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150B
15L5082Q

EN

Other language versions

appendix

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

Introduction and Safety

Introduction

The Philips 150B 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 brightness and contrast, zero emissions, and low-energy consumption.

Features

EXCELLENT DISPLAY QUALITY

• 15 inch viewable area display - comparable to the viewable screen size of a 17-inch CRT monitor, with even better picture clarity and geometry.

• Full compatibility with all standard video cards and all common VESA modes up to 1024 x 768 Hz with 30 to 61 kHz horizontal scanning.

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

• Advance auto function for automatic adjustment of horizontal position, vertical position, phase, and clock setting.

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.

• TCO '99 approved

OTHERS

• 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.pcstuff.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.

Installation Locations & Accessories

Installation Locations

EN

AVOID HEAT AND COLD EXTREMES

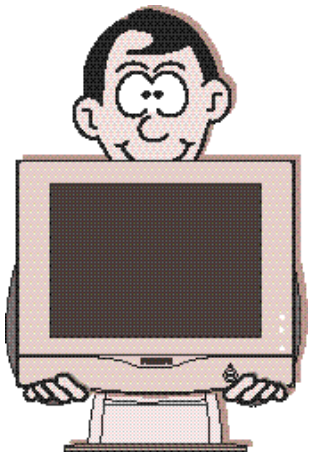
• Do not store or use the LCD monitor in locations exposed to heat, direct sunlight, or extreme cold.
• Avoid moving the LCD monitor between locations with large temperature differences. Choose a site falling within the following temperature and humidity ranges.

Temperature: 5-35°C (40-90°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.

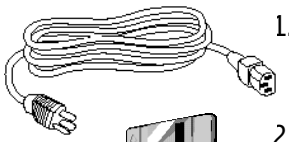


2.Handling the monitor with care prevents scratching and damage. If the monitor becomes damaged, immediately disconnect the power from the unit and have it checked by a qualified service person before using it again.

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

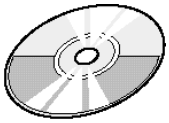


1. Power cable

2. Windows driver disk

3. Macintosh adapter (optional)

4. User manual



5. CD-ROM

6. Warranty Cards

7. Quick Set-up Guide

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

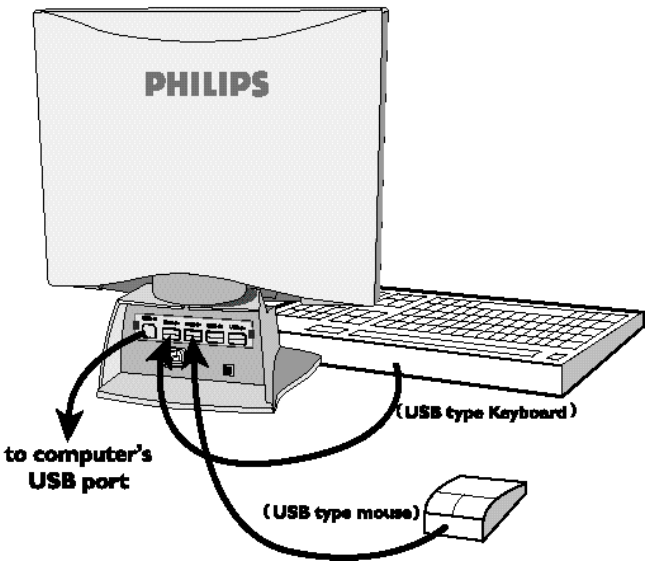
For an IBM-compatible Computer:

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.



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

VIDEO SETTINGS

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

Vertical Refresh Rate : 56Hz-75Hz
Horizontal Frequency : 30KHz-61KHz

NOTE: 1.The maximum resolution of this LCD monitor is 1024x768 at maximum Vertical Refresh Rate of 75Hz
2.Recommended video mode is 1024x768 at Vertical Refresh Rate of 60Hz.
3.Interlace mode is not applicable.

If you have Windows '95 or later . . .

FOLLOW THESE STEPS TO COMPLETE SETTING UP YOUR MONITOR

1. Insert Windows '95 floppy disk supplied with this monitor.
2. Click on the "START" icon. Next, click on the "SETTINGS" icon. Then click on "CONTROL PANEL."
3. Double-click on "DISPLAY" icon. Next, click on "SETTINGS" tab. Then click on "ADVANCED PROPERTIES" dialog box.
4. Click on "MONITOR" tab.

5a. If you have an old computer, click on "CHANGE" dialog box. Next, "SELECT DEVICE" screen appears. Now click on "HAVE DISK" dialog box. and select A drive

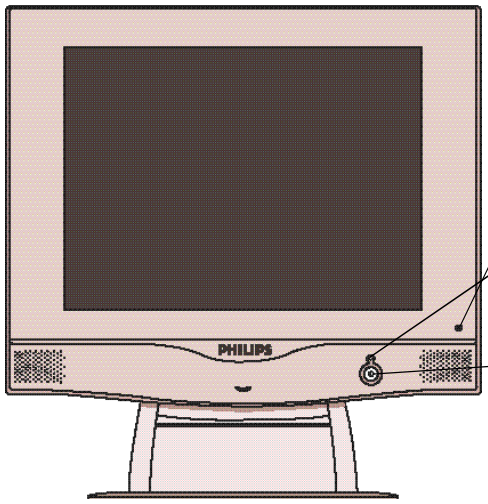
Or

5b. If you have a new computer, "SELECT DEVICE" screen automatically appears. Click on "HAVE DISK" dialog box and select A drive.

6. Select "OK" in the "INSTALL FROM DISK" dialog box. If model name of the Philips monitor is correct, click "OK" tab in the "SELECT DEVICE" dialog box.
7. Click "CLOSE" tab in the "ADVANCED PROPERTIES" dialog box. If your Windows '95 version is different or you need more detailed installation information, please refer to the Windows '95 user's manual.

