

ViewSonic®

VP2290b

Widescreen LCD Display



Full 22.2" Diagonal Viewable Screen

User Guide

Guide de l'utilisateur

Bedienungsanleitung

Guía del usuario

Guida dell'utente

Guia do usuário

Användarhandbok

Käyttöopas

Руководство пользователя

ユーザーズ ガイド

使用手冊

使用手冊

사용자 안내서

دليل المستخدم

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Electronic Warranty Registration

To meet your future needs, and to receive any additional product information as it becomes available, please register your product warranty on the Internet at: <http://www.viewsonic.com>

For Your Records

Product Name:	ViewSonic VP2290b
Model Number:	VLCDS24728-3W
Document Number:	A-CD-VP2290b-3W
Serial Number:	_____
Purchase Date:	_____

Product disposal at end of product life

ViewSonic is concerned about the preservation of our environment. Please dispose of this product properly at the end of its useful life. Your local waste disposal company may provide information about proper disposal.

Before setting up

This manual contains information on how to set up and operate the ViewSonic VP2290b LCD Display, hereafter called the display.

This chapter describes the following:

- Prerequisites
- Unpacking
- Checking parts

Prerequisites

You will need a personal computer or a workstation (hereafter called the *computer*) with the following.

- A DVI-compliant video graphics card (hereafter simply called the *DVI*) To date, the following cards have been tested to work with this display, including:

ATI® FireGL™ 4

ATI® FireGLX1

nVIDIA Quadro® 4 900XGL / 980XGL

nVIDIA Quadro® FX-1000

nVIDIA Quadro® FX-2000

nVIDIA Quadro® FX-3000

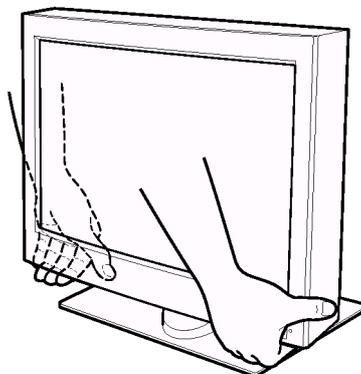
MATROX Parhelia™ HR256

If the user wishes to use some other DVI-compliant video graphics cards (refer to <http://www.viewsonic.com> for the latest information), ViewSonic is not held responsible for any damages incurred by the installation of unsupported cards.

Unpacking

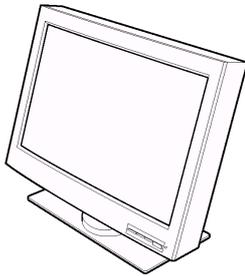
Attention: The display is heavy. Be careful not to drop it. The LCD is fragile and should not be bumped on an edge, or dropped.

Open the carton box and carefully remove the display. Hold the bottom of the screen firmly with both hands, as shown below.

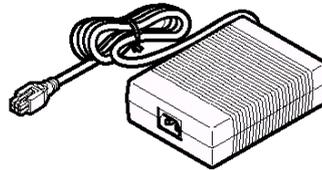


Checking parts

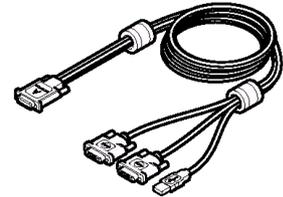
Check the box for the following items. If any items are missing or damaged, contact your place of purchase immediately.



Display



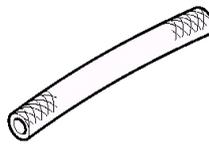
Power adapter and cord



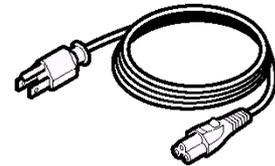
Digital signal cable
P/N: 07N2227



ViewSonic Wizard CD



Connector tool



Power cord



Liquid View Scaling
Software for Windows

Note: The digital signal cable is shipped with one end connected to the display.

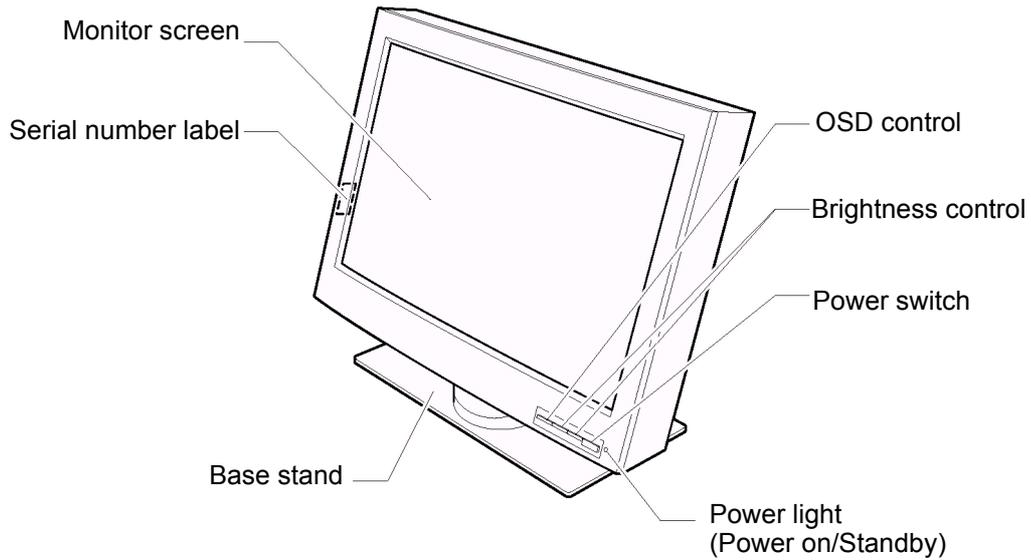
Hardware setup

This chapter describes the following:

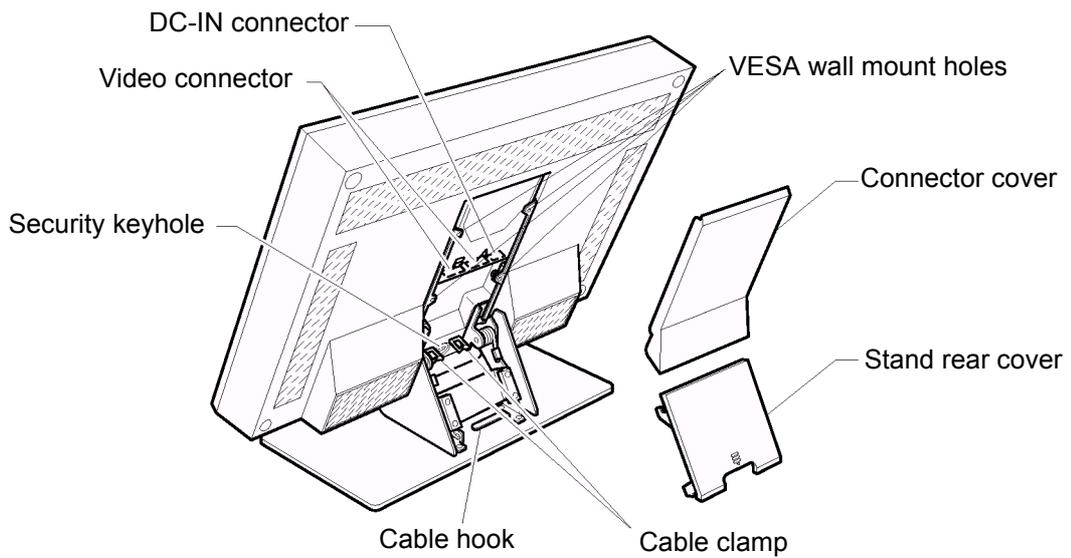
- The location of the controls, switches, and connectors.
- The procedure for setting up the display.

Locations

Front view



Rear view



Setup the display

Storing the connector tool

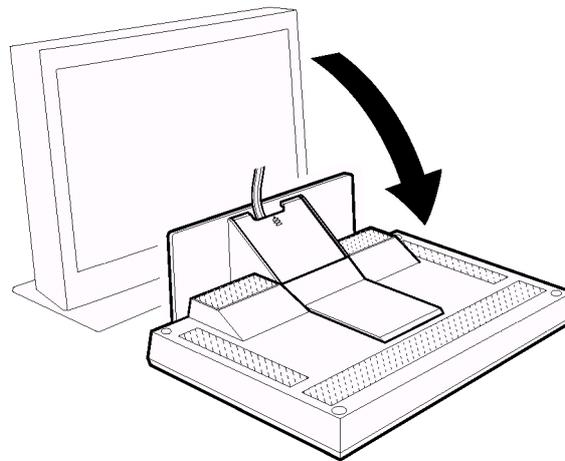
This section describes how to store the connector tool for future use. This tool will be useful when disconnecting the cables from the display.

