ViewSonic®

N4000wP/N4050w LCD Display

User Guide

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Product Registration

To meet your future needs, and to receive any additional product information as it becomes available, please register your product on the Internet at: **www.viewsonic.com**. The ViewSonic© Wizard CDROM also provides an opportunity for you to print the registration form, which you may mail or fax to ViewSonic.

FOR YOUR RECORDS

Product Name : ViewSonic N4000wP/N4050w LCD Display

Model Number : VS10657-1

Document Number : A-CD-N4000wP_N4050w-1

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.

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Important Product Safety Instructions

Attention:
Follow and obey all warnings and instructions marked on your product. For your safety, please read all the safety and operating instructions before you operate this product. Keep this user guide for future reference.

Installation

1 Grounding or Polarization

Your product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not alter the safety purpose of the polarized plug.

2 Overloading

Do not overload well outlets, extension cords, or integral convenience receptacles as this can result fire or electronic shock.

3 Power Cord Protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords near plugs, convenience receptacles, and the point where they exit from the product.

4 Ventilation

Slots and openings on the cabinet is provided for ventilation purposes.To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

- Do not block the openings by placing the product on a bed, sofa, rug or other similar surface.
- Do not place the product in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction has been adhered to.

5 Other Notices

- Avoid exposing the N4000wP/N4050w to direct sunlight or high temperatures.
- Avoid exposing the N4000wP/N4050w to moisture or high humidity.
- Do not attempt repairs yourself. Your warranty does not cover repairs or attempted repairs by anyone not authorized by ViewSonic.
- If your N4000wP/N4050w will not be used for a long period of time, unplug and remove the batteries from the remote control.

6 Precautions

Sit at least two metres from your LCD DISPLAY. **Avoid touching the screen.** Skin oils are difficult to remove. **Never remove the rear cover.** Your LCD DISPLAY contains high-voltage parts. You may be seriously injured if you touch them.

- Avoid exposing your LCD DISPLAY to direct sunlight or another heat source. Orient your LCD DISPLAY away from direct sunlight to reduce glare.
- Always handle your LCD DISPLAY with care when moving it.
- Place your LCD DISPLAY in a well-ventilated area. Do not place anything on your LCD DISPLAY that prevents heat dissipation.
- Ensure the around the LCD DISPLAY is clean and free of moisture.
- Do not place heavy objects on the LCD DISPLAY, video cable, or power cord.
- If smoke, abnormal noise, or strange odor is present, immediately switch the LCD DISPLAY off and call your dealer or ViewSonic. It is dangerous to continue using the LCD DISPLAY.

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 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 LCD DISPLAY case. ViewSonic will not be liable for damage resulting from use of any ammonia or alcohol-based cleaners.