Description of Controls

FRONT VIEW

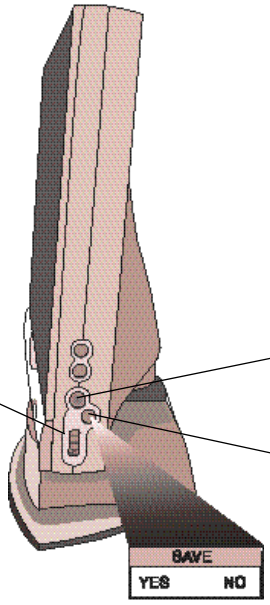


Control Indicators – for OSD button .

LED – Light Emitting Diode turns green when the monitor is on.

Power Button – Turns the monitor On and Off.

SIDE VIEW

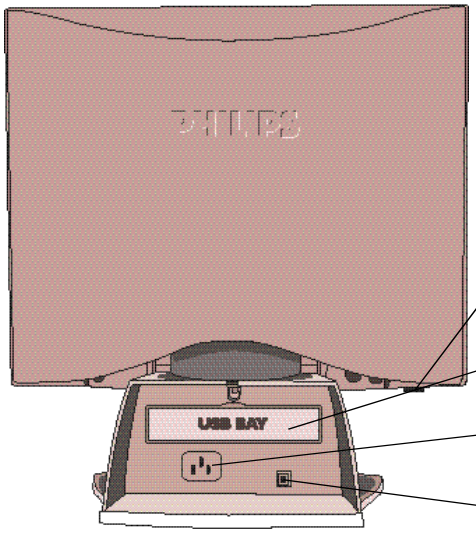


Rotary Knob – Helps guide you through the On Screen Display.

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

Auto Button – Press this button to automatically adjust the horizontal position, vertical position, phase, and clock settings. After few seconds, the SAVE window will appear. Choose YES to keep the new setting or NO to restore the previous settings.

REAR VIEW



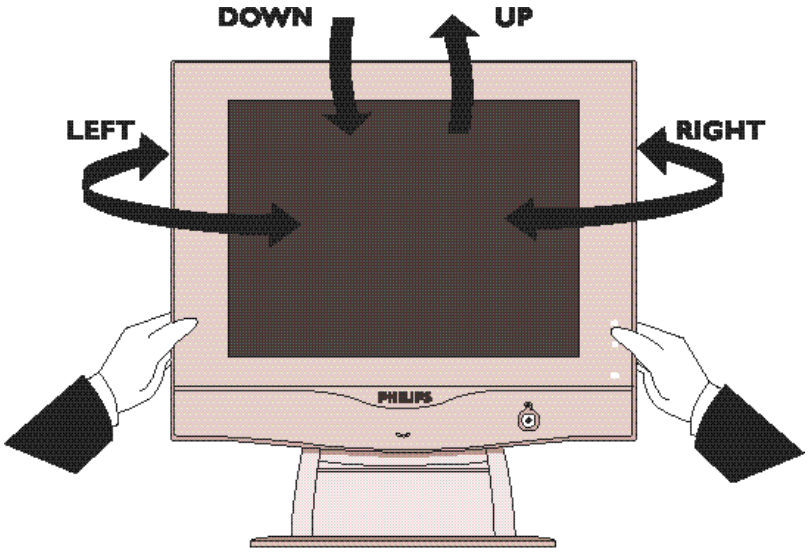
Kensington Lock Socket – A special feature to lock your monitor for anti-theft.

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.

DC Jack – Plug the monitor's DC power cord here.

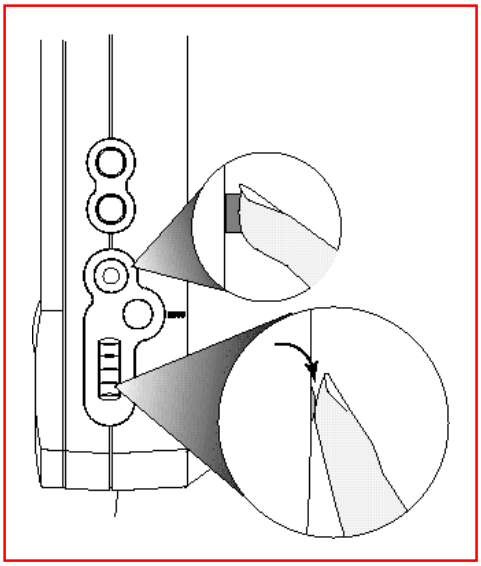
Description of Controls



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 Side Panel OSD Button - To use the OSD function, please refer to Page 8 for details.