Attention:

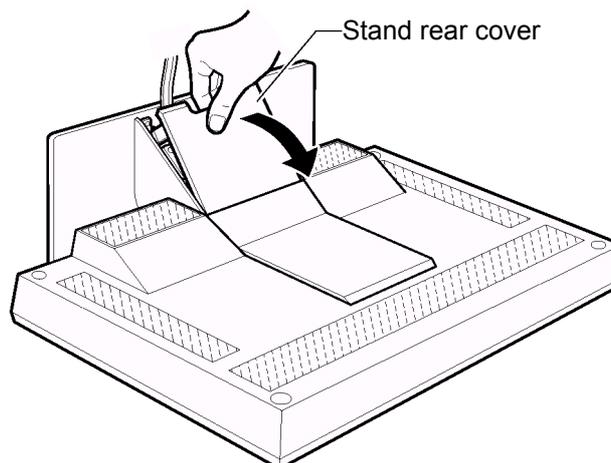
1. Remove any objects from the surface before tilting the display. They might damage your screen.
2. Be careful not to pinch your fingers between the display and the surface when tilting the display.

To store the connector tool, do the following:

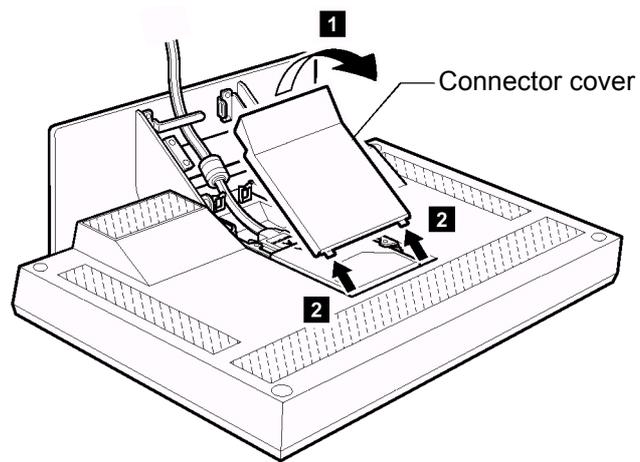
1. Clear a work space, and turn the display face down.



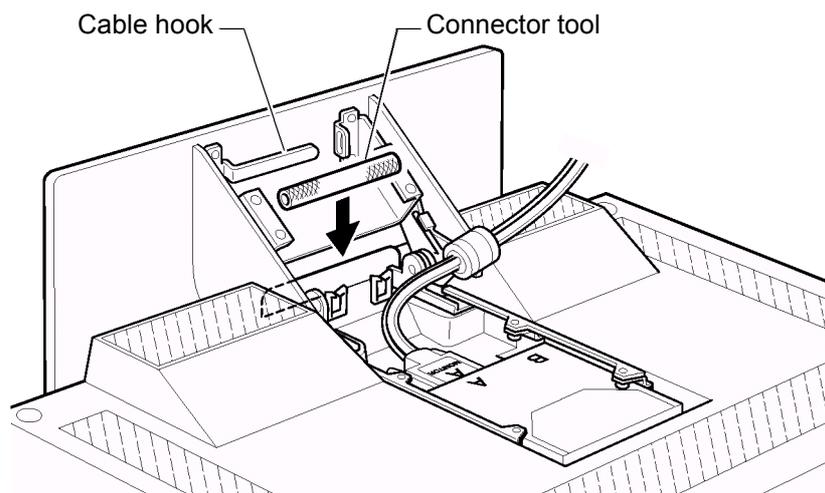
2. Remove the stand rear cover.



3. Remove the connector cover.



4. Unhook the digital signal cable from the cable hook and lift it up to store the connector tool to the rear compartment of the display.



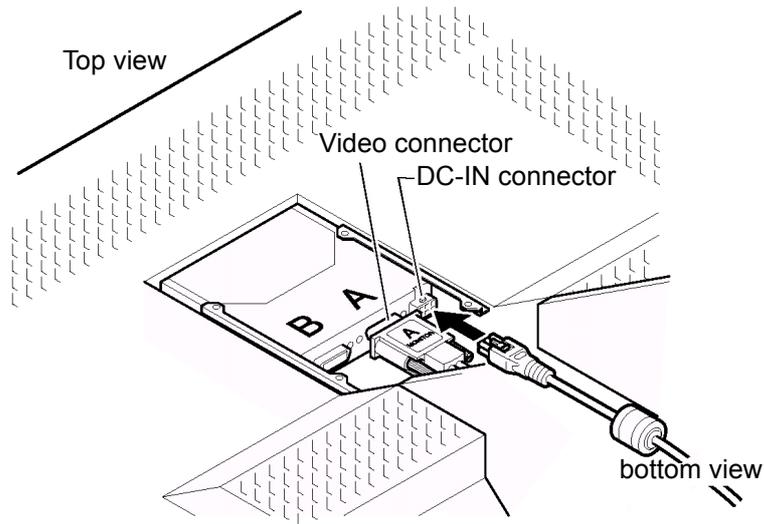
Connecting the cables

This section describes how to connect the following cables:

1. Power adapter cord
2. Digital signal cable
3. Power cord

Connecting the power adapter cord

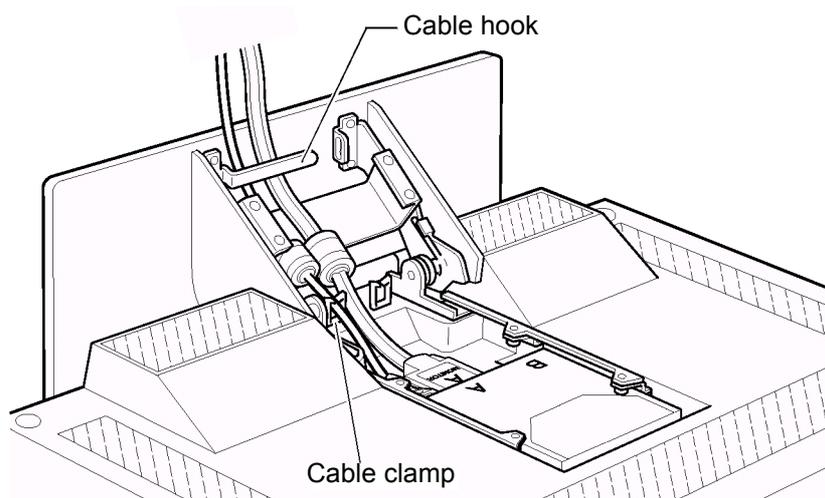
1. Connect the power adapter cord to the DC-IN connector at the rear of the display. Make sure that it clicks firmly into the connector.



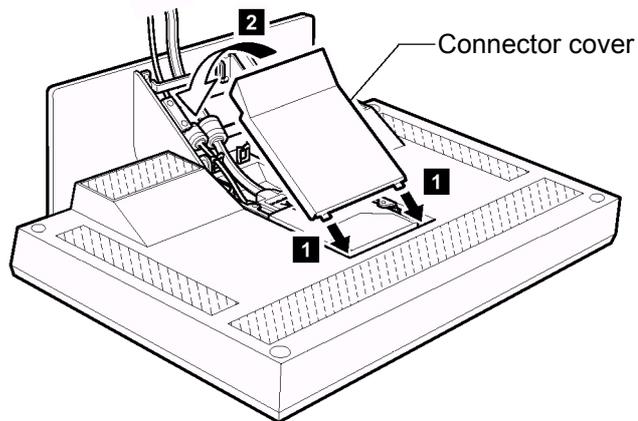
Note:

The video connectors A and B on the display are Safety Extra Low Voltage (SELV) circuits.

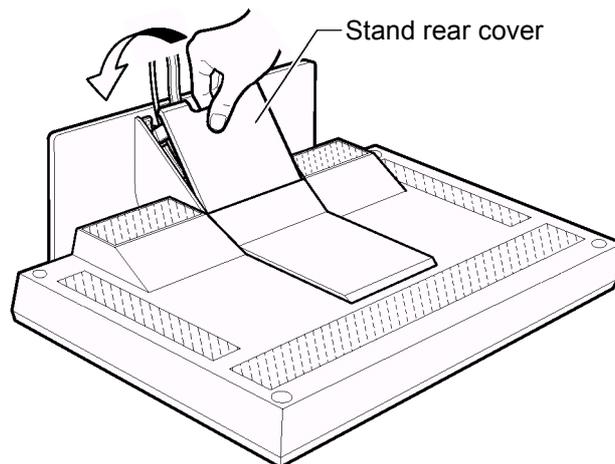
2. Route the cables through the cable clamp and the cable hook.



3. Reinstall the connector cover on the display.



4. Reinstall the stand rear cover and turn the display to the upright position.

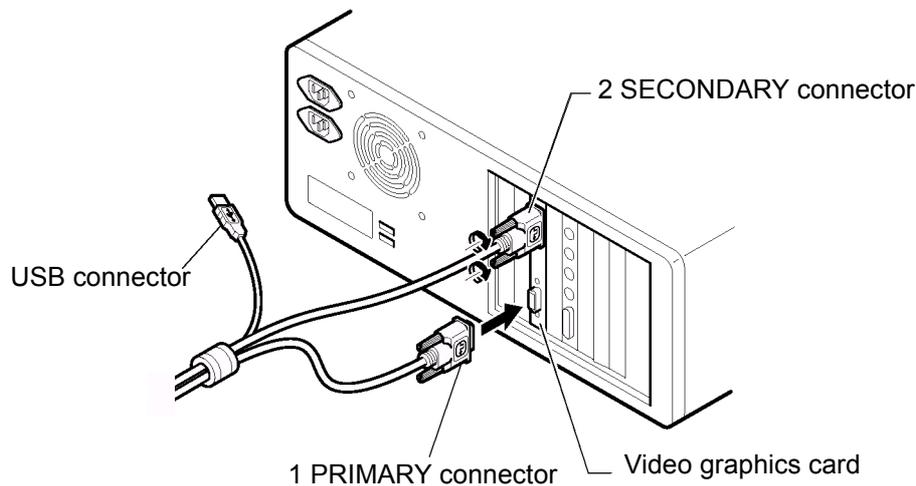


Note:

Do not power on the display or the computer until instructed. Failing to do so may damage these units or the video graphics card.

