS

EXIT

RESET

1024x768   60K/75HZ
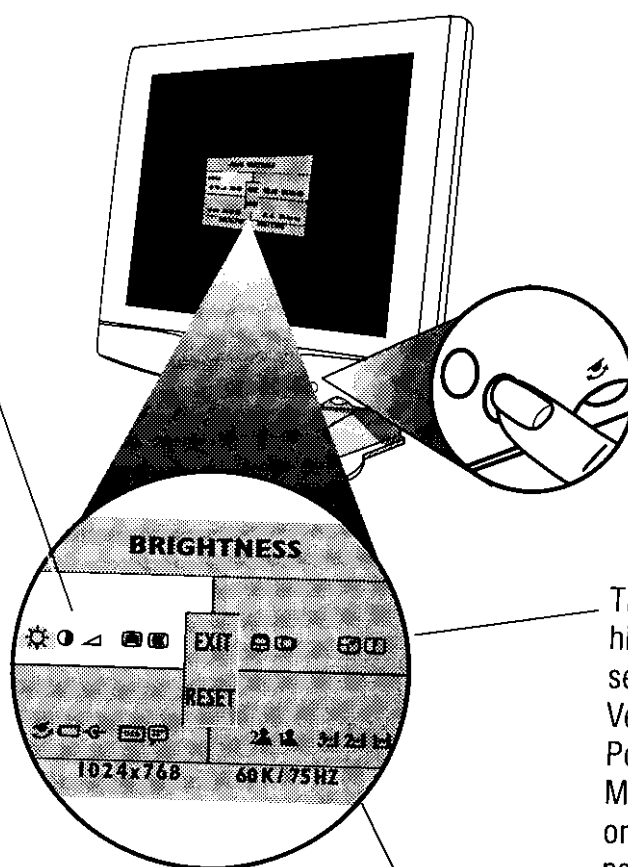
This is the second window highlighted after the OSD has been selected. The four features are: Vertical Position, Horizontal Position, Display Size and Expand Mode Optimization. More details on adjusting these features are on pages 14 & 15.

The fourth window features: Language, OSD Controls, Video Input Priority, Power Saving, and Rotary Default. Details on adjusting these features are on pages 18 - 20.
Note: Language allows you to change the On Screen Display from English to French, Spanish, German, or Italian. See Page 18 for more details.

The third window highlighted is the adjustment of the Color Temperature. Select the color temperature you prefer or make your own with User Setting 1 or 2. Details are on pages 16 - 17.
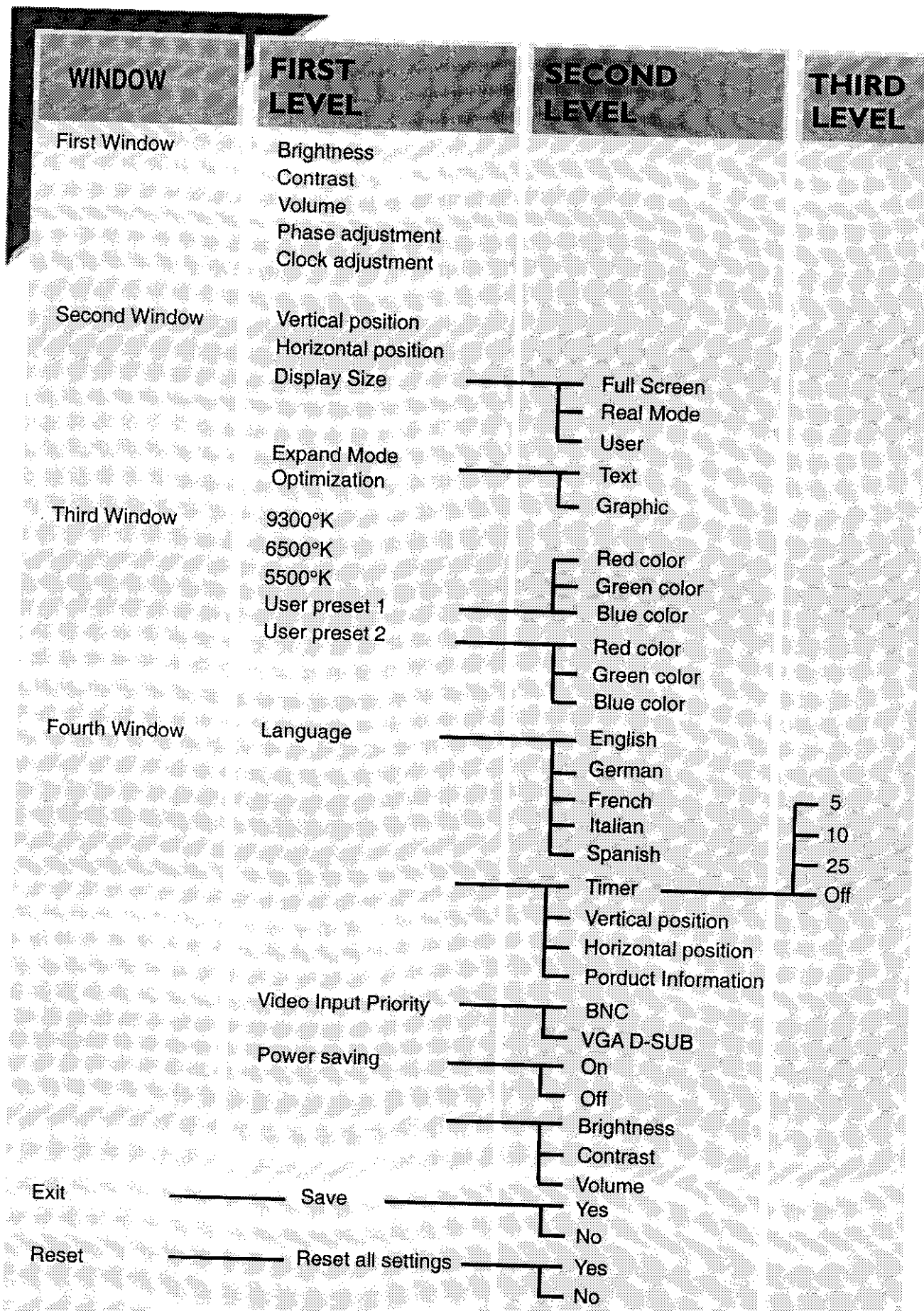
WINDOW	FIRST LEVEL	SECOND LEVEL	THIRD LEVEL
First Window	Brightness		
	Contrast		
	Volume		
	Phase adjustment		
	Clock adjustment		
Second Window	Vertical position		
	Horizontal position		
	Display Size	Full Screen	
		Real Mode	
		User	
	Expand Mode		
	Optimization	Text	
		Graphic	
Third Window	9300°K		
	6500°K		
	5500°K	Red color	
	User preset 1	Green color	
		Blue color	
	User preset 2	Red color	
		Green color	
		Blue color	
Fourth Window	Language	English	
		German	
		French	
		Italian	5
		Spanish	10
		Timer	25
			Off
		Vertical position	
		Horizontal position	
		Porduct Information	
	Video Input Priority	BNC	
		VGA D-SUB	
	Power saving	On	
		Off	
		Brightness	
		Contrast	
		Volume	
Exit	Save	Yes	
		No	
Reset	Reset all settings	Yes	
		No	

BRIGHTNESS

To adjust your screen's brightness, follow the steps below. Brightness is the overall intensity of the light coming from the screen.