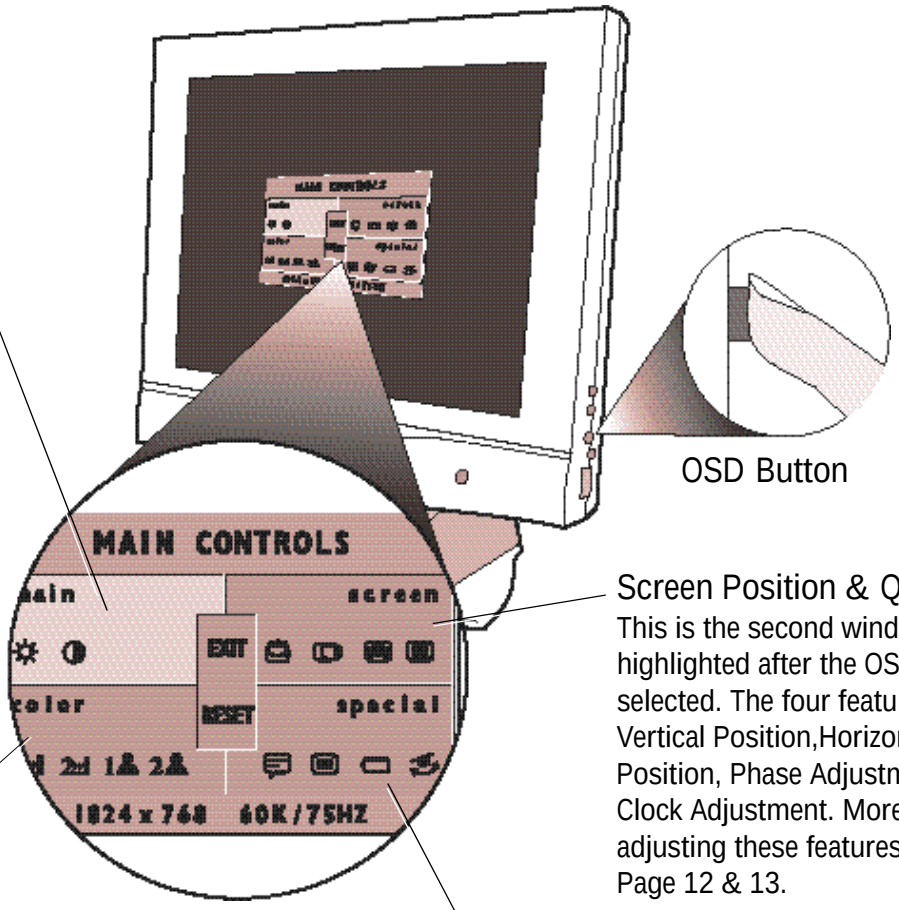


EN

Description of Controls

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.

Main Controls - The first window highlighted after the OSD has been selected. It has three features: Brightness, Contrast. To adjust the three features, turn to page 10 & 11.



Screen Position & Quality - This is the second window highlighted after the OSD has been selected. The four features are: Vertical Position,Horizontal Position, Phase Adjustment, and Clock Adjustment. More details on adjusting these features are on Page 12 & 13.

Color Temperature - 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 14 & 15.

Special Controls - The fourth window features: Language, OSD Controls, Power Saving, and Rotary Default. Details on adjusting these features are on pages16 & 17.
Note: Language allows you to change the On Screen Display from English to French, Spanish, German, or Italian. See Page 16 for more details.

How to Use the On Screen Display (OSD)

OSD Menu control level structure

EN

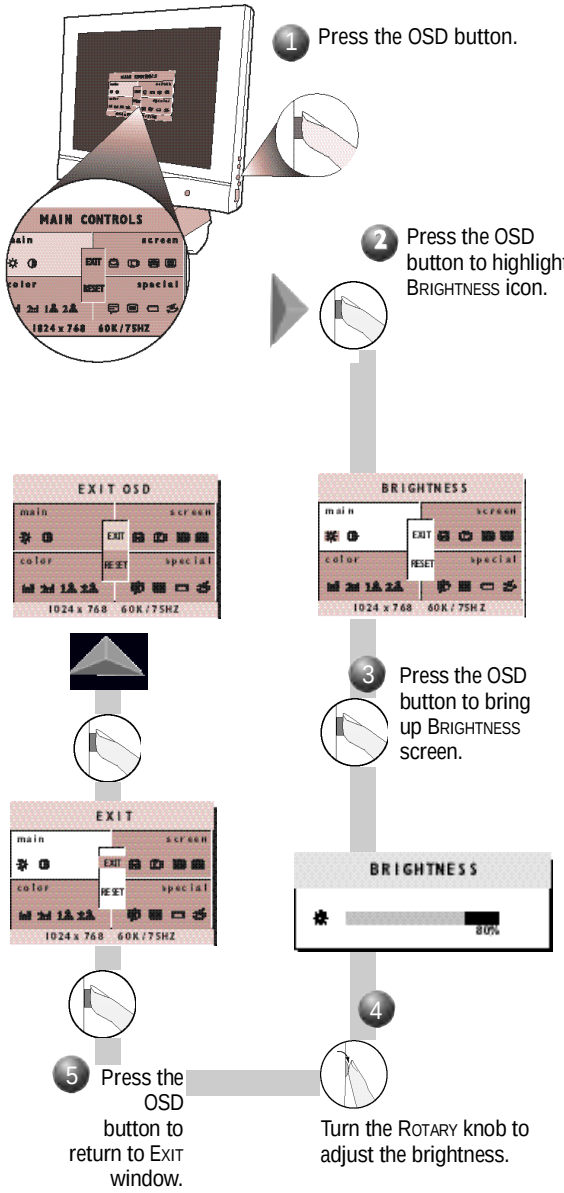
FIRST LEVEL	SECOND LEVEL	THIRD LEVEL	FORTH LEVEL
Main control	Brightness		
	Contrast		
	Exit		
	Reset		
Screen position & Quality	Vertical position		
	Horizontal position		
	Phase adjustment		
	Clock adjustment		
	Exit		
	Reset		
Color temperature	9300°K		
	6500°K		
	User presets 1	Red color	
		Green color	
		Blue color	
	User presets 2	Red color	
		Green color	
		Blue color	
	Exit		
	Reset		
Special controls	Language	English	
		Deutsch	
		Français	
		Italiano	
		Español	
	OSD controls	Timer	5
			10
			25
			Off
		Vertical position	
		Horizontal position	
	Power saving	On	
		Off	
	Rotary default	Brightness	
		Contrast	
	Exit		
	Reset		
Exit	Save	Yes	
		No	
Reset	Reset all settings	Yes	
		No	

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.



Smart Help

After returning to Exit . . .

. . .to continue to Contrast, turn the ROTARY knob until MAIN CONTROLS WINDOW is highlighted. Next, follow steps 2 - 5 under CONTRAST.

. . . 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 18 for other exit options.)