Connecting the digital signal cable

1. Make sure that the video graphics card is installed on your computer.
2. Make sure that the power cord is NOT connected to your computer.
3. Open the cover of your computer, if necessary.
4. Connect the connector end marked “1 PRIMARY” to the DVI port marked “1”, and the connector end marked “2 SECONDARY” to the DVI port marked “2” of the video graphics card.



5. If you have opened the cover of your computer, close it.

Notes:

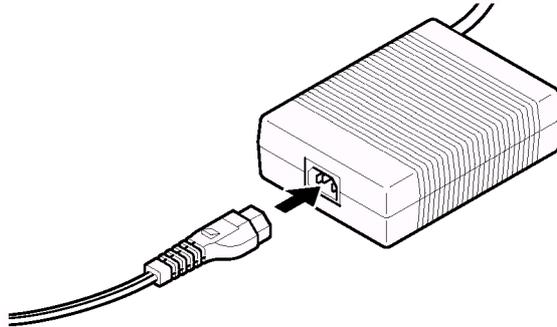
- a. If you want to use the extended function, then install the program to your computer now if you have not installed it yet. Then connect the USB connector to the USB port. If you don't have this program, you can download it from the following Web site: <http://www.viewsonic.com>.
- b. Do not connect the USB connector to the USB port if you don't have the extended function program installed on your computer. Connecting this connector may damage your display, computer, or other attached USB devices.
- c. If your video graphics card has only one DVI port, then connect the connector of the digital signal cable marked “1 PRIMARY” to the DVI port on the video graphics card of your computer.
- d. With the ATI[®] FireGL™ 4 video graphics card, use ATI device driver version 2078 (or higher) for the best performance of the display. The device driver is available at the following Web site: <http://support.ati.com>.

Connecting the power cord

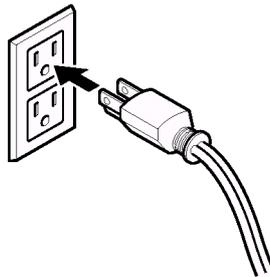
Note:

Read the respective “Danger Statements” on pages 22 before continuing with this section.

1. Connect the power cord to the power adapter.



2. Connect the power plug to a properly grounded power outlet.

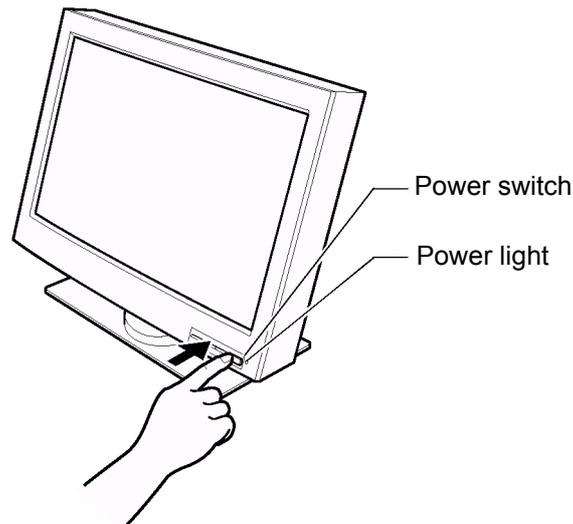


Note:

Make sure that all the cables are connected, otherwise the power-on light will not turn on.

3. Connect the computer to a properly grounded power outlet and turn on the power switch.

4. Press the power switch on the display. The power light comes on.



Notes:

- a. When you turn off the display, wait at least five seconds before turning it on again.
- b. If you accidentally disconnected the power cord from the main outlet and you connected it to the outlet again, the screen may flicker continuously. To stop the flicker, press the power switch and turn off the display, then turn it on again.
- c. Refer to “Knowing the operating status of your display” on page 17 for more information on the power light.

This completes the hardware setup.

Supplementary Information

When powering on the different units, power them on in the following sequence:

1. Display
2. Peripheral units
3. Computer

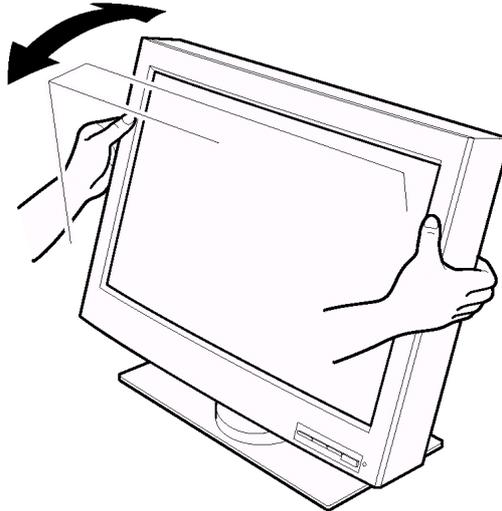
Adjusting and maintaining your display

This chapter describes the following:

- How to adjust the viewing angle.
- How to set the controls.
- The operating status of your display.
- How to disconnect the cables.
- How to use the security keylock.
- How to maintain your display.

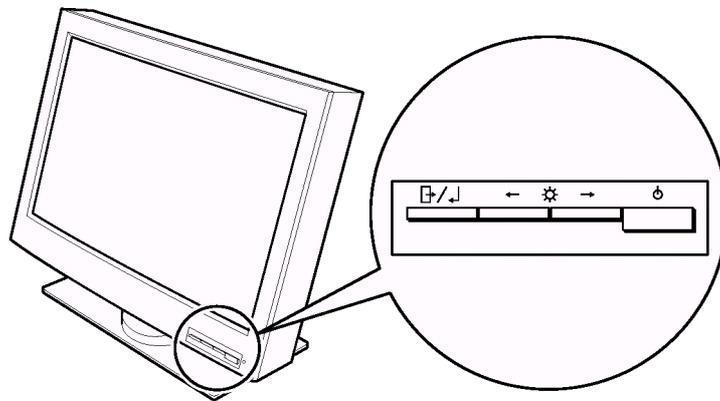
Adjusting the viewing angle

You can adjust the vertical angle of the display to avoid unnecessary light reflection and to make viewing easier. Tilt the screen angle vertically by grasping both sides of the display and pulling it forward or backward.



Setting the display control buttons

You can control the various functions of the display using the buttons at the front right of the display.

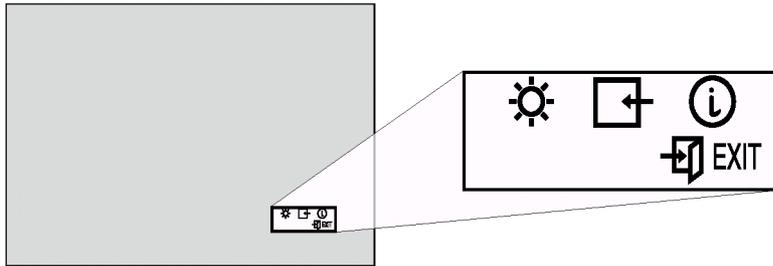


The four buttons control the following functions:

Button/Button Name	Direct access functions	Functions available from the OSD Menu
 Menu/Enter	Displays the on-screen display (OSD) menu.	Enters highlighted menu mode.
 Left-Arrow	Sets the screen to a dimmer view.	Moves the cursor to the left for highlighting the icons or for making adjustments.
 Right-Arrow	Sets the screen to a brighter view.	Moves the cursor to the right for highlighting the icons or for making adjustments.
 On/Off	Switches the display on or off.	

Accessing the on-screen display (OSD) menus

You can access the on-screen display (OSD) menus by pressing the **Menu/Enter** button. The OSD menus enable you to set the various operating conditions of your display.

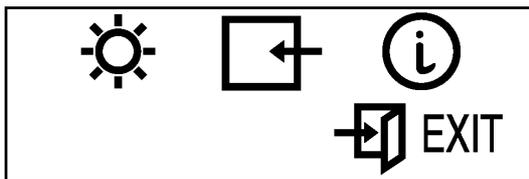


The OSD menu consist of the following:

- Main menu (for menu selection)
- Submenus (for controls setting)
 - Brightness level
 - Select video input type (single, dual, 4-vertical stripes, 4-tiles)
 - Display key information (vertical frequency resolution)

Main menu

To access the Main menu, press the **Menu/Enter** button. The Main menu appears on the display screen.



OSD Icon	Description
	Used to display the Brightness submenu.
	Used to display the Video Input submenu.
	Used to display the Information submenu.
	Exit from the Main menu.

To exit the Main menu, select the **Exit** icon using the **Left-Arrow** or the **Right-Arrow** button, then press the **Menu/Enter** button.