1 Press the OSD button.

2 By default, the BRIGHTNESS icon is highlighted.

BRIGHTNESS

3 Press the OSD button to bring up BRIGHTNESS screen.

BRIGHTNESS
192

EXIT OSD

5 Press the OSD button to return to EXIT window.

4 Turn the ROTARY knob to adjust the brightness.
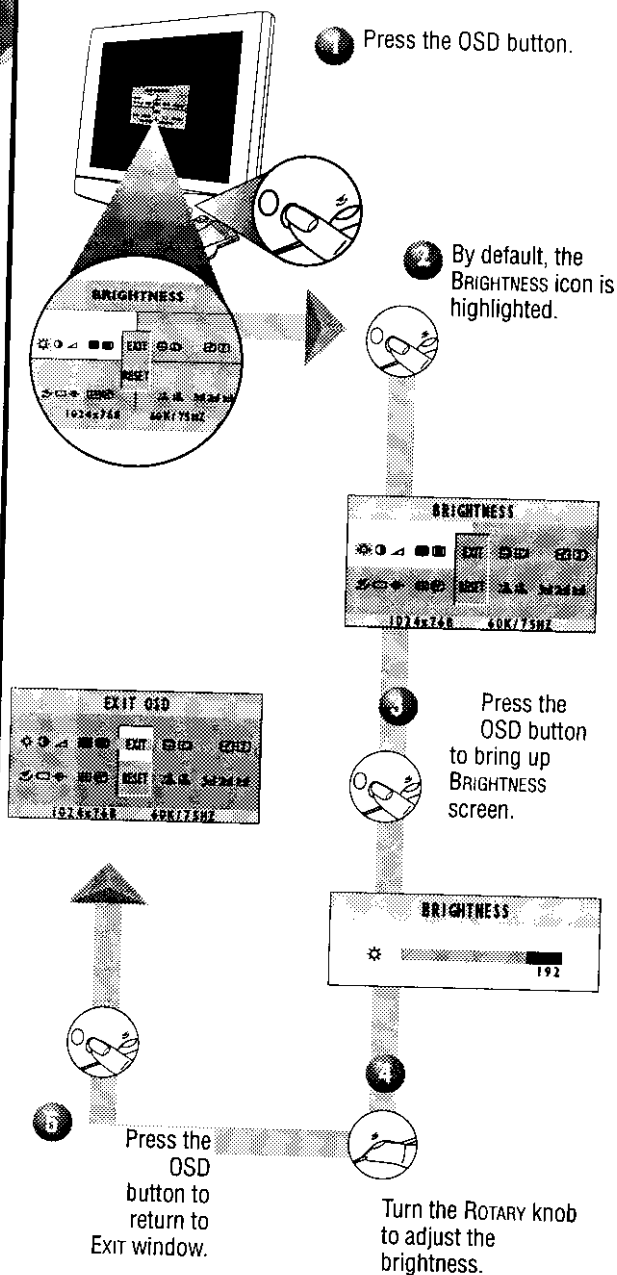
CONTRAST

To adjust your screen's contrast, follow the steps below. Contrast is the difference between the brightest and darkest areas on the screen.
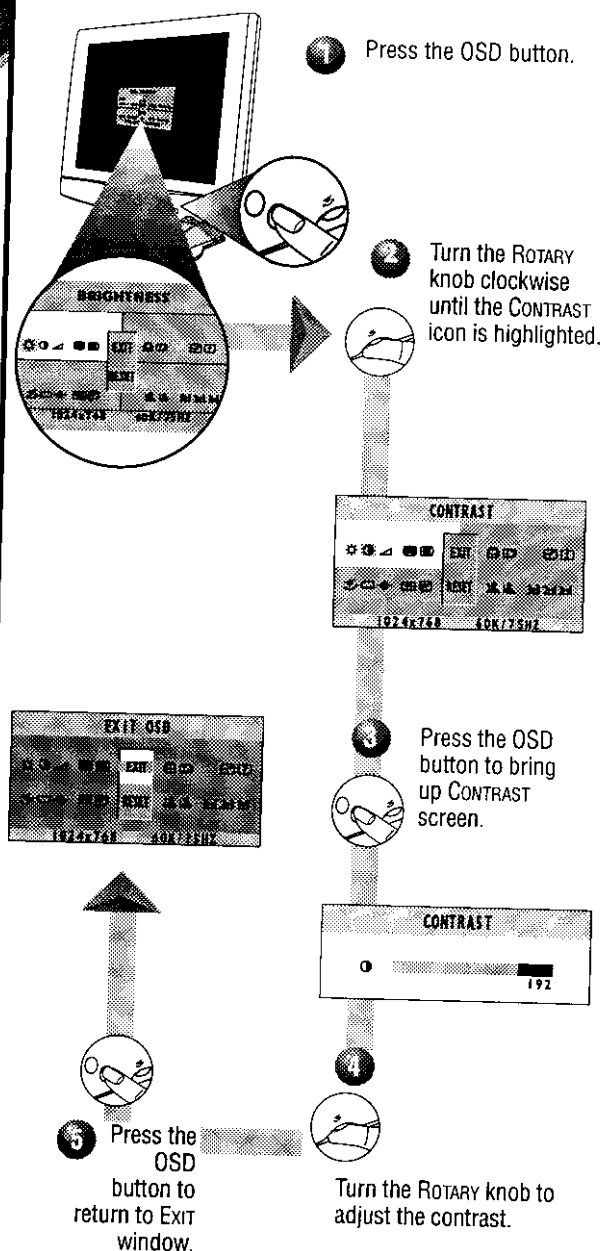
1 Press the OSD button.

2 Turn the ROTARY knob clockwise until the CONTRAST icon is highlighted.

BRIGHTNESS

3 Press the OSD button to bring up CONTRAST screen.

CONTRAST

CONTRAST
192

EXIT OSD

5 Press the OSD button to return to EXIT window.

4 Turn the ROTARY knob to adjust the contrast.

VOLUME

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

1 Press the OSD button.

2 Turn the ROTARY knob clockwise until the VOLUME icon is highlighted.

3 Press the OSD button to bring up VOLUME screen.

4 Turn the ROTARY knob to adjust the volume.

5 Press the OSD button to return to EXIT window.

After returning to Exit . . .

. . . to continue to Phase Adjustment, turn the ROTARY knob clockwise until the PHASE ADJUSTMENT icon is highlighted. Next, follow steps 3-5 under PHASE ADJUSTMENT.
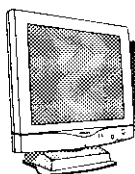
. . . to exit completely, press the OSD button and choose either SAVE or NO SAVE in setting mode, then push OSD button to exit OSD. (See page 21 for other exit options.)

PHASE ADJUSTMENT

Phase Adjustment reduce the horizontal flicker of characters on the screen to a minimum.

1 Press the OSD button.

2 Turn the ROTARY knob clockwise until the PHASE ADJUSTMENT icon is highlighted.

3 Press the OSD button to bring up PHASE ADJUSTMENT screen.

4 Turn the ROTARY knob to adjust the Phase Adjustmen.

5 Press the OSD button to return to EXIT window.

After returning to Exit . . .

. . . to continue to the Clock Adjustment, turn the ROTARY knob clockwise until the CLOCK ADJUSTMENT icon is highlighted. Next, press the OSD button. Follow steps 3-5 under CLOCK ADJUSTMENT (on the next page).

. . . to exit completely, press the OSD button and choose either SAVE or NO SAVE in setting mode, then push OSD button to exit
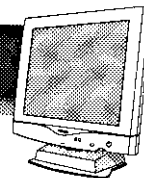
CLOCK ADJUSTMENT

Clock Adjustment reduce the vertical flicker of characters on the screen to a minimum.
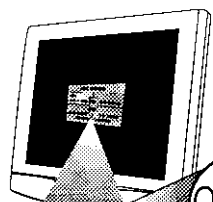
1 Press the OSD button.