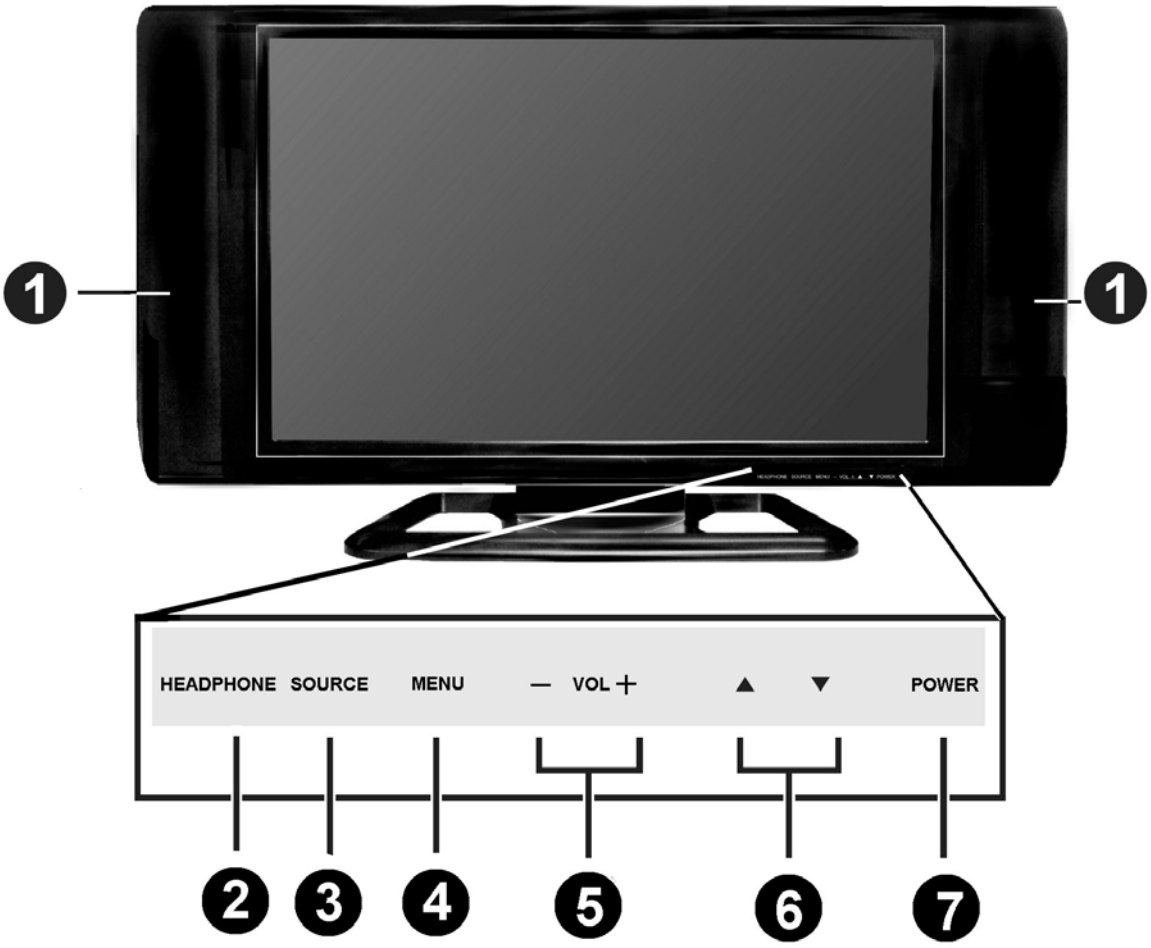
Getting Started

Congratulations on your purchase of a ViewSonic N4000wP or N4050w. Important! Save the original box and all packaging material for future shipping needs.

Package Contents

Please confirm that the following accessories are present when you unpack the box:
•LCD DISPLAY
•Remote Control (batteries included)
•Power Cord
•AV RCA Cable
•Quick Start Guide
•User Guide
•Speakers x 2 (available on N4050w)
•VGA cable
•Stand x 1 (available on N4050w)

Front View of the Product



1 **SPEAKERS** (Available on N4050w)
Audio output.

2 **HEADPHONE**
Used for connecting headphones to the Monitor.

3 **SOURCE**
Switch between display input sources.

4 **MENU**
Display menu screen.

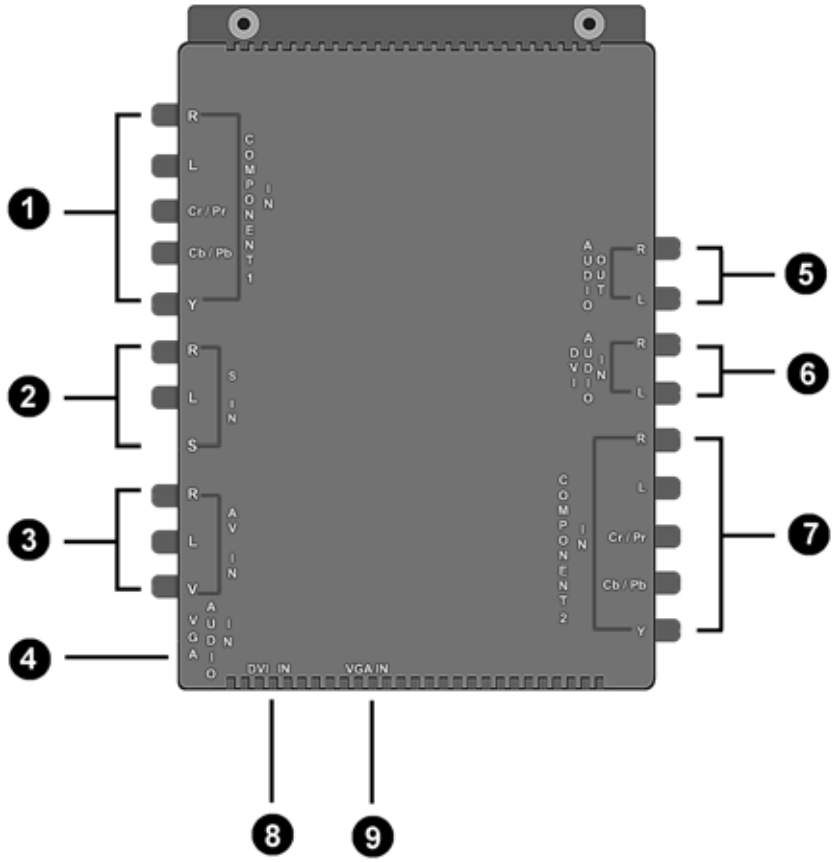
5 **VOL +/−**
Used for changing the volume.