To reset the OSD settings to the default value, do the following:

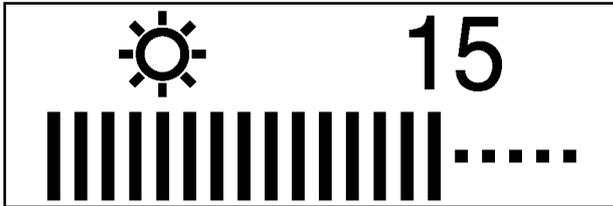
1. Power off the display.
2. While pressing the **Menu/Enter** button, press the Power switch to on. The Power light changes cyclically between green and amber for several seconds.

Submenus

To access a submenu, do the following:

Brightness submenu

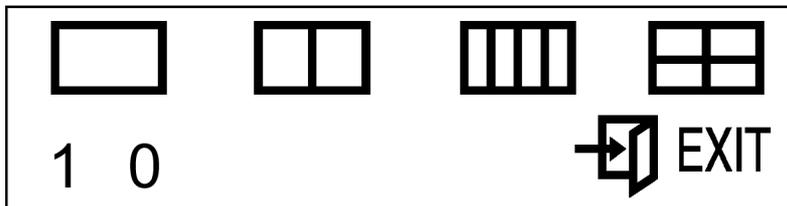
1. Select the **Brightness** icon on the Main menu using the **Left-Arrow** or the **Right-Arrow** button.
2. Press the **Menu/Enter** button. The Brightness submenu appears.



3. Adjust the brightness using the **Left-Arrow** or the **Right-Arrow** button.
4. Press the **Menu/Enter** button to exit from this submenu.

Video input submenu

1. Select the **Video Input** icon on the Main menu using the **Left-Arrow** or the **Right-Arrow** button.
2. Press the **Menu/Enter** button. The Video Input submenu appears.

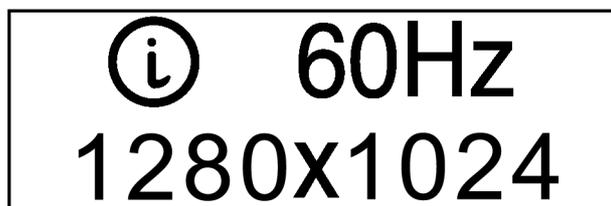


OSD Icon	Description
	One video input mode.
	Two video input mode. (The color management function is always effective.)
	Four stripes video input mode. (The color management function is always effective.)
	Four tiles video input mode. (The color management function is always effective.)
	Exit from the Submenu.
1 or 0 (to the left of the numbers)	Sets the color management function or the smooth character display function. You can use the color management function by choosing 1 when the input mode  is being displayed. This is the default. Note: You can use the color management function when any of the input modes  ,  , or  is being displayed regardless of the numeric setting. You can use the smooth character display function by choosing 0 when the input mode  is being displayed.
1 or 0 (to the right of the numbers)	Sets the present color management function setting. You can use the color management function with the default setting when you choose 0. You can customize the color management function to your setting when you choose 1. Note: To find out more about the color management function, go to the following Web site: http://www.viewsonic.com .

- When you want to change the color management function setting or the smooth character display function setting when the input mode  is being displayed, push the **Left-Arrow** button for several seconds.
- Select the **Exit** icon to exit the submenu.

Information submenu

- Select the **Information** icon on the Main menu using the **Left-Arrow** or the **Right-Arrow** button, to check the vertical frequency and the resolution of your display.
- Press the **Menu/Enter** button. The Information submenu appears.

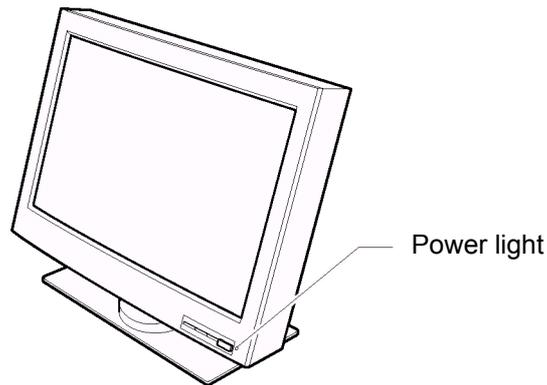


(example)

- Press the **Menu/Enter** button to exit from this submenu.

Knowing the operating status of your display

You can know the status of your display by the color of the power light.



The color of the power light changes from green to amber when your display receives a time-out video signal from the computer and enters Standby mode to save power. A time-out video signal is sent from your computer to the display when the former detects inactivity on the keyboard or mouse for a set duration of time. You can change the time-out duration for your display from the computer. Refer to the manual shipped with your computer to change the time-out duration value.

Color	Mode	Power Consumption	Description
Green	Normal Operation	150 W (Maximum)	The display is operating normally and is receiving the synchronous video signal from the computer.
Amber	Standby Mode	Less than 5 W	Either: <ul style="list-style-type: none">• the display is in Standby mode to save power, or• the video cable is disconnected. If the display is in Standby mode, it is not receiving any video signals from the computer. If the video cable is disconnected, refer to "Troubleshooting" on page 20.
Amber (fast blinking at 0.25-sec. intervals)	—	—	An error such as fan not working has occurred. Refer to "Troubleshooting" on page 20.
Amber (slow blinking at 1-sec. intervals)	—	—	The display does not support the incoming video signal.

Disconnecting the cable

CAUTION:

Do not use a digital signal cable other than the one shipped with the product. Using some other cable may damage the display or the video graphics card. The cable (P/N: 07N2227) is available at ViewSonic Customer Support Line (refer to page 21).

Note:

Before you begin the procedures below, be sure to read the “Danger Statements” on page 22.

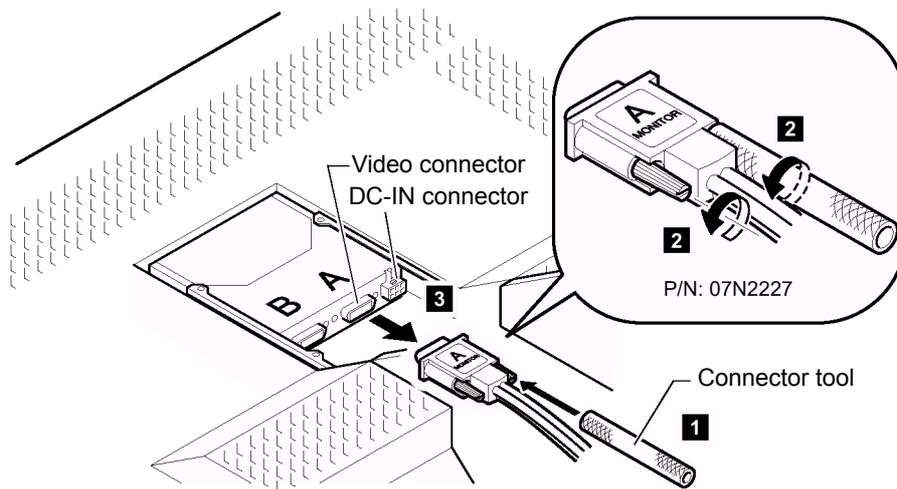
To disconnect the digital signal cable, do the following:

1. Power off your display, peripheral units (if any), and computer and unplug them from the power outlet.
2. Turn the display face down (refer to page 5).
3. Remove the stand rear cover and the connector cover (refer to page 5 and 6).
4. Unhook the cables from the cable clamps and cable hook (refer to page 6).
5. Lift up the cables and take out the connector tool from the rear compartment of the display (refer to page 6).
6. Disconnect the power adapter cord from the DC-IN connector (refer to page 7).

Note:

Be sure to press the latch on the connector of the power adapter cord when unplugging it from the DC-IN connector.

7. Insert the connector tool into the thumb screw on the digital signal cable connector A **1** and turn it counterclockwise **2** to loosen the screw.
8. Disconnect the digital signal cable A from video connector A **3**.



Note:

The video connectors A and B on the display are Safety Extra Low Voltage (SELV) circuits.

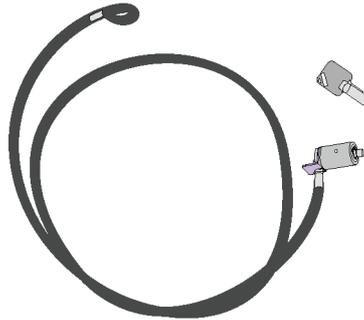
9. Store the connector tool back into the rear compartment of the display.

Using the security keylock

The display has a built-in security keyhole at the rear of the screen for fastening a security lock and cable. This lock is used to help prevent the display from being removed without your permission. This cable can be purchased at any PC shop.

First secure the cable to a stationary object; then attach the lock to the keyhole on the rear of the display. For details of the installation, refer to the instructions shipped with the security keylock.

Also, refer to “Rear view” on page 4 for the location of the keyhole.



Note:

You are responsible for evaluating, selecting, and implementing the lock. ViewSonic makes no comments, judgments, or warranties about the function, quality, or performance of the lock.