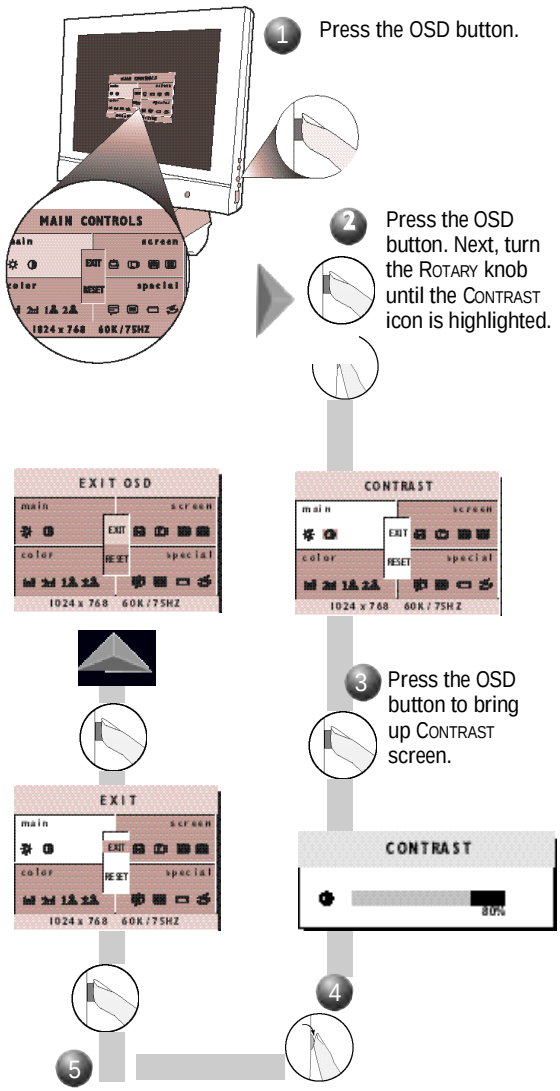
How to Use the On Screen Display (OSD)

Main Controls window

EN

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. Press the OSD button. Next, turn the ROTARY knob until the CONTRAST icon is highlighted.
3. Press the OSD button to bring up CONTRAST screen.
4. Turn the ROTARY knob to adjust the contrast.
5.

Smart Help

After returning to Exit . . .

. . . to continue to the Vertical Position, turn the ROTARY knob until SCREEN POSITION & QUALITY WINDOW is highlighted. Next, PRESS THE OSD BUTTON. FOLLOWSTEPS 2-5 UNDER VERTICAL POSITION (on the next page).

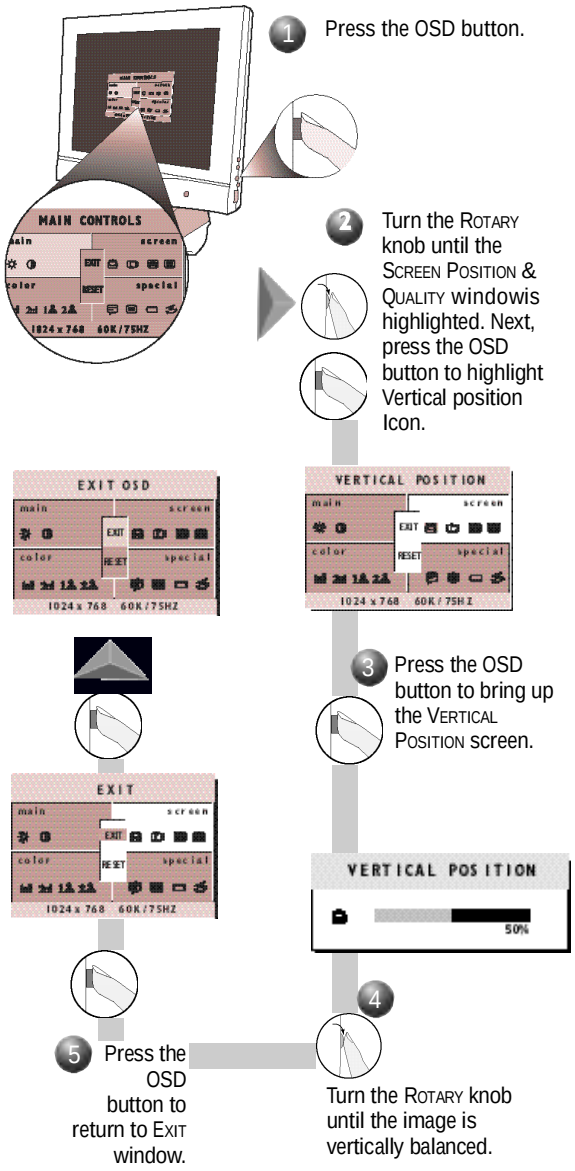
. . . to exit completely, press the OSD button and choose either SAVE or NO SAVE in setting mode, then push OSD button to exit OSD. (See page 18 for other exit options.)

How to Use the On Screen Display (OSD)