2 Turn the ROTARY knob clockwise until the CLOCK ADJUSTMENT icon is highlighted.

CLOCK ADJUSTMENT

1024x768   60K/75HZ
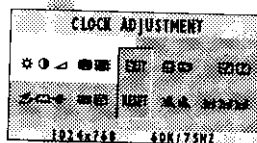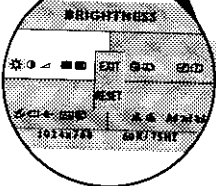
3 Press the OSD button to bring up the CLOCK ADJUSTMENT screen.

CLOCK ADJUSTMENT

14 16

EXIT OSD

5 Press the OSD button to return to EXIT window.

4 Turn the ROTARY knob until the image on the monitor does not flicker.

SMART HELP

After returning to Exit . . .

. . . to continue to the Vertical Position, turn the ROTARY knob until the VERTICAL POSITION icon in the second window is highlighted. Next, follow steps 3-5 under VERTICAL POSITION (on the next page).

. . . to exit completely, press the OSD button and choose either SAVE or NO SAVE in setting mode, then push OSD button to exit OSD. (See page 21 for other exit options.)
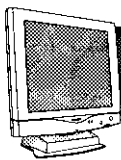
VERTICAL POSITION

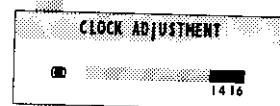Vertical Position adjusts the image on your screen either up or down. Use this feature if your image does not appear centered.

① Press the OSD button.

② Turn the ROTARY knob until the VERTICAL POSITION icon is highlighted.

③ Press the OSD button to bring up the VERTICAL POSITION screen.

④ Turn the ROTARY knob until the image is vertically balanced.

⑤ Press the OSD button to return to EXIT window.

SMART HELP

After returning to Exit . . .

. . . *to continue to the Horizontal Position*, turn the ROTARY knob until the HORIZONTAL POSITION icon is highlighted. Next, follow steps 3-5 under HORIZONTAL POSITION.

. . . *to exit completely*, press the OSD button and choose either SAVE or NO SAVE in setting mode, then push OSD button to exit OSD. (See page 21 for other exit options.)
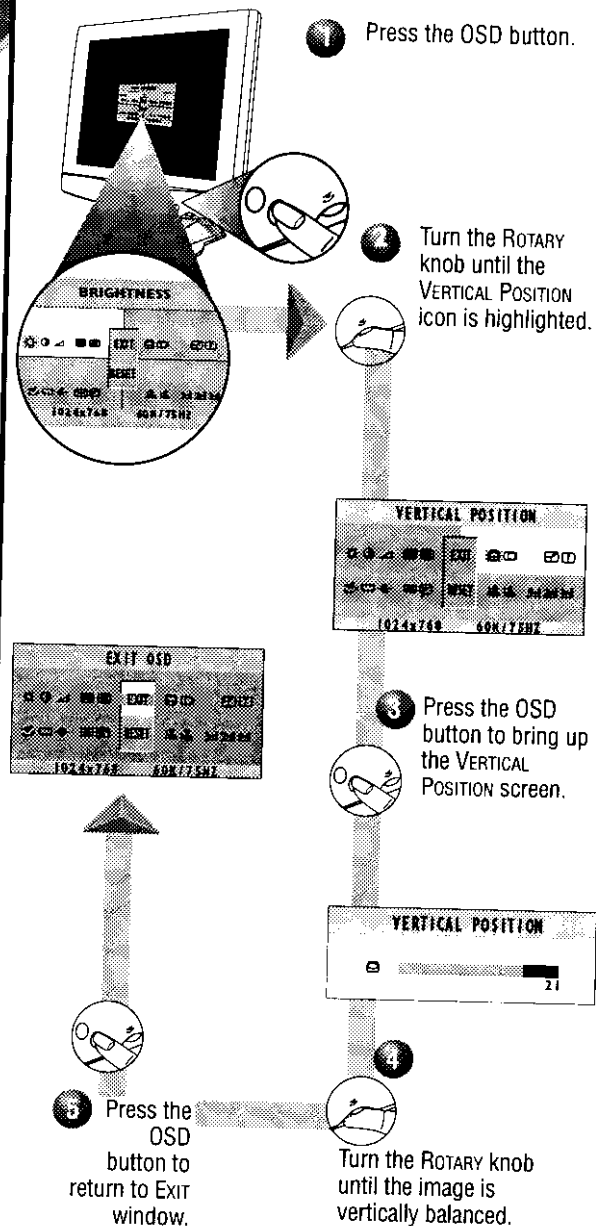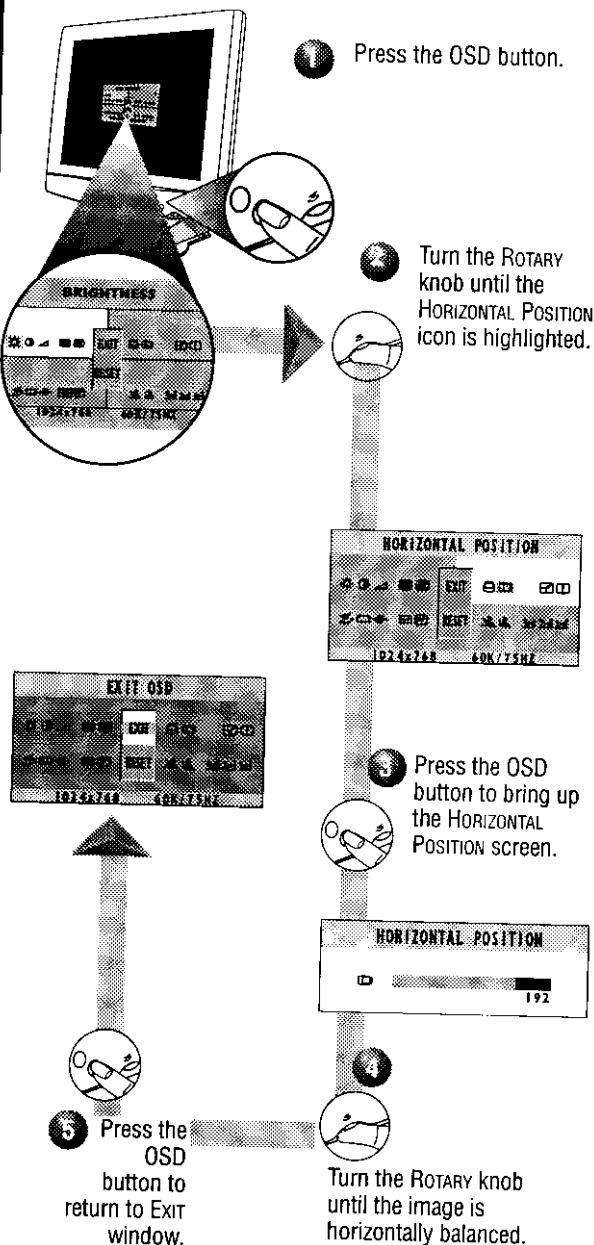
HORIZONTAL POSITION

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 OSD button.

② Turn the ROTARY knob until the HORIZONTAL POSITION icon is highlighted.

③ Press the OSD button to bring up the HORIZONTAL POSITION screen.

④ Turn the ROTARY knob until the image is horizontally balanced.

⑤ Press the OSD button to return to EXIT window.

SMART HELP

After returning to Exit . . .

. . . *to continue to Display Size*, turn the ROTARY knob until DISPLAY SIZE is highlighted. Next, follow steps 3-5 under DISPLAY SIZE.