Cleaning the LCD Display

- **MAKE SURE THE LCD DISPLAY IS TURNED OFF.**
- **NEVER SPRAY OR POUR ANY LIQUID DIRECTLY ONTO THE SCREEN OR CASE.**

To clean the screen:

1. Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
2. If still not clean, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.

To clean the case:

1. Use a soft, dry cloth.
2. If still not clean, apply a small amount of a non-ammonia, non-alcohol based, mild non-abrasive detergent onto a clean, soft, lint-free cloth, then wipe the surface.

Disclaimer

ViewSonic does not recommend the use of any ammonia or alcohol-based cleaners on the LCD display screen or case. Some chemical cleaners have been reported to damage the screen and/or case of the LCD display. ViewSonic will not be liable for damage resulting from use of any ammonia or alcohol-based cleaners.

Troubleshooting

Is something wrong?

If you suspect that something is not working correctly, you should:

1. Turn on the computer and display.
2. Set the brightness control () to the proper position.
3. Make sure that all cables are securely connected.
4. Disable the computer's screen saver program, if it is enabled.
5. Set the display mode to the supported display mode.
6. If you still have a problem, go to the symptom list below and find the symptom that most resembles yours.

Symptom list

Before calling your retailer or ViewSonic, find the symptom that most resembles yours, and try the suggested action. You may be able to solve the problem yourself.

Symptom	Possible cause	Suggested action
The screen is blank and the power indicator is off	No power to the display	<ul style="list-style-type: none"> • Make sure that the electrical outlet and the display are both switched on. • Make sure that the power cord is firmly plugged into the electrical outlet and the power supply unit. • If the power cord plug has a removable fuse, replace it. • Try another power cord. • Try another electrical outlet. • The video graphics card is defective. Replace it. • The computer is defective. Replace it.
The screen is blank and power indicator is steady green	Brightness may be too low	Adjust the brightness
The screen is blank and the power indicator is steady amber	The display is in Standby mode	<ul style="list-style-type: none"> • Press any key on the keyboard or move the mouse to restore operation. • Check the Power Management software on your computer.
	The video cable is not connected	<ul style="list-style-type: none"> • Make sure that the signal cable is firmly connected. • Make sure that no pins are bent in the signal cable connector. • The video graphics card is defective. Replace it. • The computer is defective. Replace it.

<p>The screen is blank and the power indicator is blinking amber every second</p>	<p>The display mode of the computer is outside the range of the display</p>	<ul style="list-style-type: none"> • Reconfigure the computer to use a supported display mode. • The video graphics card is defective. Replace it. • The computer is defective. Replace it.
<p>The screen is blank and the power indicator is blinking amber every 0.25 second</p>	<p>The display fan is not working</p>	<ul style="list-style-type: none"> • Make sure that the power cord is firmly plugged into the electrical outlet. • Make sure that the power adapter cord is firmly connected. If the symptom remains, call your retailer or ViewSonic. • The video graphics card is defective. Replace it. • The computer is defective. Replace it.
<p>The image appears to be smeared</p>	<p>There are noises in the video signal</p>	<ul style="list-style-type: none"> • Make sure that the signal cable is firmly connected. • Make sure that no pins are bent in the signal cable connector. • The video graphics card is defective. Replace it. • The computer is defective. Replace it.
<p>A few dots are missing, discolored, or inappropriately lighted</p>	<p>The LCD contains over 27,000,000 thin-film transistors (TFTs). A small number of dots may be missing, discolored, or lighted on the screen. This is an intrinsic characteristic of the TFT LCD technology and is not an LCD defect.</p>	

Danger Statements



To avoid shock hazard:

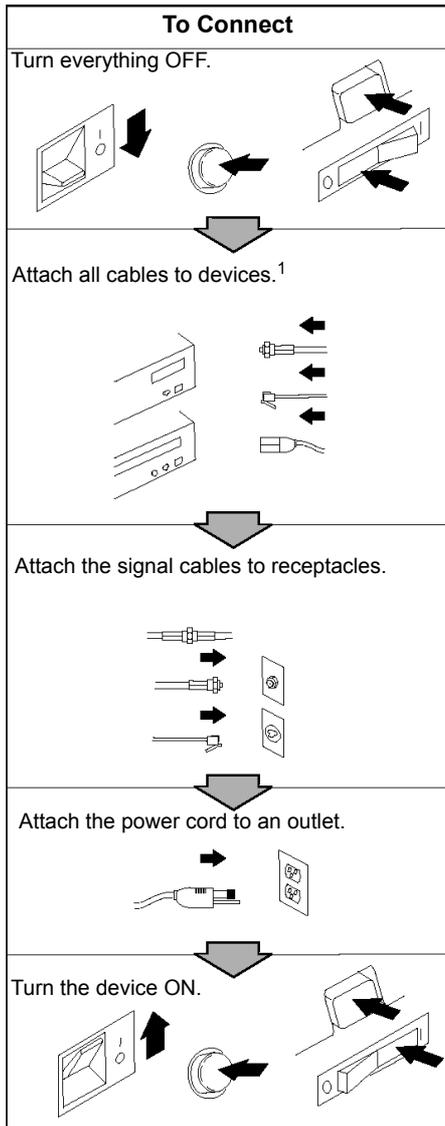
- Do not remove the covers.
- Do not operate this product unless the stand is attached.
- Do not connect or disconnect this product during an electrical storm.
- The power cord plug must be connected to a properly wired and grounded power outlet.
- Any equipment to which this product will be attached must also be connected to properly wired and grounded power outlets.
- To isolate the display from the electrical supply, you must remove the plug from the power outlet. The power outlet should be easily accessible.

Handling:

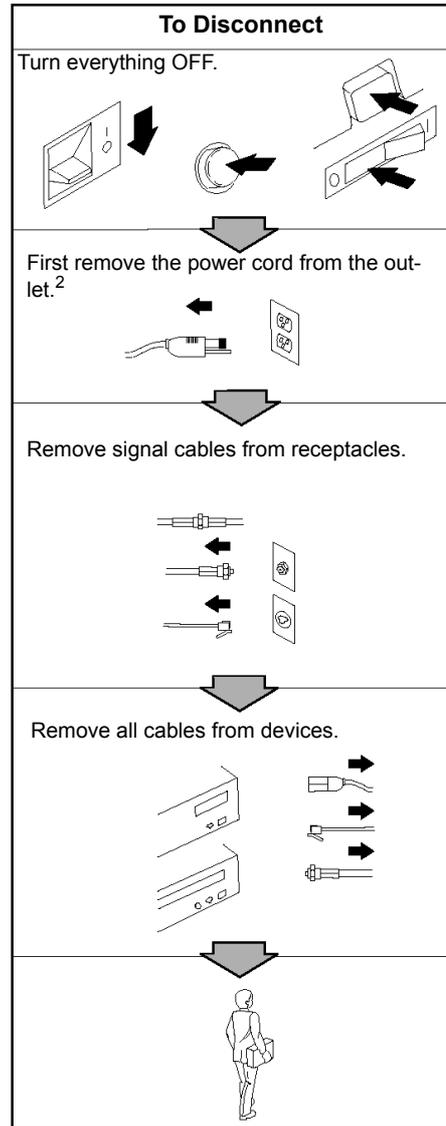
- Your color display is heavy, so handle it with care. ViewSonic recommends that this display is moved or lifted by two people.

DANGER

Electric current from the power cords, telephone lines and communication cables is hazardous. To avoid shock hazard, connect and disconnect cables as shown below when installing, moving, or opening the covers of this product or attached devices. The power cord must be used with a properly grounded outlet. Connect the power plugs to mains outlets located in the same panel.



¹ In the U.K., by law, the telephone line cable must be connected after the power cord.



² In the U.K., by law, the power cord must be disconnected after the telephone line cable.

Notices

Attention

- Do not exert strong pressure to the surface of the display screen. You may break the LCD panel.
- Do not place heavy objects on top of this product. They may damage the display.
- Do not touch the display screen with your fingers. Fingerprints and oil stains may remain on the screen surface. They are difficult to wipe off.
- The display is heavy. Ask the help of others if you cannot carry it by yourself.
- When leaving your office for a long vacation, always unplug the power cords from the main outlet.

LCD considerations

The liquid crystals in the display panel contain several irritants. If the panel is damaged or broken, do not let the liquid come in contact with your skin, eyes, or mouth. If you do come in contact with the liquid, flush the affected part with running water for at least 15 minutes. If any symptom remains, consult a doctor.

The fluorescent lamp in the liquid crystal display (LCD) contains mercury (50 mg. (0.002 oz.) maximum). Do not place in trash that is disposed of in landfills. Dispose of it as required by local ordinances or regulations.

Considerations on the display resolution

This display is able to display characters, graphics, and pictures at high resolution. When you connect this display to a PC with a high resolution (3840 x 2400), the characters will be displayed at 1/4 the normal size. Do not continue to operate the PC at this character size. You can spoil your eyes. Change the character size to a bigger size or the resolution to a lower resolution on the operating system or application.