Screen Position & Quality window

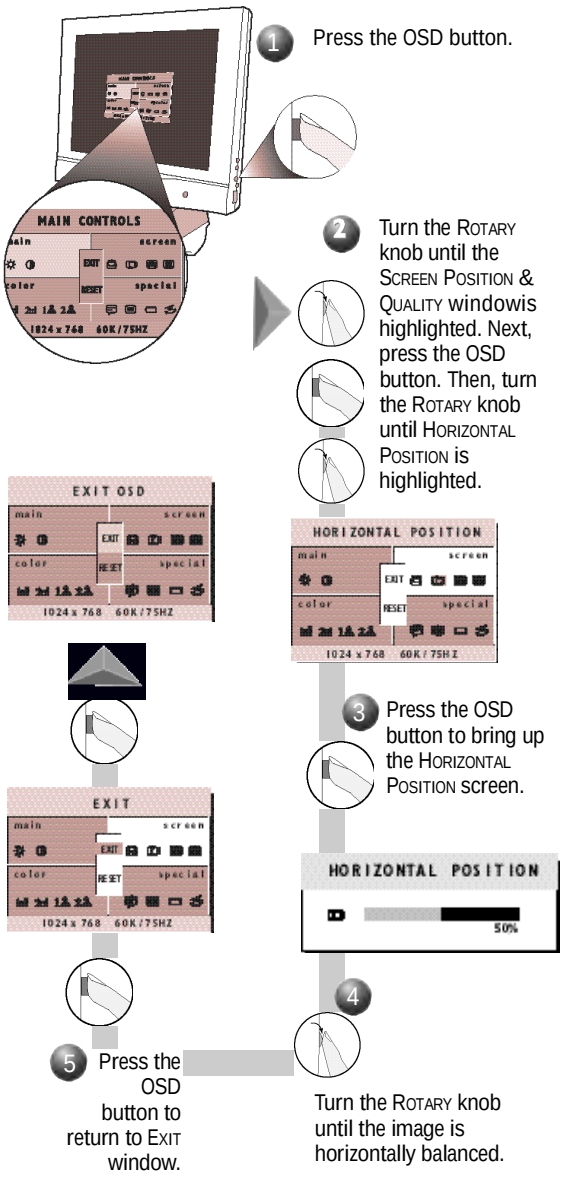
Vertical Position

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



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.



Smart Help

After returning to Exit . . .

. . . to continue to the Horizontal Position, turn the ROTARY knob until SCREEN POSITION & QUALITY is highlighted. Next, press the OSD button. Follow steps 2-5 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 18 for other exit options.)

Smart Help

After returning to Exit . . .

. . . to continue to Phase Adjustment, turn the ROTARY knob until SCREEN POSITION & QUALITY is highlighted. Next, press the OSD button. Follow steps 2-5 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 18 for other exit options.)

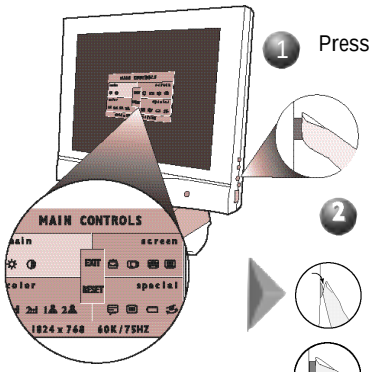
How to Use the On Screen Display (OSD)

Screen Position & Quality window

EN

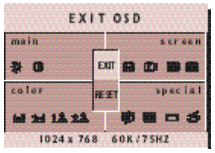
PHASE ADJUSTMENT

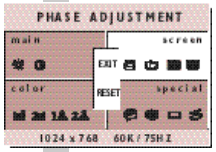
Phase Adjustment reduce the horizontal flicker of characters on the screen to a minimum.



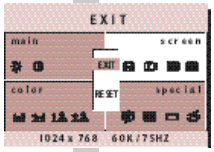
1. Press the OSD button.

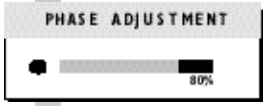
2. Turn the ROTARY knob until the SCREEN POSITION & QUALITY windowis highlighted. Next, press the OSD button. Then, turn the ROTARY knob until PHASE ADJUSTMENT is highlighted.





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





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

5. Press the OSD button to return to EXIT window.

Smart Help

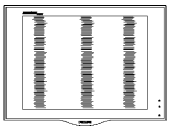
After returning to Exit . . .

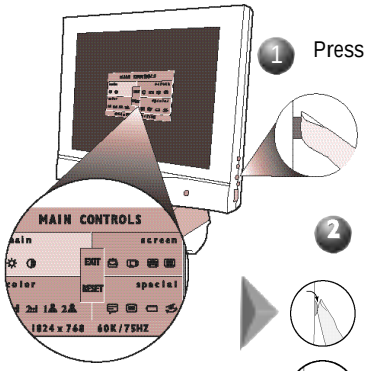
. . . to continue to Clock Adjustment, turn the ROTARY knob until SCREEN POSITION & QUALITY is highlighted. Next, press the OSD button. Follow steps 2-5 under CLOCK ADJUSTMENT.

. . . 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 18 for other exit options.)

CLOCK ADJUSTMENT

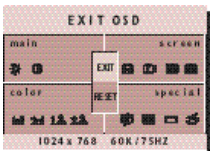
Clock Adjustment reduce the vertical flicker of characters on the screen to a minimum.

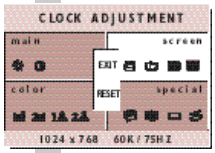




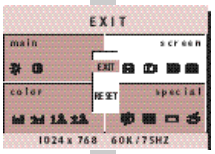
1. Press the OSD button.

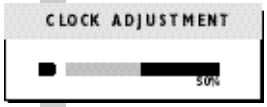
2. Turn the ROTARY knob until the SCREEN POSITION & QUALITY windowis highlighted. Next, press the OSD button. Then, turn the ROTARY knob until CLOCK ADJUSTMENT is highlighted.





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





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

5. Press the OSD button to return to EXIT window.

Smart Help

After returning to Exit . . .

. . . to continue to the Color Temperature window, turn the ROTARY knob until EXIT is highlighted. Next, press the OSD button. Then follow steps 2-4 under COLOR TEMPERATURE WINDOW on the next page.

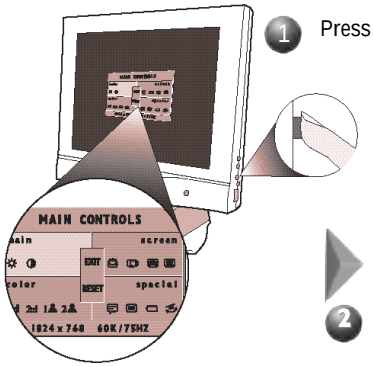
. . . to exit completely, press the OSD button and choose either SAVE or NO SAVE in setting mode, then push OSD button to exit OSD. (See page 18 for other exit options.)