6 **▲/▼**
Used for selecting OSD items.

7 **POWER**
Turns the Monitor on and off. A green light indicates that monitor is on and red when it is off.

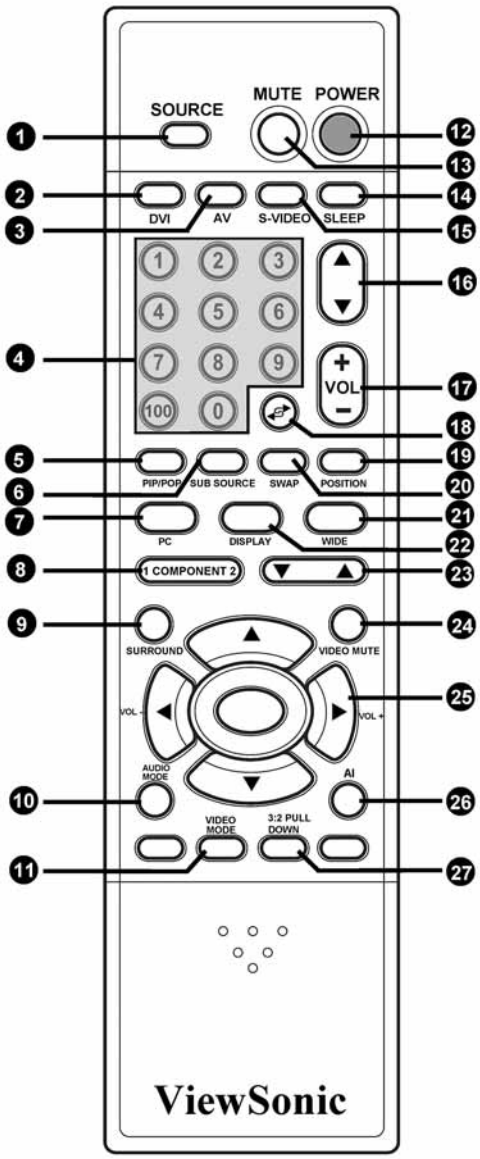
Rear View of the Product

AV Tuner Box

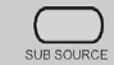


1. **COMPONENT 1 (YPbPr/YCbCr) IN**
   Connect external audio/video devices with component out to these jacks.
2. **S IN**
   Connect an S-Video cable to an external audio/video device such as a VCR, DVD, or a video game machine.
3. **AV IN**
   Connect a composite video (yellow) cable to an external audio/video device such as a VCR, DVD, or video game machine.
4. **VGA AUDIO IN**
   Connect to audio out (green) on your PC.
5. **AUDIO OUT**
   Used for connecting to an external stereo system.
6. **DVI AUDIO IN**
   Connect an audio cable to the audio output on your PC.
7. **COMPONENT 2 (YPbPr/YCbCr) IN**
   Connect external audio/video devices with component out to these jacks.
8. **DVI IN**
   Connects to the DVI output of your PC or portable computer.
9. **VGA IN**
   Connects to a computer's VGA out jack, enabling you to use the Displayer as a computer monitor.

Remote Control



1	SOURCES	**SOURCE** Toggles the input sources from AV > S > Component 1 > Component 2 > PC > DVI.
2	DVI	**DVI** Switch to DVI mode.
3	AV	**AV** Switches the source to AV (Composite) mode.
4	1	**Numeric buttons** (Not in use) Used for selecting the desired channel directly.
5	PIP/POP	**PIP/POP** Displays Main & Sub Pictures in PIP or POP format. (Picture in Picture/Picture on Picture) **NOTE:** If the Sub Picture has no input signal, only the main picture is shown.