Operating considerations

To ensure comfortable operation of the display, follow the instructions below:

- Place the display in front of you for easy viewing.
- Place the display at a comfortable distance (50 –60 cm) (19 – 24 in.) from you.
- Tilt the display so that top of the display is at your eye level.
- Adjust the angle of the tilt so that there is no reflection of light and objects. If necessary, turn off the light or lower its luminescence. If near a window, close the curtains or pull down the blind to cut the sunlight.
- Adjust the screen brightness.
- Use a chair with a high-reclining and sit deep into it.
- Operating on the screen for long hours can cause fatigue and eyestrain. Divert your eyes from the screen for short intervals during operation, and take short rests.

License inquiries

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Walnut, CA, 91789
U.S.A.

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TMDS is a trademark of Silicon Image, Inc., in the United States or other countries, or both.

Windows is registered trademark of Microsoft Corporation, in the United States or other countries, or both.

Specifications

The specifications of the display are as follows:

Dimensions	Width: 547 mm (21.5 in.) Height: 439 mm (17.3 in.) Depth: 196 mm (7.7 in.) Depth (without stand): 105 mm (4.1 in.)
Weight	Unpackaged: With base stand: 11.4 kg (25.1 lb.) Without base stand: 8.8 kg (19.4 lb.) Power adapter: 1.3 kg (2.9 lb.)
Tilt	Angle: -5° – +30°
Power	Input: 100 – 240 V AC, 50/60 Hz
Power consumption	Maximum: 150 W Minimum: Less than 5 W (In Standby Mode)
Video input	TMD5 TM interface (RGB: 8 bits)
User controls	Power On/Off, Brightness
Regulatory compliance	<ul style="list-style-type: none"> • CE • FCC-A • TÜV Ergo • TÜV GS • UL/CSA 60950 • VCCI-A • ISO 13406-2 • CISPR22 A • TCO'95 • CCC • C-TICK • BSMI • UL2601 & IEC60601 with optional "Medical Grade" power adapter
Display area	Horizontal: 478.1 mm (18.8 in.) Vertical: 298.8 mm (11.8 in.)
Temperature	Operating: 0 ~+35°C (32 ~ 95°F) Storage: -20 ~ +60°C (-4 ~ 140°F) Shipping: -20 ~ +60°C (-4 ~ 140°F)
Relative humidity	Operating: 8% ~ 80% (no condensation) Storage: 5% ~ 95% (no condensation) Shipping: 5% ~ 95% (no condensation)

Supported display modes

The display supports the following display modes:

Addressability		DVI Input	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Dot Clock Frequency (MHz)	Actual Display Resolution
VGA	640 × 400	ch1	31.5	59.9	25.2	3200 × 2000
	640 × 480	ch1	37.9	72.8	31.5	3200 × 2400
	640 × 480	ch1	37.5	75.0	31.5	3200 × 2400
	640 × 480	ch1	43.3	85.0	36.0	3200 × 2400
SVGA	800 × 600	ch1	35.2	56.3	36.0	3200 × 2400
	800 × 600	ch1	37.9	60.3	40.0	3200 × 2400
	800 × 600	ch1	48.1	72.2	50.0	3200 × 2400
	800 × 600	ch1	46.9	75.0	49.5	3200 × 2400
	800 × 600	ch1	53.7	85.1	56.3	3200 × 2400
MATROX VGA	960 × 1200	ch1	67.3	55.7	71.0	1920 × 2400
XGA	1024 × 768	ch1	48.4	60.0	65.0	3072 × 2304
	1024 × 768	ch1	56.5	70.1	75.0	3072 × 2304
	1024 × 768	ch1	60.0	75.0	78.8	3072 × 2304
	1024 × 768	ch1	68.7	85.0	94.5	3072 × 2304
SXGA	1280 × 1024	ch1	64.0	60.0	108.0	2560 × 2048
	1280 × 1024	ch1	80.0	75.0	135.0	2560 × 2048
UXGA	1600 × 1200	ch1	75.0	60.0	162.0	3200 × 2400
UXGA-Wide	1920 × 1200	ch1	50.3	40.9	127.2	3200 × 2400
QUXGA-Wide	(960 × 2400) × 4	ch1, ch2, ch3, ch4	99.2	40.9	104.8	3840 × 2400
	(1920 × 1200) × 4	ch1, ch2, ch3, ch4	49.6	40.9	104.8	3840 × 2400
	(1920 × 2400) × 2	ch1, ch2	61.2	25.1	125.0	3840 × 2400
	(1920 × 2400) × 2	ch1, ch2	58.7	24.1	120.0	3840 × 2400
	(1920 × 2400) × 2	ch1, ch2	48.9	20.1	100.0	3840 × 2400
	3840 × 2400	ch1	31.5	13.0	129.0	3840 × 2400
	3840 × 2400	ch1	30.73	12.66	148.0	3840 × 2400

Notes:

1. The type of resolutions supported depends on the video graphics card being used.

Extended modes

The addressability of the monitor is more advanced than those provided for in the industry standard display modes so in addition, monitor specific, or extended modes, have been developed.

Detailed timing information on these modes is provided to the video graphics card and system through the VESA DDC/EDID protocol. Depending on the application requirements and the capability of the video graphics card, it may be necessary to select an alternative EDID and configure the graphics card so that the optimum mode is enabled.

	Addressability (QUXGA-W)	DVI Input	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	EDID**												
						1	2	3	6	7	8	9	10	11	12	13		
23	(960 x 2400) x 4	ch1 ~ ch4	99.2	40.9	104.8				3									
24	(960 x 2400) x 4	ch1 ~ ch4	116.3	48	122.9												3	
25	(1920 x 1200) x 4	ch1 ~ ch4	50.1	40.9	104.8													
26	(1920 x 1200) x 4	ch1 ~ ch4	50.3	40.9	127.2	3	3	3	2									
27	(1920 x 1200) x 4	ch1 ~ ch4	58.9	48	122.5					2	2	2	2	1			2	
28	(1920 x 2400) x 2	ch1 + ch2	48.8	20.1	123.4	2												
29	(1920 x 2400) x 2	ch1 + ch2	58.4	24	149.5		2											
30	(1920 x 2400) x 2	ch1 + ch2	58.2	24	121							3						
31	(1920 x 2400) x 2	ch1 + ch2	60.9	25	155.8			2										
32	(1920 x 2400) x 2	ch1 + ch2	60.7	25	126.3								3					
33	1216 x 2400	ch1	117.8	48	164												3	
34	2624 x 2400	ch* (d-l)	117.8	48	328												2	
35	3840 x 2400	ch1	30.7	12.7	148	1	1	1	1									
36	3840 x 2400	ch1	29.2	12.1	116.8							1	1			1	1	
37	3840 x 2400	ch1* (d-l)	58.2	24	233					1								
38	3840 x 2400	ch1* (d-l)	60.7	25	243							1						

VP2290b / VP2290b-2 / VP2290b-3 modes																	
	Factory default setting - single input (13Hz), twin input (20Hz) & quad input (41Hz) modes	1															
	As default expect : Twin input mode timing changed to 24Hz		2														
	As default expect : Twin input mode timing changed to 25Hz			3													

VP2290b-2(for 4stripe) / VP2290b-3 modes																	
	Single input(13Hz), quad input(tile - 41Hz) & quad input(stripe - 41Hz)					6											

VP2290b-3 only modes																	
	Single input (24Hz)*, quad input (tile - 48Hz)							7									
	Single input (25Hz)*, quad input (tile - 48Hz)								8								
	Single input (12Hz), twin input(24Hz) & quad input (tile - 48Hz)									9							
	Single input (12Hz), twin input(25Hz) & quad input (tile - 48Hz)										10						
	Quad tile - 48Hz												11				
	Single input(12Hz), 3DVI input(48Hz)															12	
	Single input(12Hz), quad input(tile - 48Hz) & quad input(stripe - 48Hz)																13

(*EDID 4,5 are for test purposes only)

Updating the settings for your display

Unless you change the video graphics card that drives your display, there is usually no need to change the settings. In case the need does arise, a procedure for changing them is given in this appendix.

This operation must be done carefully. If incorrect parameters are specified, nothing will be displayed.

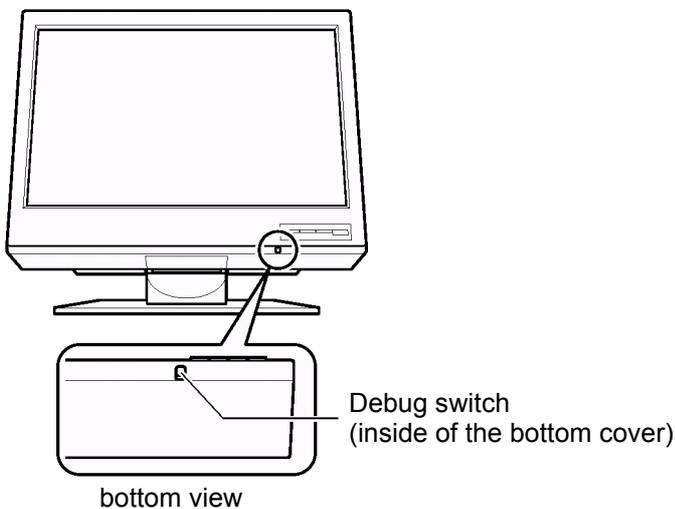
Applicable models

The procedure given in this document applies to displays with firmware at the following levels:

DDC CPU	Version 6.2 or higher
OSD CPU	Version 5.0 or higher
USB CPU	Version 4.0 or higher
FPGA LOGIC	Version 34 or higher

Procedure

1. Setting
 - a. Connect the display to the personal computer that is to be used as a video source.
 - b. Turn on the display and the PC. Wait until the system boots and a stable screen image is displayed. Confirm that the power indicator on the display shows green. If it is steady amber, press “Debug switch” with a stick to turn on the display. (See the following figure).