How to Use the On Screen Display (OSD)

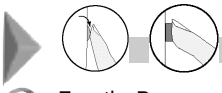
Color Temperature window

9300 K CAD/CAM
6500 K DTP

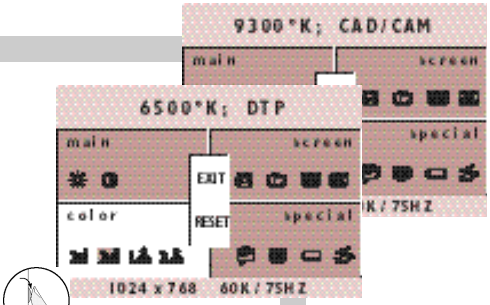
Your monitor has two preset options for color temperatures from which you can choose from. One 6500 K option for Desktop Publishing (DTP). Another 9300 K option for Computer Aided Design (CAD) work. When you select an option, the computer automatically adjusts itself for that color temperature. Monitor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



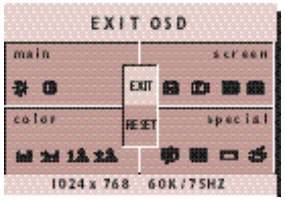
1. Press the OSD button.



2. Turn the ROTARY knob until the COLOR windowis highlighted. Then press the ON SCREEN DISPLAY button.



3. Turn the ROTARY knob until DTP OR CAD/CAM is highlighted.



4. After each preset setting is saved, the on screen display automatically returns to the EXIT window.

Smart Help

After returning to Exit . . .

. . . to continue to User Presets, turn the ROTARY knob until COLOR TEMPERATUREWINDOW is highlighted. Next, follow steps 2 - 8 under USER PRESETS on the next page.

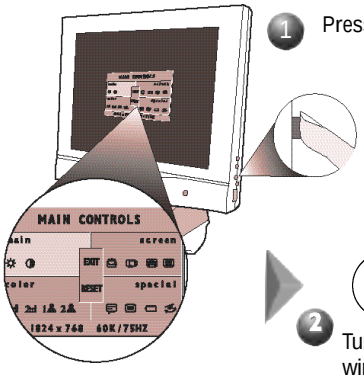
. . . to exit completely, press the OSD button and choose either SAVE or NO SAVE in setting mode, then push OSD button to exit OSD. (See page 18 for other exit options.)

How to Use the On Screen Display (OSD)

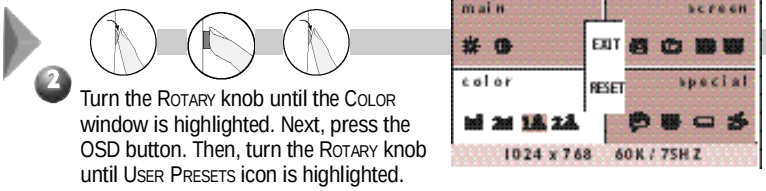
Color Temperature window

User Presets

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



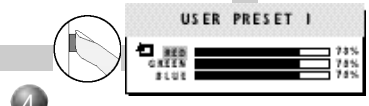
1. Press the OSD button.



2. Turn the ROTARY knob until the COLOR window is highlighted. Next, press the OSD button. Then, turn the ROTARY knob until USER PRESETS icon is highlighted.

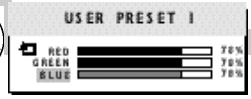
3. If necessary, turn the ROTARY knob until 1 of the USER PRESETS is highlighted. Next, press the ON SCREEN DISPLAY button.

4. First, RED will be highlighted.

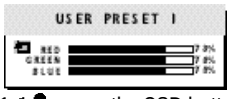


5. When done with red, press the OSD button. GREEN will be highlighted. Then, turn the ROTARY knob to increase or decrease the green.

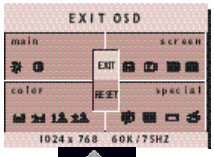
6. When done with green, press the OSD button. BLUE will be highlighted. Then, turn the ROTARY knob to increase or decrease the blue.



7. To exit USER PRESET 1 1 press the OSD button. Next, turn the ROTARY knob until the EXIT box is highlighted. Then, press the ON SCREEN DISPLAY button.



8. You will now be back at the EXIT window. See SMART HELP below for options.



Smart Help

After returning to Exit . . .

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

. . . to continue to Special Controls window, turn the ROTARY knob until SPECIALCONTROL WINDOW is highlighted. Next, press the ON SCREEN DISPLAY button. Now, follow steps 2 - 5 under SPECIAL CONTROLS on the next page.

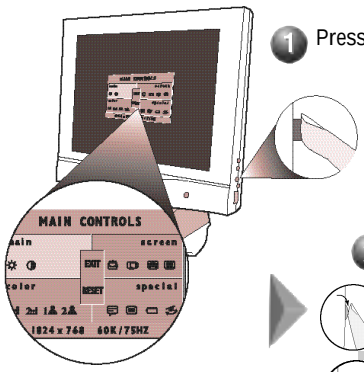
. . .to exit the On Screen Display completely press the OSD button and choose either SAVE or NO SAVE in setting mode, then push OSD button to exit OSD. (See page 18 for other exit options.)

How to Use the On Screen Display (OSD)

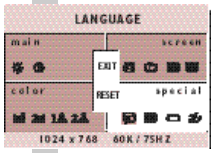
Special Controls window

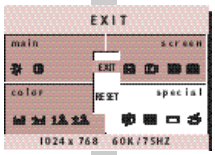
Language

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.



1. Press the OSD button.
2. Turn the Rotary knob until Special Controls is highlighted. Then, press the On Screen Display button to highlight Language icon.
3. Press the On Screen Display button to bring up Language screen.
4. Turn the Rotary knob to until desired language is selected.
5. Press the OSD button to return to Exit window.





Smart Help

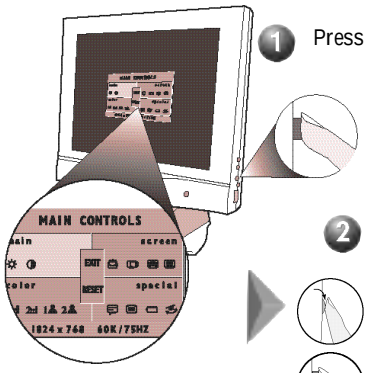
After returning to Exit . . .