6 

SUB SOURCE
Press to toggle the Sub picture between PIP and POP.

NOTE: The input source for the Sub Picture of PIP or POP depends on which one of two signal groups are displayed on the main screen. The two groups are: Group 1 with AV/S source signals and Group 2 with Component 1 & 2/PC/DVI source signals.

7

PC
Switch to PC mode.

8

COMPONENT
Toggles between component 1 and component 2 modes.

9

SURROUND
Switches between three different surround sound modes:
surround 1 → surround 2 → surround 3 → surround close

10

AUDIO MODE
Switches to Audio mode.

11

VIDEO MODE
Switches to Video mode.

12

POWER
Turns the power on and off.

13

MUTE
Turns the sound on and off.

14

SLEEP
Sets the time to turn off the unit.

15

S-VIDEO
Switches to S-Video input.

16

▲/▼
Up/down adjustment.

17

VOL +/–
Volume up/down adjustment.

18

RETURN
Return to the previous page.

19

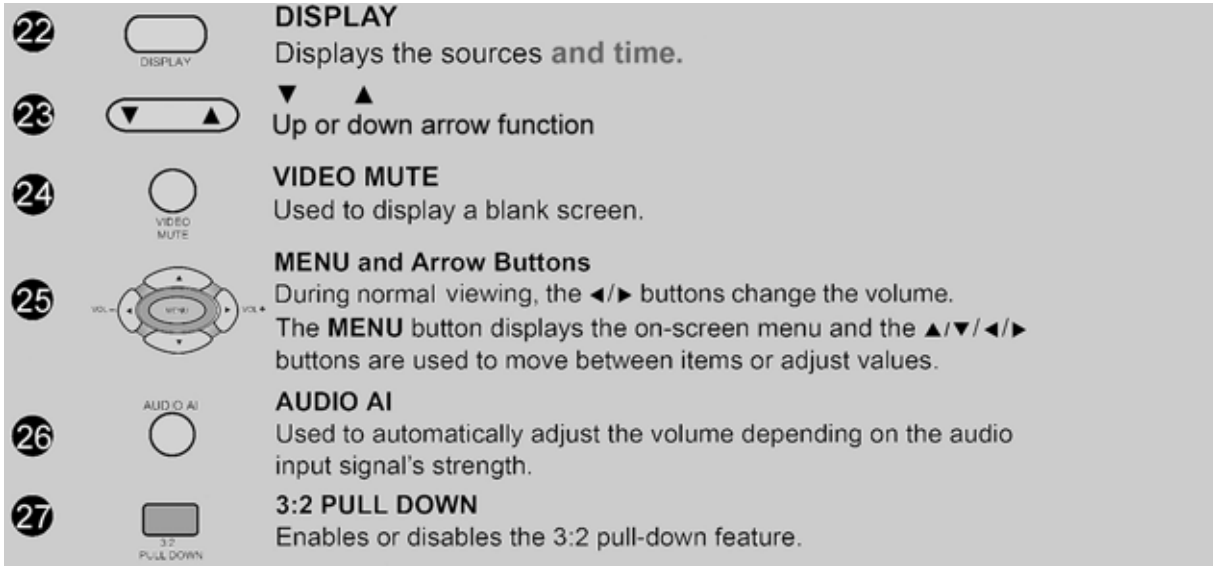
POSITION
Changes the display position of the Sub Picture in PIP mode.

20

SWAP
Toggles between input sources for the Main and Sub pictures.

21

WIDE
Selects the Video Display format.

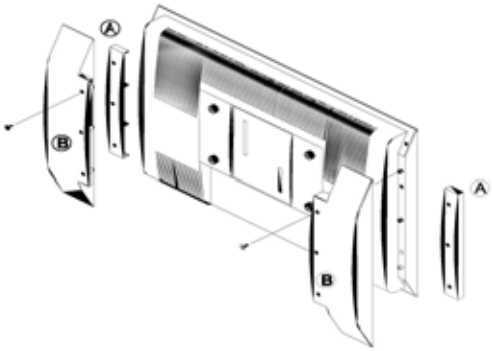


Note:

Availability of OSD controls may vary depending on type and source of applied input.