CAUTION:

Do not use conductive material to press this switch. It may damage the electric circuit inside of the display.

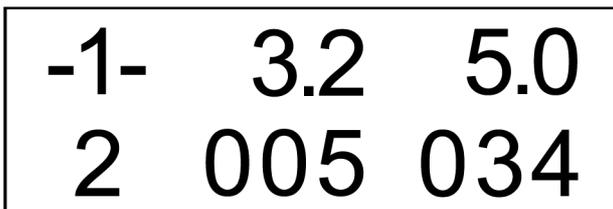
In this case, power indicator will show blinking amber, and image from PC does not appear. Some color pattern may appear on screen.

2. Enabling the special OSD (on-screen display) menu

- a. Press a menu switch and either the left switch or the right switch to select the (i) (information) menu. On that menu, press the menu switch to enter the information menu. There, a display showing the refresh rate and the screen resolution appears, as in this example:



- b. Press the left switch three times, and then press the right switch three times. Page 1 of the special OSD menu appears, as in this example:



In this display, the firmware version is shown in the following format:

-1- aaa bbb
c ddd eee

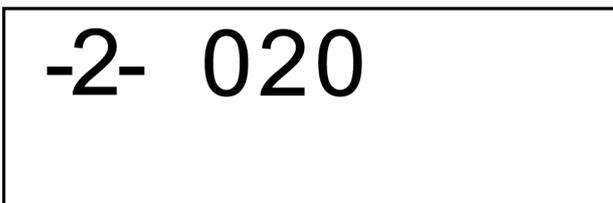
where

aaa: DDC-CPU
bbb: OSD-CPU
c: Reserved
ddd: USB-CPU
eee: FPGA-LOGIC

If the special OSD menu does not appear, press the menu switch to exit from the OSD menu. Then go to step 2a to try again.

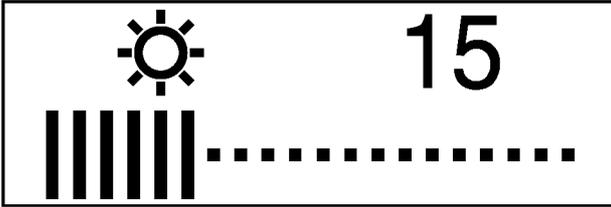
3. Checking the current settings

- a. Press the left or right switch to enter page 2 of the special OSD menu.
b. In about five seconds, the current settings will be displayed, as in this example:



If the setting is given as 000, any number greater than 63, or a value ending in X, an error has occurred; try step 3 on page 29 again. For details, see “Valid settings” on page 31.

4. Updating the settings
 - a. From the table on page 31, choose the number of the settings you want to use.
 - b. Set the brightness parameter to the value for the settings you have chosen (see “Brightness submenu” on page 15.). If you have enabled the special OSD menu, you can set the brightness at any level from 0 to 63, as in this example:



- c. Enter page 1 of the special OSD menu.
 - d. Press the left or right switch to enter page 2 of the menu. Then press both switches together, and hold them down until three dots appear on the display. The three dots show that the settings are in the process of being updated.



- e. In five seconds, the setting number now stored in this display will be displayed. If it is not the number you want, try again.

Note:

An attempt to enter an unsupported setting number will fail.

If the number ends in x, the updating has failed because the settings have not been programmed correctly. Try again.

- f. Turn off the display to disable the special OSD menu.

Important notices

If the display is connected to a powered-down PC, or if the screen resolution of the PC is being changed, the display will not be able to get access to the settings.

The settings cannot be reset to the factory default values by the procedure given in the user’s manual. To reset them to those values, check your model name and choose appropriate number, then update the settings.

ViewSonic VP2290b: Setting number 29

Valid settings

DDC-CPU version 6.2 can detect and update some settings. If it encounters any it does not recognize, it reads them as 000 (unknown).

From the following table, choose the settings that are appropriate for the operating system and video graphics card you are using.

If you want to use settings not listed in the table, consider upgrading to another version of DDC-CPU.

Settings are sometimes updated without notice. For the latest information, refer to <http://www.viewsonic.com>.

Even though a graphic card is listed here, some of its functions may not be supported.

Video graphics card	Supported EDID's
ATI® FireGL4 3D Labs Wildcat® 6110 / 6210 (*) 3D Labs Wildcat® 7110 / 7210 (*) nVIDIA Quadro® 4 900XGL/980XGL nVIDIA Quadro® FX-1000 nVIDIA Quadro® FX-2000 nVIDIA Quadro® FX-3000/FX-3000g	1, 2, 3
MATROX Parhelia HR256	6, 13
nVIDIA Quadro® 4 900XGL/980XGL nVIDIA Quadro® FX-1000 nVIDIA Quadro® FX-2000 nVIDIA Quadro® FX-3000/FX-3000g	9, 10, 11
nVIDIA Quadro® FX-2000 nVIDIA Quadro® FX-3000/FX-3000g	7, 8

Video graphics card	EDID No.										
	1	2	3	6	7	8	9	10	11	12	13
ATI® FireGL4	O	O	O								
3D Labs Wildcat® 6110 / 6210 (*)	O	O	O								
3D Labs Wildcat® 7110 / 7210 (*)	O	O	O								
nVIDIA Quadro® 4 900XGL/980XGL	O	O	O				O	O	O		
nVIDIA Quadro® FX-1000	O	O	O				O	O	O		
nVIDIA Quadro® FX-2000	O	O	O		O	O	O	O	O	O	
nVIDIA Quadro® FX-3000/FX-3000g	O	O	O		O	O	O	O	O	O	
MATROX Parhelia HR256				O							O

Customer Support

For technical support or product service, please contact ViewSonic.

NOTE: You will need the product serial number.

Country/Region	Web site	T = Telephone F = FAX	Email
United States	viewsonic.com/support	T: (800) 688-6688 F: (909) 468-1202	service.us@viewsonic.com
Canada	viewsonic.com/support	T: (800) 688-6688 F: (909) 468-1202	service.ca@viewsonic.com
Europe, Middle East, Baltic countries, and North Africa	viewsoniceurope.com	Contact your reseller	service.eu@viewsoniceurope.com
Australia and New Zealand	viewsonic.com.au	T: +61 2 9906 6277 F: +61 2 9906 6377	service@au.viewsonic.com
Singapore/India and Southeast Asia	viewsonic.com.sg	T: 65 6273 4018 F: 65 6273 1566	service@sg.viewsonic.com
Other Asia/Pacific countries	viewsonic.com.tw	T: 886 2 2246 3456 F: 886 2 8242 3668	service@tw.viewsonic.com
South Africa	viewsonic.com/asia	T: 886 2 2246 3456 F: 886 2 8242 3668	service.ap@viewsonic.com

Compliance

Compliance Information for U.S.A.

This equipment has been tested and found to comply with the limits for a Class A 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.

FCC Warning

To assure continued FCC compliance, the user must use grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. If a BNC cable is going to be used, use only a shielded BNC(5) cable. Also, any unauthorized changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Industry Canada Class A Emission Compliance Statement

This Class A digital apparatus complies with Canadian ICES-003.

Avis de Conformité à la Réglementation d'Industrie Canada

Cet appareil numérique de classe A est conforme à la norme NMB-003 du Canada.

European Union – EMC Directive

This product is in conformity with the protection requirements of the EU Council Directive 89/366/ECC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

ViewSonic cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of non-ViewSonic option cards.

This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to CISPR 22/European Standard EN 55022. The limits for Class A equipment were derived for commercial and industrial environments to provide reasonable protection against interference with licensed communication equipment.

<p>Warning: This is a Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.</p>
--

Deutsche EMV-Direktive (electromagnetische Verträglichkeit)

Dieses Gerät ist berechtigt in Übereinstimmung mit dem deutschen EMVG vom 9.Nov.92 das EG-Konformitätszeichen zu führen.

Der Aussteller der Konformitätserklärung ist die ViewSonic.

Dieses Gerät erfüllt die Bedingungen der EN 55022 Klasse A. Für diese Klasse von Geräten gilt folgende Bestimmung nach dem EMVG:

Geräte dürfen an Orten, für die sie nicht ausreichend entstört sind, nur mit besonderer Genehmigung des Bundesministers für Post und Telekommunikation oder des Bundesamtes für Post und Telekommunikation betrieben werden. Die Genehmigung wird erteilt, wenn keine elektromagnetischen Störungen zu erwarten sind.

Hinweis: Dieses Genehmigungsverfahren ist von der Deutschen Bundespost noch nicht veröffentlicht worden.

Union Européenne – Directive Conformité électromagnétique

Ce produit est conforme aux exigences de protection de la Directive 89/336/EEC du Conseil de l'UE sur le rapprochement des lois des États membres en matière de compatibilité électromagnétique.