. . . *to exit completely*, press the OSD button and choose either SAVE or NO SAVE in setting mode, then push OSD button to exit OSD. (See page 21 for other exit options.)
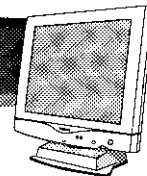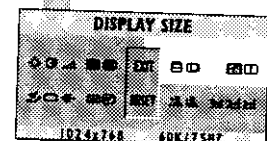
Display Size

Display Size allows you to adjust picture size when input video mode under 1280 x 1024. It has 3 options, full screen, real mode, and user's setting.

Press the OSD button.

Turn the ROTARY knob until the DISPLAY SIZE icon is highlighted.

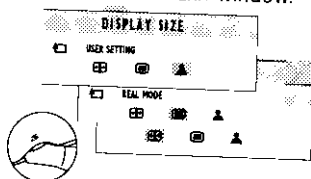**BRIGHTNESS**

DISPLAY SIZE

1024x768   60K/75HZ

Press the OSD button to bring up the DISPLAY SIZE screen.

DISPLAY SIZE

FULL SCREEN

Turn the ROTARY knob to select FULL SCREEN, REAL MODE, or USER SETTING.

EXIT OSD

1024x768   60K/75HZ

Press the OSD button to return to EXIT window.

**DISPLAY SIZE**

USER SETTING

REAL MODE

Expand Mode Optimization

Expand Mode Optimization is available when input video mode under 1280 x 1024. It helps you to select the best display quality for different application, text or graphic oriented.

Press the OSD button.

Turn the ROTARY knob until the EXPAND MODE icon is highlighted.

BRIGHTNESS

EXPAND MODE OPTIMIZATION
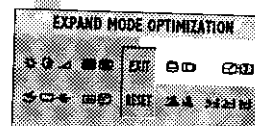
Press the OSD button to bring up the EXPAND MODE screen.

EXIT OSD

1024x768   60K/75HZ

EXPAND MODE OPTIMIZATION

TEXT   GRAPHIC

0

Press the OSD button to return to EXIT window.
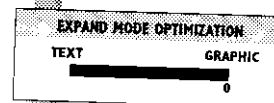
Turn the ROTARY knob to adjust the monitor to be TEXT or GRAPHIC mode.

5500 K, 6500 K OR 9300 K
COLOR TEMPERATURE

3 **2** **1** Your monitor has three preset options for color temperatures from which you can choose from. One 6500 K option for Desktop Publishing (DTP). Another 9300 K option for Computer Aided Design (CAD) work. The other 5500 K option for photo retouch. When you select an option, the computer automatically adjusts itself for that color temperature. Monitor default setting for color temperatures is 6500 K.

Press the OSD button.

Turn the ROTARY knob until one of the COLOR TEMPERATURE icons is highlighted.

9300°K COLOR

1024x768   60K/75HZ

9300°K COLOR

6500°K COLOR

5500°K COLOR

1024x768   60K/75HZ

Turn the ROTARY knob until 9300°K, 6500°K or 5000°K is highlighted.

EXIT OSD

1024x768   60K/75HZ

Press the OSD button to return to the EXIT window.

Press the OSD button to confirm the selection.

USER PRESETS

2 🧑 **1** 🧑 If you need to adjust for the color temperature you like, follow the steps below to modify the colors that appear on your screen. You can make individual adjustments to each of the preset options.

1 Press the OSD button.
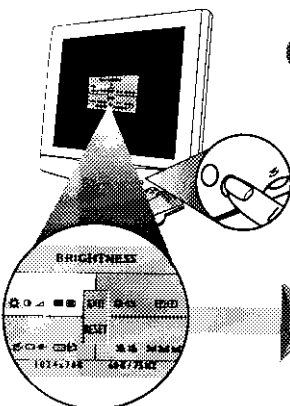
2 Turn the ROTARY knob until one of the USER PRESET icons is highlighted.

USER PRESET 1

1024x768   60K/75HZ

EXIT OSD

1024x768   60K/75HZ
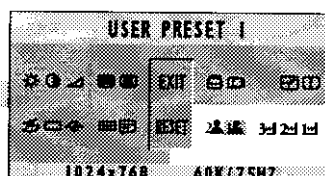
9 You will now be back at the EXIT window. See SMART HELP below for options.

USER 1
RED 220
GREEN 220
BLUE 220

8 To exit USER PRESET **1**🧑 , press the OSD button. Next, press the OSD button again to return to EXIT window.

3 If necessary, turn the ROTARY knob until **1**🧑 of the USER PRESETS is highlighted. Next, press the OSD button to confirm the selection.

USER 1
RED 220
GREEN 220
BLUE 220

USER 1
RED 220
GREEN 220
BLUE 220

USER 1
RED 255
GREEN 255
BLUE 255

7 When done with green, press the OSD button. BLUE will be highlighted. Then, turn the ROTARY knob to increase or decrease the blue.

6 When done with red, press the OSD button. GREEN will be highlighted. Then, turn the ROTARY knob to increase or decrease the green.

4 First, RED will be highlighted.

USER 1
RED 220
GREEN 255
BLUE 255

5 Next, to adjust the red, press the OSD button again. Then, turn the ROTARY knob to increase or decrease the red.

SMART HELP

After returning to Exit . . .

. . . *to continue to User Preset 2*, repeat steps 3 through 7, selecting USER PRESET 2.

. . . *to continue to Language*, turn the ROTARY knob until LANGUAGE ICON is highlighted. Next, press the ON SCREEN DISPLAY button. Now, follow steps e - 5 under LANGUAGE on the next page.

. . . *to exit the On Screen Display completely*, press the OSD button and choose either SAVE or NO SAVE in setting mode, then push OSD button to exit OSD. (See page 21 for other exit options.)
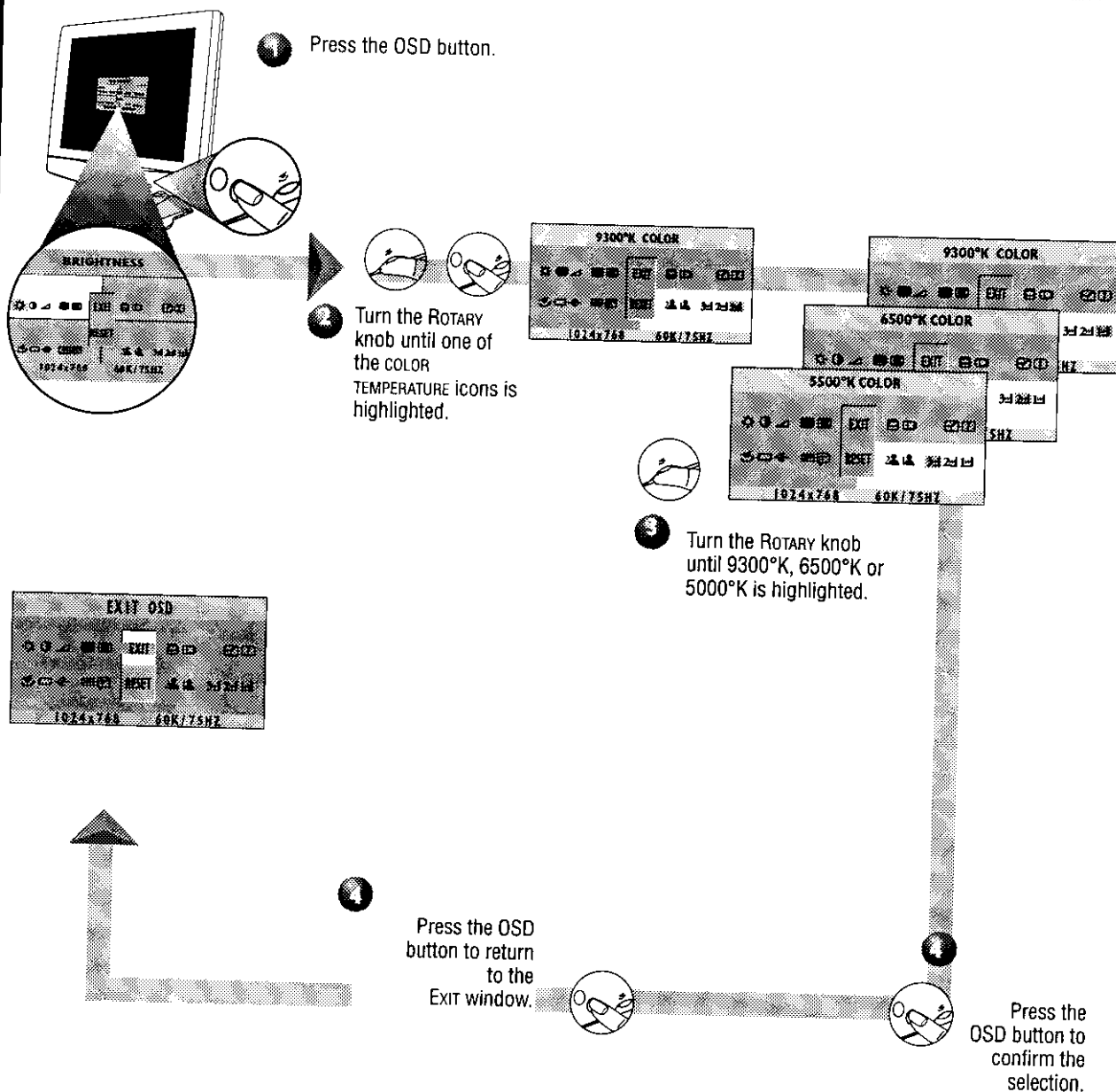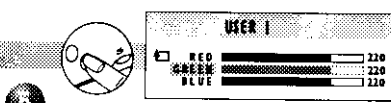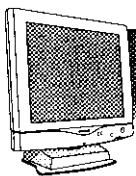
FOURTH WINDOW