. . . to continue to Osd Controls, turn the Rotary knob until Special Controls Window is highlighted. Next, press the OSD button. Follow steps 2-5 under Osd Control.

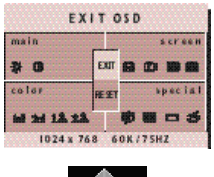
. . . to exit completely, press the OSD button and choose either Save or No Save in setting mode, then push OSD button to exit OSD. (See page 18 for other exit options.)

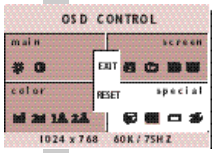
OSD Controls

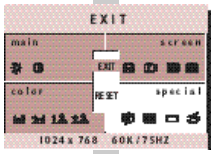
With OSD Controls, you can set the time for the On Screen Display to time out, change the vertical and horizontal position of the OSD on the monitor screen.

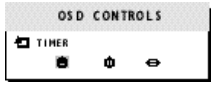


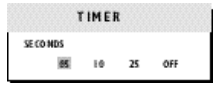
1. Press the OSD button.
2. Turn the Rotary knob until Special Controls is highlighted. Next, press the OSD button. Then, turn the Rotary knob until the OSD Controls icon is highlighted.
3. Press the OSD button to bring up Osd Controls screen.
4. Press the OSD button to bring up Timer screen.
5. Turn the Rotary knob to select : 05, 10, 25 seconds, or Off.
6. Press the OSD button to add your change and return to Osd Controls screen.
7. Turn the Rotary knob to select Vertical or Horizontal Position, and repeat steps 3-6.
8. Press the OSD button to return to Exit window.











Smart Help

After returning to Exit . . .

. . . to continue to Power Saving, turn the Rotary knob until Special Control Window is highlighted. Next, press the OSD button. Follow steps 2-5 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 OSD. (See page 18 for other exit options.)

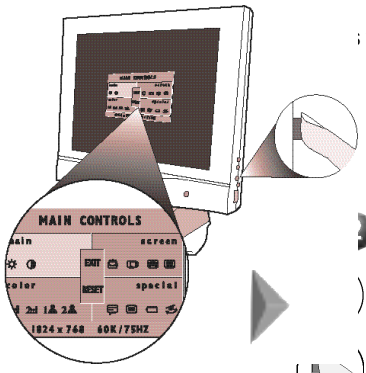
How to Use the On Screen Display (OSD)

Special Controls window

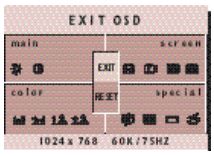
EN

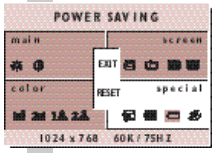
Power Saving

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.

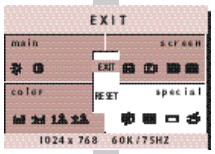


1 the OSD button.



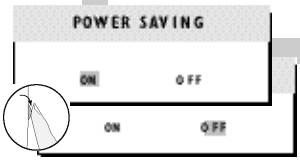


2 Turn the Rotary knob until Special Controls is highlighted. Next, press the OSD button.



5 Press the OSD button to return to Exit window.

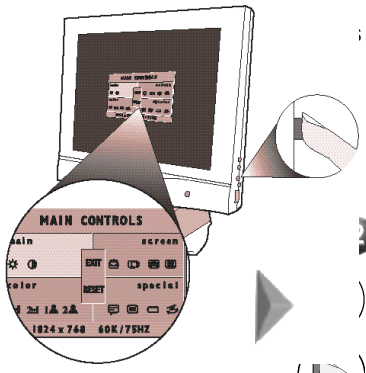
3 Turn the Rotary knob until Power Saving is highlighted. Then, press the OSD button.



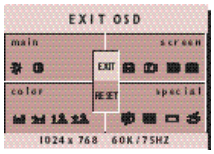
4 Turn the Rotary knob to select Power Saving On or Off.

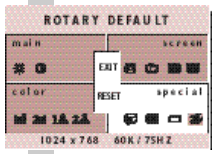
Rotary Default

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.

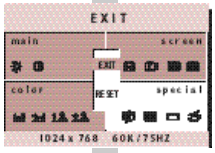


1 the OSD button.



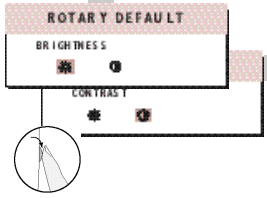


2 Turn the Rotary knob until Special Controls is highlighted. Next, press the OSD button.



5 Press the OSD button to return to Exit window.

3 Turn the Rotary knob until Rotary Default is highlighted. Then, press the OSDbutton.



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

Smart Help

After returning to Exit . . .

. . . to continue to Rotary Default, turn the Rotary knob until Special Control is highlighted. Next, press the Osd button. Follow steps 2-5 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 OSD. (See page 18 for other exit options.)

Smart Help

After returning to Exit . . .

. . . to continue to another window, turn the Rotary knob until that window is highlighted. Next, press the Osd button. Follow the instructions for that window.

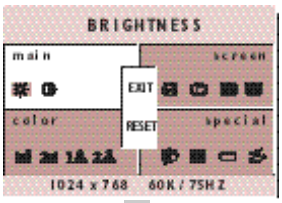
. . . to exit completely, press the OSD button and choose either Save or No Save in setting mode, then push OSD button to exit OSD. (See page 18 for other exit options.)

How to Use the On Screen Display (OSD)

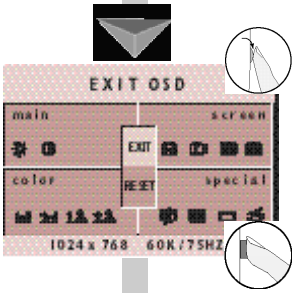
Exit or Reset

EXIT

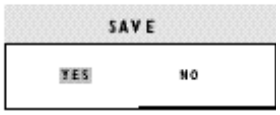
Choosing EXIT allows you to save results of adjustment on settings and exit the OSD screen.