ViewSonic ne peut accepter aucune responsabilité pour le manquement aux exigences de protection résultant d'une modification non recommandée du produit, y compris l'installation de cartes autres que les cartes ViewSonic.

Ce produit a été testé et il satisfait les conditions de l'équipement informatique de Classe A en vertu de CISPR22/Standard européen EN 55022. Les conditions pour l'équipement de Classe A ont été définies en fonction d'un contexte d'utilisation commercial et industriel afin de fournir une protection raisonnable contre l'interférence d'appareils de communication autorisés.

Avertissement: Ceci est un produit de Classe A. Dans un contexte résidentiel ce produit peut causer une interférence radio exigeant que l'utilisateur prenne des mesures adéquates.

Union Europea – Normativa EMC

Questo prodotto è conforme alle normative di protezione ai sensi della Direttiva del Consiglio dell'Unione Europea 89/336/CEE sull'armonizzazione legislativa degli stati membri in materia di compatibilità elettromagnetica.

ViewSonic non accetta responsabilità alcuna per la mancata conformità alle normative di protezione dovuta a modifiche non consigliate al prodotto, compresa l'installazione di schede e componenti di marca diversa da ViewSonic.

Le prove effettuate sul presente prodotto hanno accertato che esso rientra nei limiti stabiliti per le apparecchiature di informatica Classe A ai sensi del CISPR 22/Norma Europea EN 55022. I limiti delle apparecchiature della Classe A sono stati stabiliti al fine di fornire ragionevole protezione da interferenze mediante dispositivi di comunicazione in concessione in ambienti commerciali ed industriali. schede e componenti

Avvertimento: Questo è un prodotto appartenente alla Classe A. In ambiente domestico, tale prodotto può essere causa di interferenze radio, nel qual caso l'utente deve prendere misure adeguate.

Statements for Other Countries

この装置は、情報処理装置等電波障害自主規制協議会(VCCI)の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

Power Cord

For your safety, ViewSonic provides a power cord with a grounded attachment plug to use with this ViewSonic product. To avoid electrical shock, always use the power cord and plug with a properly grounded power outlet.

Power cords used in the United States and Canada are listed by the Underwriter's Laboratories (UL) and/or certified by the Canadian Standards Association (CSA).

For units intended to be operated at 115 volts: Use a UL-listed and/or CSA-certified cord set consisting of a minimum 18 AWG, Type SVT or SJT three-conductor cord, a maximum of 15 feet long, and a parallel blade, grounding-type attachment plug rated 15 amperes, 125 volts.

For units intended to be operated at 230 volts (U.S. use): Use a UL-listed and/or CSA-certified cord set consisting of a minimum 18 AWG, type SVT or SJT three-conductor cord, a maximum of 15 feet long, and a tandem blade, grounding-type attachment plug rated 15 amperes, 250 volts.

For units intended to be operated at 230 volts (outside the U.S.): Use a cord set with a grounding-type attachment plug. The cord set should have the appropriate safety approvals for the country in which the equipment will be installed.

Power cords for a specific country or region are usually available only in that country or region.

Power cord part number	Used in these countries or regions
13F9959	United States of America
13F9996	Denmark
14F0032	United Kingdom, China (Hong Kong S.A.R.)
39H0212 or 6454377	Japan
14F0050	Switzerland
14F0068	Italy

MPRII

This product complies with Swedish National Council for Metrology (MPR) standards issued in December 1999 (MPRII) for very low frequency (VLF) and extremely low frequency (ELF) emissions.

Hinweise

Gemäß der Amtsblätter des BMPT Nm. 61/1991 und 6/1992 wird der Betreiber darauf aufmerksam gemacht, daß die von ihm mit diesem Gerät zusammengestellte Anlage auch den technischen Bestimmungen dieser Amtsblätter genügen muß .

Aus ergonomischen Gründen wird empfohlen, die Grundfarbe Blau nicht auf dunklem Untergrund zu verwenden (schlechte Erkennbarkeit, Augenbelastung bei zu geringem Zeichenkontrast).

Aus ergonomischen Gründen sollten nur Darstellungen auf dunklem Hintergrund bei Vertikalfrequenzen ab 60 Hz (ohne Zeilensprung) benutzt werden.

Die Konvergenz des Bildes kann sich auf Grund des Magnetfeldes am Ort der Aufstellung aus der Korrekten Grundeinstellung verändern. Zur Korrektur empfiehlt es sich deshalb, die Regler an der Frontseite für H STAT und V STAT so einzustellen, daß die getrennt sichtbaren Farblinien für Rot, Grün und Blau bei z.B. der Darstellung eines Buchstabens zur Deckung (Konvergenz) gelangen. Siehe hierzu auch die Erklärungen zu H STAT und V STAT.

LIMITED WARRANTY

VIEWSONIC LCD DISPLAY

What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic will at its sole option repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

How long the warranty is effective:

ViewSonic LCD display are warranted for three (3) years for all parts excluding the lamp and three (3) years for all labor from the date of the first consumer purchase. Projector lamps are warranted separately.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
 - a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - b. Repair or attempted repair by anyone not authorized by ViewSonic.
 - c. Any damage of the product due to shipment.
 - d. Removal or installation of the product.
 - e. Causes external to the product, such as electric power fluctuations or failure.
 - f. Use of supplies or parts not meeting ViewSonic's specifications.
 - g. Normal wear and tear.
 - h. Any other cause which does not relate to a product defect.
3. Removal, installation, and set-up service charges.

How to get service:

1. For information about receiving service under warranty, contact ViewSonic Customer Support. You will need to provide your product's serial number.
2. To obtain warranted service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
3. Take or ship the product freight prepaid in the original container to an authorized ViewSonic service center or ViewSonic.
4. For additional information or the name of the nearest ViewSonic service center, contact ViewSonic.

Limitation of implied warranties:

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Exclusion of damages:

VIEWSONIC LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT. VIEWSONIC SHALL NOT BE LIABLE FOR:

1. DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE PRODUCT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY, LOSS OF GOODWILL, INTERFERENCE WITH BUSINESS RELATIONSHIPS, OR OTHER COMMERCIAL LOSS, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.
3. ANY CLAIM AGAINST THE CUSTOMER BY ANY OTHER PARTY.

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Sales outside the U.S.A. and Canada:

For warranty information and service on ViewSonic products sold outside of the U.S.A. and Canada, contact ViewSonic or your local ViewSonic dealer.

Appendix

Power Cord Safety Guidelines

Caution: Use a power cable that is properly grounded. Always use an AC power cord that meets your country's safety standard.

USA.....	UL	Switzerland	SEV
Canada.....	CSA	Britain.....	BASE/BS
Germany.....	VDE	Japan	Electric Appliance Control Act

AC PLUG CORD PRECAUTIONS FOR THE UNITED KINGDOM

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET THEN THE PLUG SHOULD BE CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO AN APPROPRIATE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.

If in any doubt, please consult a qualified electrician.

WARNING: THIS APPLIANCE MUST BE EARTHED.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

If the coloured wires of the mains lead of this appliance do not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the Earth symbol or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

IMPORTANT NOTICE CONCERNING POWER CORD SELECTION

The power cord set for this unit has been enclosed and has been selected according to the country of destination and must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord set, or if the cord set is not enclosed.

The female receptacle of the cord set must meet CEE-22 requirements and may look like (Figure A1 below):

Figure 1 

For the United States and Canada

In the United States and Canada the male plug is a NEMA5-15 style (Figure A2), UL Listed, and CSA Labeled. For units which are mounted on a desk or table, type SVT cord sets may be used. The cord set must be selected according to the current rating for your unit. Please consult the table below for the selection criteria for power cords used in the United States and Canada.

Figure 2 

Cord Type	Size of Conductors in Cord	Maximum Current Rating of Unit
SJT	18 AWG 16 AWG 14 AWG	10 Amps 12 Amps 12 Amps
SVT	18 AWG 17 AWG	10 Amps 12 Amps

For European Countries

In Europe you must use a cord set which is appropriate for the receptacles in your country. The cord set is HAR-Certified, and a special mark that will appear on the outer sheath, or on the insulation of one of the inner conductors.

If you have any questions concerning which proper power cord to use, please consult with the dealer from whom you have purchased the product.

Compliance Information for U.S.A.

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.

FCC Warning

To assure continued FCC compliance, the user must use grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. If a BNC cable is going to be used, use only a shielded BNC(5) cable. Also, any unauthorized changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Instructions to Users

This equipment complies with the requirements of FCC (Federal Communication Commission) equipment provided that the following condition is met. Use the cables which are included with the projector or specified.

Compliance Information for Canada

Notice: This class B digital apparatus complies with Canada ICES-003.

AVIS: Cet appareil numérique de la Classe B conforme a la norme NMB-003 du Canada.

Compliance Information for European Countries

CE Conformity



The device complies with the requirements of the EEC directive 89/336/EEC as amended by 92/31/EEC and 93/68/EEC Art.5 with regard to "Electromagnetic compatibility," and 73/23/EEC as amended by 93/68/EEC Art.13 with regard to "Safety."

User Information for all Countries

NOTICE: Use the cables which are included with the projector or specified.

ViewSonic[®] Corporation