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.

Press the OSD button.

Turn the ROTARY knob until the LANGUAGE icon is highlighted.

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

Turn the ROTARY knob until the desired language is selected.

Press the OSD button to return to EXIT window.

After returning to EXIT . . .

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

. . . to exit completely, press the OSD button and choose either SAVE or NO SAVE in setting mode, then push OSD button to exit OSD. (See page 21 for other exit options.)
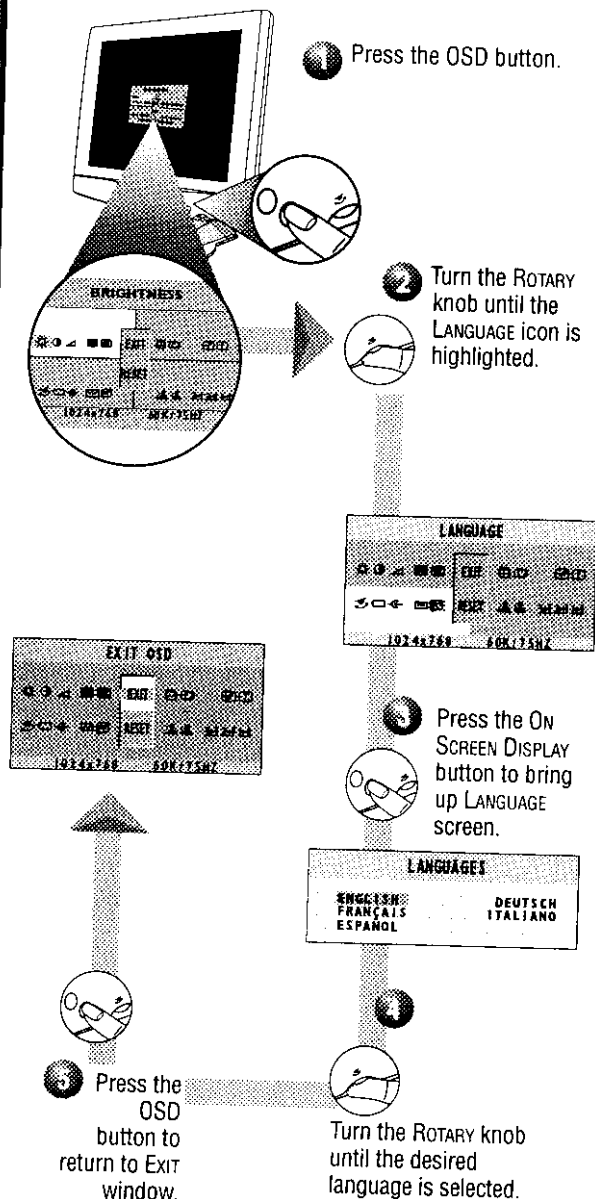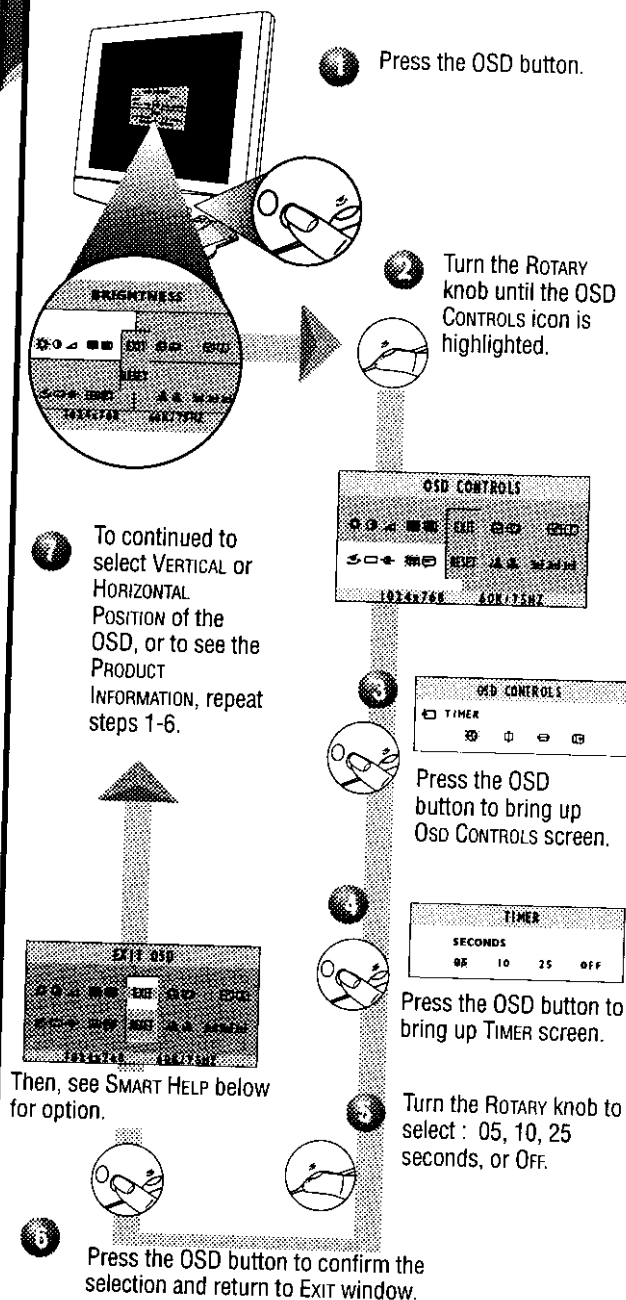
OSD CONTROLS

WITH OSD CONTROLS, you can set the time for the On Screen Display to time out, change the vertical and horizontal position of the OSD on the monitor screen. Besides, it contains the PRODUCT INFORMATION, including serial number and hours of operation for your reference.