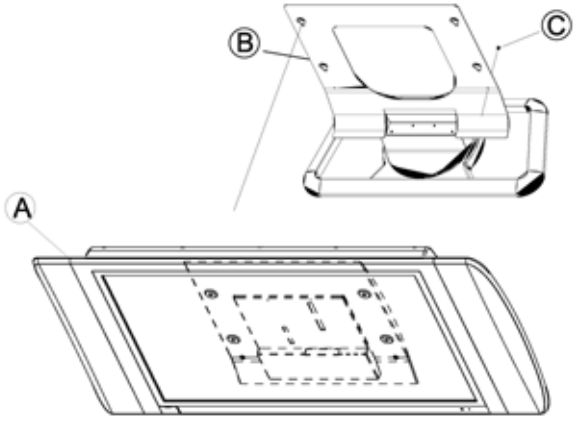
Installation (Optional)

Attaching the Speaker, Stand or Wall Mount.



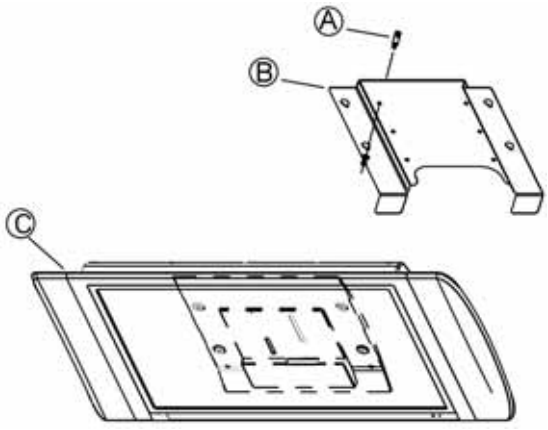
Follow these steps to attach the speakers. (Screw: M4 x 6)

1 Attach one part A and a speaker to one side of the LCD DISPLAY with screws as shown in the illustration.
2 Secure one part B to part A with screws as shown.
3 Repeat these steps to attach the second speaker.



Follow these steps to attach the stand. (Screw: M10 x 4 / M4 x 2)

1. Lay part A on a pad surface.
2. Fix part B (stand) on part A.
   (Four Screws behind part A.)
3. Screw part C (screws) on part A and part B.



Follow these steps to attach the wall mount. (Screw: M10 x 4 ; Screw bolt 3/8 inches x 6)

1. Use power drill to drill a hole 11mm in diameter and bolt part A (screw bolt) on the wall.
2. Bolt the wall mount on the wall.
3. Lastly, hook up the LCD TV on the wall mount.

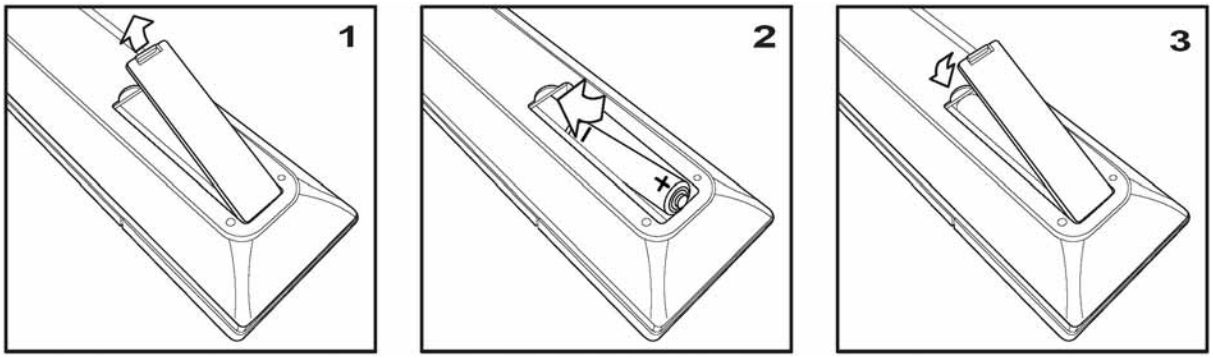
Remote Control Battery Installation

Follow the steps below to insert the batteries.

1 Open the remote control's rear battery compartment cover.

2 Insert two AAA batteries. Ensure that the positive and negative ends match as indicated on the bottom of the battery compartment.