1. When you are at a control window. for example MAIN CONTROLS, an icon is highlighted.



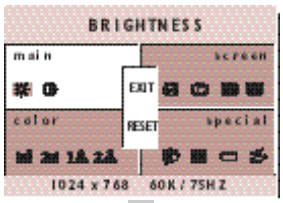
2. Turn the ROTARY knob until EXIT is highlighted. Next, press the OSD button.



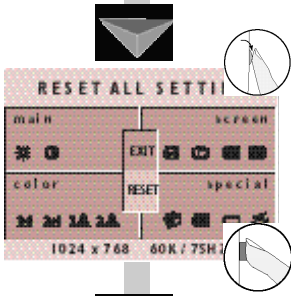
3. The settings mode is now highlighted. You can choose to either YES or NO. Then, press the OSD button to EXIT.

RESET

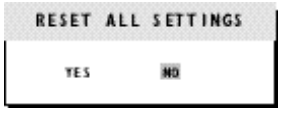
Choosing RESET returns all the settings in that window to factory presets.



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



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

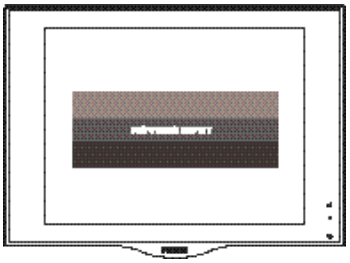


3. Turn the rotary knob to select RESET ALL SETTINGS, YES or NO. Press the OSD button to EXIT.

EN

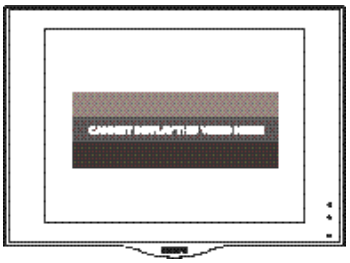
OSD Warning Signal

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. This warning signals can be disabled by pressing AUTO button for more than 10 seconds if there is no video signal in.



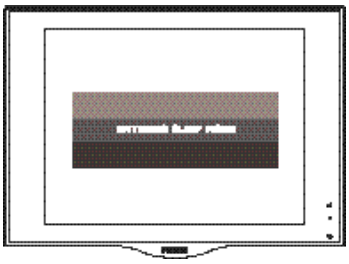
• NO VIDEO INPUT •

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) to1024 x 768 @ 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.

Additional information

Automatic Power Saving & 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 PC & monitor automatically "wakes up." The table below shows the power consumption and signalling of this automatic power-saving feature. To turn this feature on and off, see page 17. The table below shows the 14 factory preset video modes.

Power Management Definition

VESA mode	Video	H-sync	V-sync	Power used	Power saving(%)	LED color
ON	Active	Yes	Yes	< 38W	0%	Green
Stand-by	Blanked	No	Yes	< 5 W	86.8%	Amber
Suspend	Blanked	Yes	No	< 5 W	86.8%	Amber
OFF	Blanked	No	No	< 5 W	86.8%	Amber

• Above power consumptions exclude USB watts.

• This monitor is ENERGY STAR® compliant.

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

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

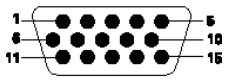
Factory Preset Resolution Modes

Mode	Resolution	H. Freq. (KHz)	V. Freq. (Hz)	Standard
1	640 x 350	31.5	70	IBM VGA
2	720 x 400	31.5	70	IBM VGA
3	640 x 480	31.5	60	IBM VGA
4	640 x 480	35.0	67	MAC
5	640 x 480	37.9	73	VESA
6	640 x 480	37.5	75	VESA
7	800 x 600	35.2	56	VESA
8	800 x 600	37.9	60	VESA
9	800 x 600	48.1	72	VESA
10	800 x 600	46.9	75	VESA
11	832 x 624	49.7	75	MAC
12	1024 x 768	48.4	60	VESA
13	1024 x 768	56.5	70	VESA
14	1024 x 768	60.0	75	VESA

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)



Specifications

Display	:15 inch	
Type	: Flat panel active matrix-TFT LCD	
Viewable Image Size (VIS)	:15 inch diagonal (38.1 cm)	
Surface treatment	:Anti-glare coating	
Weight (unpacked)	:5.5kgs	
Maximum Dimensions		
Height	:418 mm	
Depth	:176 mm	
Width	:402 mm	
Maximum Graphics Resolution	:1024 x 768 at 75 Hz Refresh Rate	
Text Mode	:720 x 400	
Dot Pitch	:0.297 mm	
Horizontal Frequency	:30 to 61 kHz	
Vertical Frequency	:56 to 75 Hz	
Environmental Requirements Temperature		
Operating Temperature	: 41 to 95°F	5 to 35°C
Storage Temperature	:-43 to 140°F	-20 to 60°C
Humidity (non-condensing)		
Operating	:20 to 80%	
Non-operating	:5 to 95%	
Power Source	:100-240VAC±10%,60-50Hz (90-264VAC)	
Power Consumption	:< 38 watt (excluding USB)	
Input Terminal	:15-pin D-type connector with cable	
Mains Cord	:Non-shield	
Pedestal		
Tilt & Swivel	:-2° to 32°, +/- 30°	

EN

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 20 for more detail.
Screen says 	• 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 SCREEN POSITIONAND QUALITY 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 SCREEN POSITION& QUALITY WINDOW. See Page 13 for details.
Horizontal flicker appears 	• Push the AUTO button. • Eliminate the horizontal bars using the PHASE ADJUSTMENT in the SCREEN POSITION& QUALITY WINDOW. See Page 13 for details.
The screen is too bright or too dark	• Adjust the contrast and brightness using the MAIN CONTROLS WINDOW. See Page 10 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 r emains 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 scr een	• The remaining dots are charactericstic of the liquid crystal used in today's technology.

Additional Information

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.