Press the OSD button.

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

To continued to select VERTICAL or HORIZONTAL POSITION of the OSD, or to see the PRODUCT INFORMATION, repeat steps 1-6.

Then, see SMART HELP below for option.

Press the OSD button to bring up OSD CONTROLS screen.

Press the OSD button to bring up TIMER screen.

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

Press the OSD button to confirm the selection and return to EXIT window.

After returning to EXIT . . .

. . . to continue to VIDEO INPUT PRIORITY, turn the ROTARY knob until the VIDEO INPUT PRIORITY icon is highlighted. Next, follow steps 3-5 under VIDEO INPUT PRIORITY (on the next page).

. . . to exit completely, press the OSD button and choose either SAVE or NO SAVE in setting mode, then push OSD button to exit OSD. (See page 21 for other exit options.)
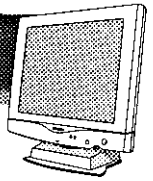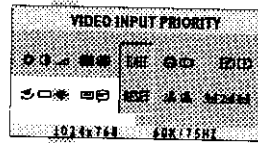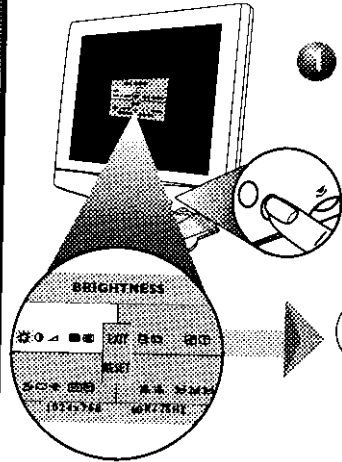
VIDEO INPUT PRIORITY

VIDEO INPUT PRIORITY is to define which video source firstly displays on the screen when both two video sources are available to the monitor.
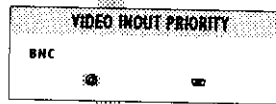
1 Press the OSD button.

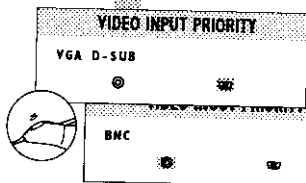**2** Turn the ROTARY knob until the VIDEO INPUT PRIORITY icon is highlighted.

EXIT OSD

VIDEO INPUT PRIORITY

1024x768   60K/75HZ

3 Press the OSD button to bring up VIDEO INPUT PRIORITY screen.

5 Press the OSD button to return to EXIT window.

VIDEO INOUT PRIORITY

BNC

VIDEO INPUT PRIORITY

VGA D-SUB

VIDEO INOUT PRIORITY

BNC

4 Turn the ROTARY knob to select BNC OR VGA D-SUB.

After returning to EXIT . . .

. . . *to continue to POSER SAVING*, turn the ROTARY knob until POSER SAVING is highlighted. Next, follow steps 3-5 under POWER SAVING.

. . . *to exit completely*, press the OSD button and choose either SAVE or NO SAVE in setting mode, then push OSD button to exit
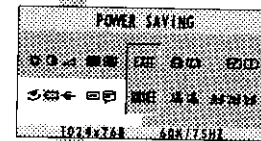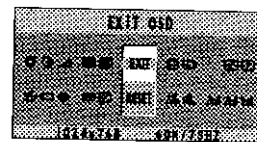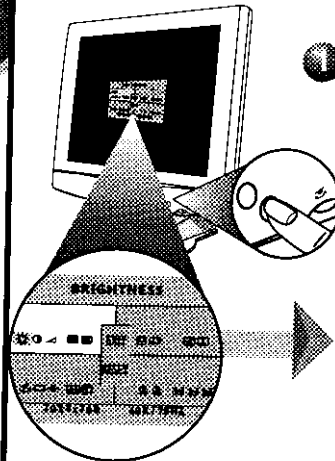
POWER SAVING

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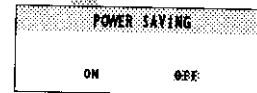
1 Press the OSD button.

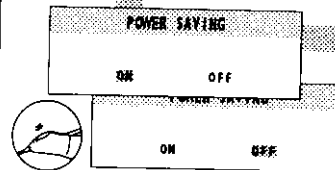**2** Turn the ROTARY knob until the POWER SAVING icon is highlighted.

EXIT OSD

POWER SAVING

1024x768   60K/75HZ

3 Press the OSD button to bring up POWER SAVING screen.

5 Press the OSD button to return to EXIT window.

POWER SAVING

ON   OFF

POWER SAVING

ON   OFF

4 Turn the ROTARY knob to select POSER SAVING ON or OFF.

After returning to EXIT . . .

. . . *to continue to Rotary Default*, turn the ROTARY knob until the ROTARY DEFAULT icon is highlighted. Next, follow the steps 3-5 under ROTARY DEFAULT.

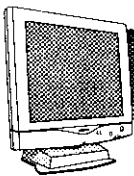. . . *to exit completely*, press the OSD button and choose either SAVE or NO SAVE in setting mode, then push OSD button to exit

Rotary Default

Rotary Default allows you to pick the feature your Rotary knob will default to when not used in adjusting your OSD. The normal default is brightness. To select your Rotary Default, follow the steps below.
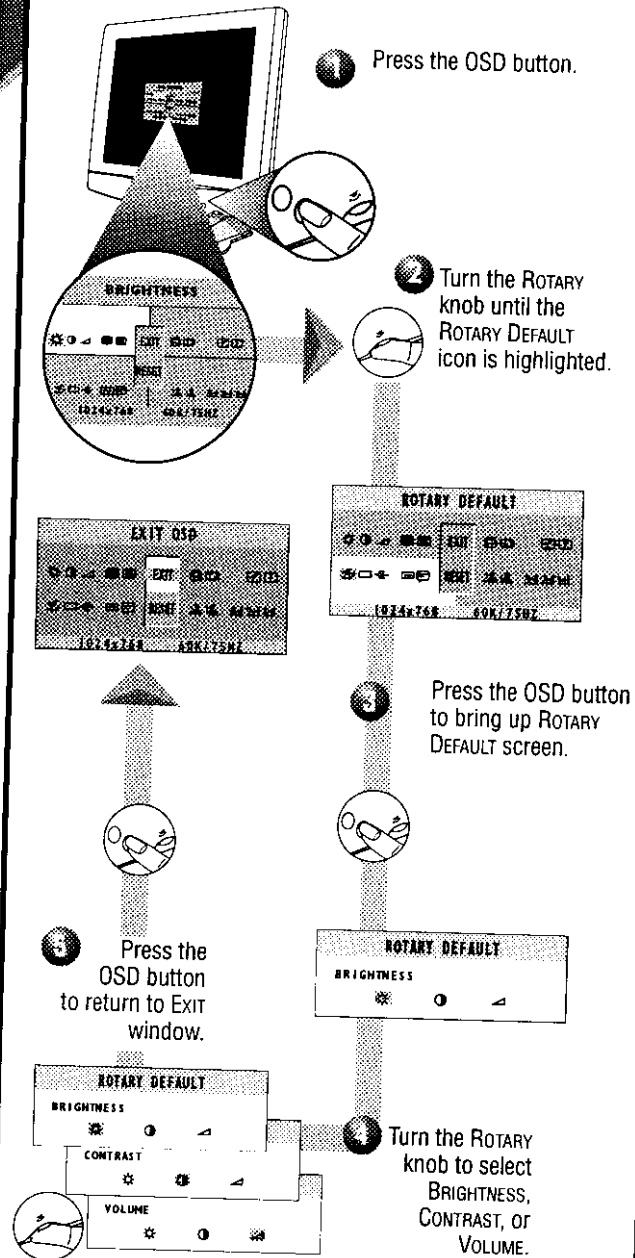
Press the OSD button.