3 Replace the battery compartment cover.

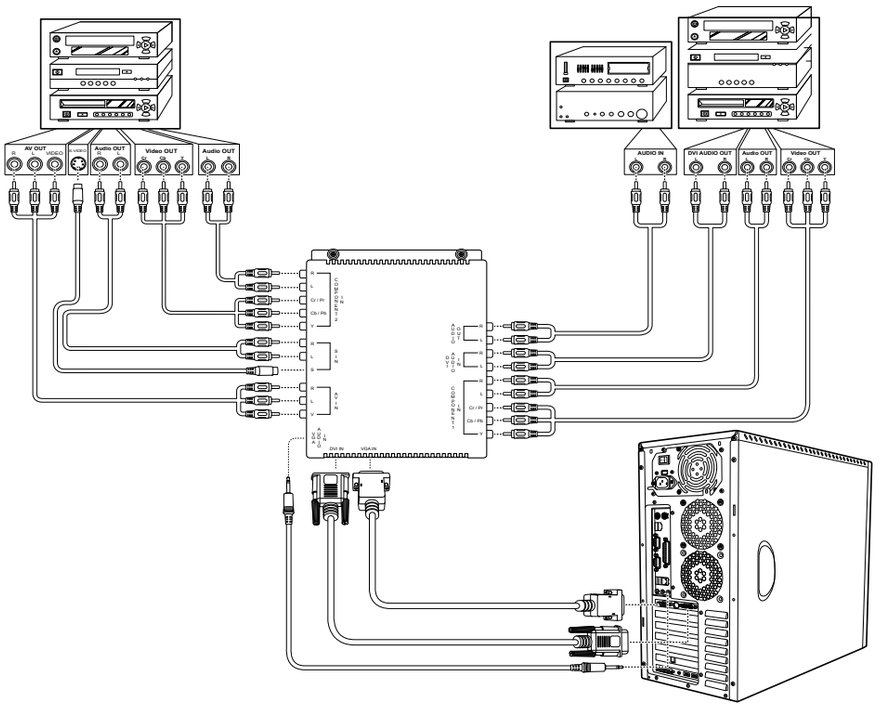


CAUTION

- Only use the specified AAA batteries.
- Do not mix new and old batteries. This may result in cracking or leakage, which may pose a fire risk or lead to personal injury.
- Insert batteries according to the (+) and (-) markings. Inserting the batteries incorrectly may result in cracking or leakage, which may pose a fire risk or lead to personal injury.
- Dispose of batteries in accordance with local laws and regulations.
- Keep batteries away from children and pets.
- If the remote control will not be used for an extended period of time, remove the batteries.

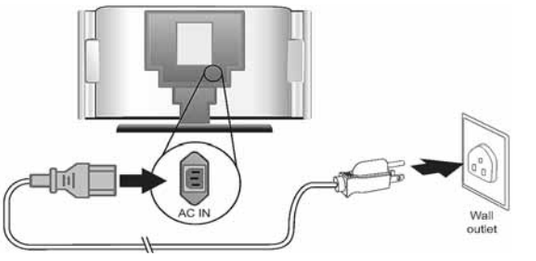
Cable Connections

Attach video and audio cables according to the connections on your external devices such as DVDs, VCR's, stereo systems.