Turn the Rotary knob until the Rotary Default icon is highlighted.

Press the OSD button to bring up Rotary Default screen.

Press the OSD button to return to Exit window.

Turn the Rotary knob to select Brightness, Contrast, or Volume.

HOW TO USE THE ON SCREEN DISPLAY (OSD)

EXIT OR RESET

EXIT

Choosing Exit allows you to save results of adjustment on settings and exit the OSD screen.
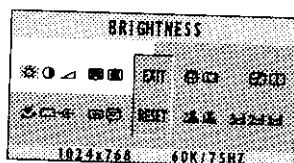
BRIGHTNESS

1024x768   60K/75HZ

1. When you are at the first level control window. For example the BRIGHTNESS icon is highlighted.

EXIT OSD

1024x768   60K/75HZ

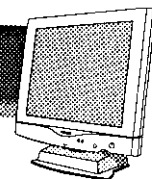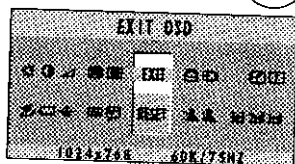2. Turn the ROTARY knob until Exit is highlighted. Next, press the OSD button.

SAVE

YES   NO
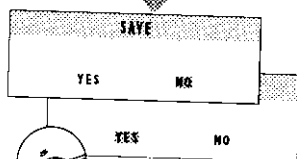
3. The settings mode is now highlighted. Turn the Rotary knob to select YES or No. Then, press the OSD button to EXIT.

RESET

Choosing RESET returns all the settings in that window to factory presets.
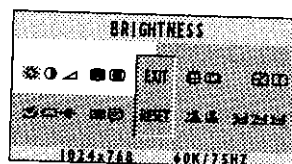
BRIGHTNESS

1024x768   60K/75HZ

1. When you are at the first level control window. For example the BRIGHTNESS icon is highlighted.

RESET ALL SETTINGS

1024x768   60K/75HZ
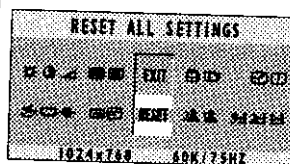
2. Turn the ROTARY knob until RESET is highlighted. Next, press the OSD button.

RESET ALL SETTINGS

YES   NO
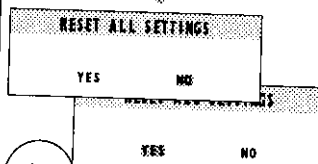
3. Turn the Rotary knob to select RESET ALL SETTINGS, YES or No. Press the OSD button to EXIT.
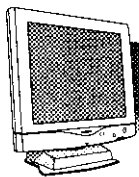
OSD WARNING SIGNAL

The monitor will detect various display situation automatically. When the monitor detects the problems, the screen will automatically show the different warning signals to remind you.

• NO VIDEO INPUT •

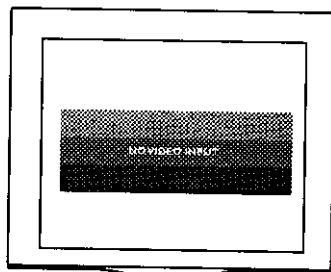This screen appears when there is no video signal input. Please check that the signal cable is properly connected to the graphics board or PC.
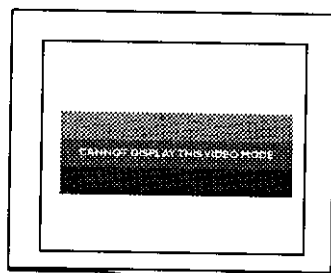
• CANNOT DISPLAY THIS VIDEO MODE •

This screen appears when the input frequency from the computer is not standard video mode or out of the monitor's scanning range. Please change the display mode of the operating software in the computer (i.e. Windows) to 1280 x 1024 @ 60 Hz for best display results.
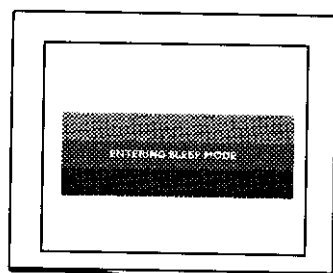
• ENTERING SLEEP MODE •

This screen warns when the monitor is about to enter the sleep mode. Please press any key on the keyboard or click the mouse for waking the monitor and computer.
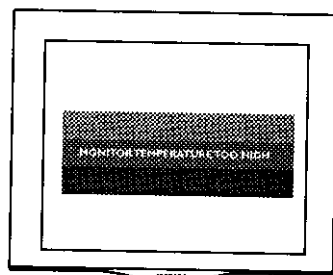
• MONITOR TEMPERATURE TOO HIGH •

This screen apppears for 5 seconds of every 3 minutes , when panel temperature is self-detected to be over 50°C. Please turn off the power switch immediately and check the room temperature if too hot. Don't install LCD monitor under direct sunlight or at high room temperature.
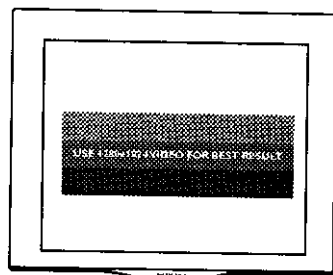
• USE 1280 X 1024 FOR BEST RESULT •

This screen appears when the video mode input is not the recommended 1280 x 1024. Non 1280 x 1024 mode could cause some picture distortion. Please adjust the video mode in 1280 x 1024 at 60 Hz for best display quality.
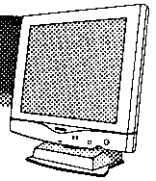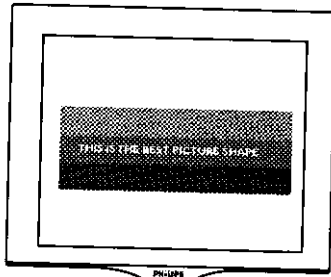
• IT IS THE BEST PICTURE SHAPE •

This screen appears when the picture size is extended to the edge of viewable area with the same video aspect ratio. The picture size can be futher enlarged to full screen size with incorrect aspect ratio if you continuously turn the size control.
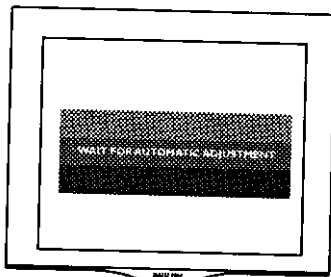
• WAIT FOR AUTOMATIC ADJUSTMENT •

This screen appears when you touch the AUTO button. It will disappear when it finish such AUTO adjustment.
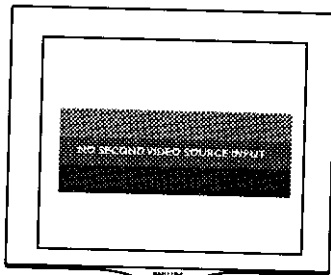
• SECOND VIDEO IS NOT AVAILABLE •

This screen appears when there is no second video source input. Pressing the VIDEO 1-2 BUTTONS on the front of LCD monitor can switch the video input signal between D-sub cable and BNC. This message appears if one of the signals is not available.

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)
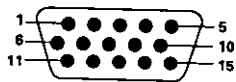
BNC CONNECTOR

The 5 BNC connectors are positioned as following.

Pin	Assignment
R:	Red video input
G:	Green video input
B:	Blue video input
H:	Horizontal sync
V:	Vertical sync

R G B H V
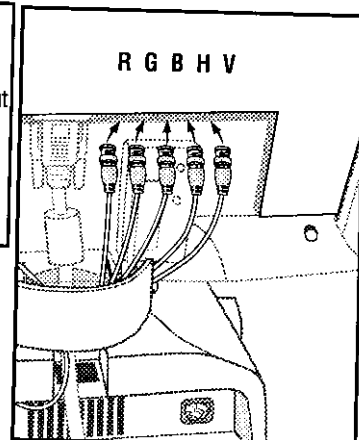
AUTOMATIC POWER SAVING

If you have a VESA DPMS compliant 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 PC & monitor automatically "wake up." The table below shows the power consumption and signalling of the automatic power-saving feature.

Power Management Definition						
VESA mode	Video	H-sync	V-sync	Power used	Power saving(%)	LED color
ON	Active	Yes	Yes	< 48W	0%	Green
Stand-by	Blanked	No	Yes	< 5 W	88.8%	Amber
Suspend	Blanked	Yes	No	< 5 W	88.8%	Amber
OFF	Blanked	No	No	< 5 W	88.8%	Amber

• Above power consumptions exclude USB watts.

• This monitor is ENERGY STAR® compliant and power management compatible.

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

The proper operation of the function requires a computer with VESA DPMS power management capabilities.

SPECIFICATIONS

DISPLAY Type	: 18.1-inch (46 cm) : Flat panel active matrix-TFT LCD
VIEWABLE IMAGE SIZE (VIS)	: 18.1-inch diagonal (46 cm)
SURFACE TREATMENT	: Anti-glare coating
WEIGHT (UNPACKED)	: 8.5kgs
MAXIMUM DIMENSIONS Height Depth Width	: 476 mm : 181 mm : 451 mm
MAXIMUM GRAPHICS RESOLUTION	: 1280 x 1024 at 75 Hz Refresh Rate
TEXT MODE	: 720 x 400
DOT PITCH	: 0.28 mm
HORIZONTAL FREQUENCY	: 30 to 82 kHz
VERTICAL FREQUENCY	: 56 to 76 Hz
ENVIRONMENTAL REQUIREMENTS TEMPERATURE Operating Temperature Storage Temperature	: 41 to 95°F 5 to 35°C : -13 to 140°F -25 to 60°C
HUMIDITY (NON-CONDENSING) Operating Non-operating	: Max. 80% : Max. 95%
POWER SOURCE	: 100-240VAC±10%,60-50Hz(90-264VAC)
POWER CONSUMPTION	: < 48 watt (typical value, excluding USB)
INPUT TERMINAL	: 15-pin D-type connector with cable or 5 BNC connector
Power Cable	: Non-shield

ACCEPTABLE RESOLUTION MODES

The table below shows the 27 video modes that can be displayed with this monitor.

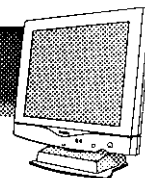| MODE	RESOLUTION	H. FREQ. (KHz)	V. FREQ. (Hz)	STANDARD
1	640 x 350	31.5	70	IBM VGA 10h
2	720 x 400	31.5	70	IBM VGA 3h
3	640 x 480	37.5	75	VESA
4	640 x 480	37.9	72	VESA
5	640 x 480	35.0	67	VESA
6	640 x 480	31.5	60	VESA
7	800 x 600	35.2	56	VESA
8	800 x 600	46.9	75	VESA
9	800 x 600	37.9	60	VESA
10	832 x 624	49.7	75	MAC
11	800 x 600	48.1	72	VESA
12	1024 x 768	60.0	75	VESA
13	1024 x 768	48.4	60	VESA
14	1024 x 768	56.5	70	VESA
15	1024 x 768	61.1	76	IBM XGA-2
16	1152 x 864	67.5	75	VESA
17	1152 x 864	63.9	70	non-VESA
18	1152 x 870	68.7	75	MAC
19	1152 x 900	61.8	66	SUN Mode IV
20	1152 x 900	71.8	76	SUN Mode II
21	1280 x 960	60.0	60	VESA
22	1280 x 960	75.0	75	non-VESA
23	1280 x 1024	76.0	72	DOS/V
24	1280 x 1024	64.0	60	VESA
25	1280 x 1024	80.0	75	VESA
26	1280 x 1024	81.1	76	SUN Mode I
27	1280 x 1024	71.7	67	SUN Mode V

TROUBLESHOOTING

This page presents problems that can be corrected by the user. If the problem still exists after these possible solutions, contact your nearest Philips dealer.

No Picture
(Power LED not lit)

- Make sure the Power cable is plugged to the wall and back of the monitor.
- Make sure the DC power cord has been attached to the DC Jack.
- First, power button in front of the monitor should be in the OFF position, then press it to ON position again.

No Picture
(Power LED is Amber or Yellow in color)

- Make sure the computer is turned on.
- Make sure the signal 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 2 and 24 for more detail.

Screen says

NO VIDEO INPUT

- 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.

AUTO button not working properly

- The AUTO FUNCTION is designed for use on standard Macintosh or IBM-compatible PC running Microsoft Windows.
- It may not work properly if using non-standard PC or video board.

Imaging Problems

Display position is incorrect

- Push the AUTO button.
- Adjust the image position using the HORIZONTAL POSITION &/or VERTICAL POSITION in the SECOND WINDOW.

Image vibrates on the screen

- Check that the signal cable is properly connected to the graphics board or PC.

Vertical flicker appears

- Push the AUTO button.
- Eliminate the vertical bars using the CLOCK ADJUSTMENT in the FIRST WINDOW. See Page 13 for details.

Horizontal flicker appears

- Push the AUTO button.
- Eliminate the horizontal bars using the PHASE ADJUSTMENT in the SECOND WINDOW. See Page 12 for details.
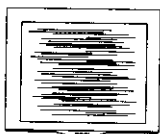
The screen is too bright or too dark

- Adjust the contrast and brightness using the first WINDOW. See Page 11 for details.
  (The backlight of the LCD monitor has a fixed life span. When the screen becomes dark or begins to flicker, please contact your dealer.)
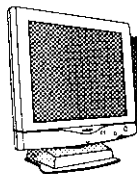
An after-image appears

- If an image remains in the screen for an extended period of time, it may be imprinted in the screen and leave an after-image. This usually disappears after a few hours.

An after-image remains after the power has been turned off

- This is characteristic of liquid crystal and is not caused by a malfunction or deterioration of the liquid crystal. The after-image will disappear after a set amount of time.

Green, red, and blue dots remain on the screen

- The remaining dots are charactericstic of the liquid crystal used in today's technology.

INDEX

GLOSSARY

Here are a few definitions that may help you.

| D-Sub | Two ways of connecting your monitor to your computer. Your monitor comes with a D-Sub cable. |
| USB | Universal Serial Bus. A way to connect your computer, monitor, and peripherals for true Plug-and-Play functions. |

Information for Users in the U. S.

For units set at 115 V :
Use a UL Listed Cord Set consisting of a
minimum 18 AWG, Type SVT or SJT three
conductor cord a maximum of 15-feet in length
and a parallel blade, grounding type attachment
plug rated 15 A, 125 V.

For units set at 230 V:
Use a UL Listed Cord Set consisting of a
minimum 18 AWG, Type SVT or SJT three
conductor cord a maximum of 15-feet in length
and a tandem blade, grounding type attachment
plug rated 15 A, 250 V.

Information for Users outside the U.S.

For units set at 230 V:
Use a Cord Set consisting of a minimum 18 AWG
cord and grounding type attachment plug rated
15 A, 250 V. The Cord Set should have the
appropriate safety approvals for the country in
which the equipment will be installed and / or
marked HAR.

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.

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