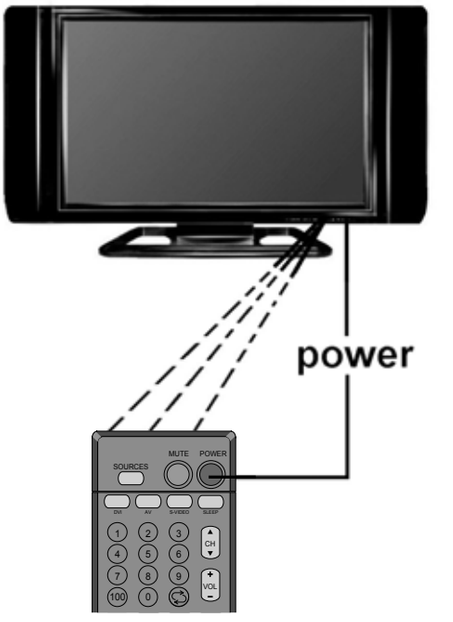
Power Cable Connection

1 Connect the power cable to a wall socket.
2 Connect the other end to the socket on the back of the LCD DISPLAY.



Turning the LCD Display (Power) On

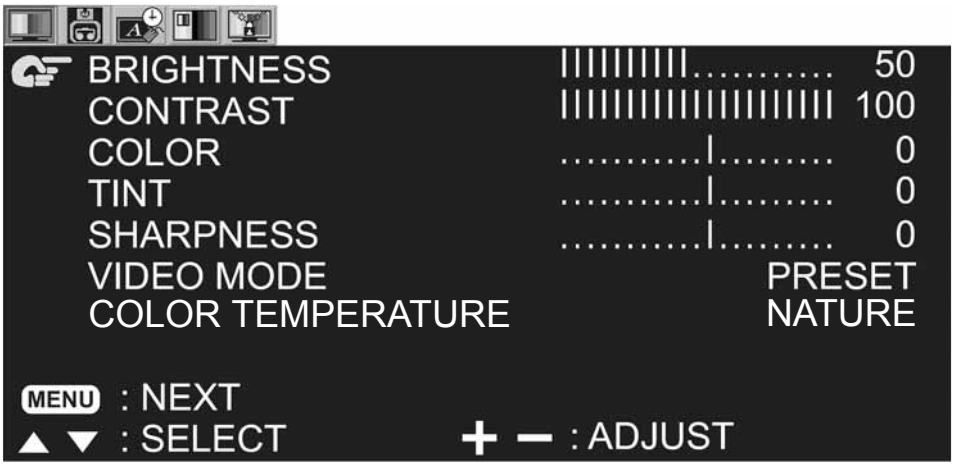
1 Press the power button. The power light will turn from red to green and the screen will appear after 5 seconds.
2 Press the power button again to turn it off.



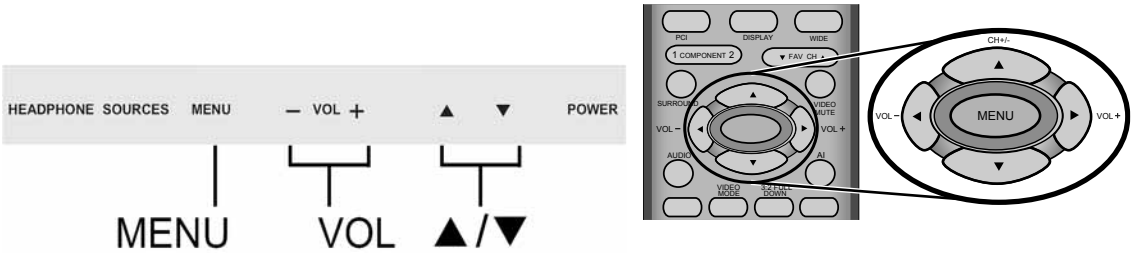
OSD Functions

All the functions for the LCD DISPLAY are controlled either by the remote control or the control buttons on the front control panel at bottom of the LCD Display. See “Front View of the Product” on page 6.

Press the **MENU** button on the remote control or the front control panel to LCD Display the OSD main menu.



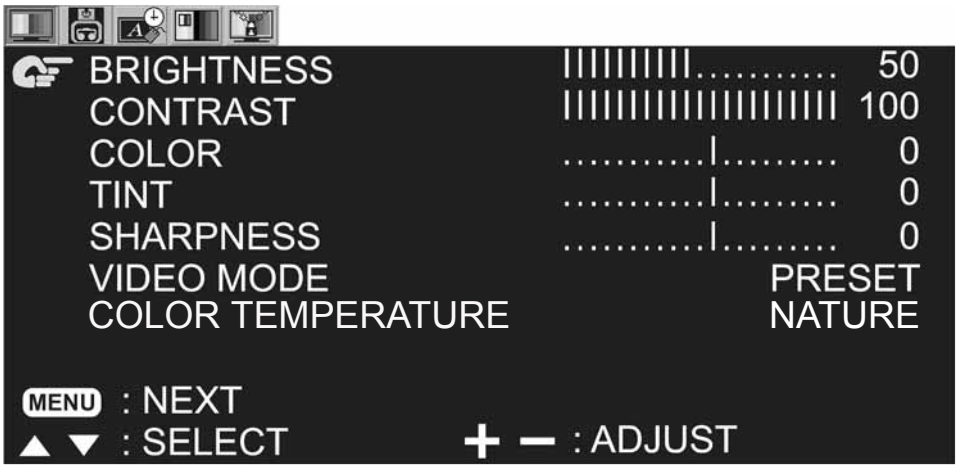
Press the MENU button to select the OSD menu you want.
Press the ▲ / ▼ buttons to select an OSD menu item.
Press the VOL +/– or the ◄ / ► buttons to change the values of the selected menu item



Press the **MENU** button to exit the OSD.

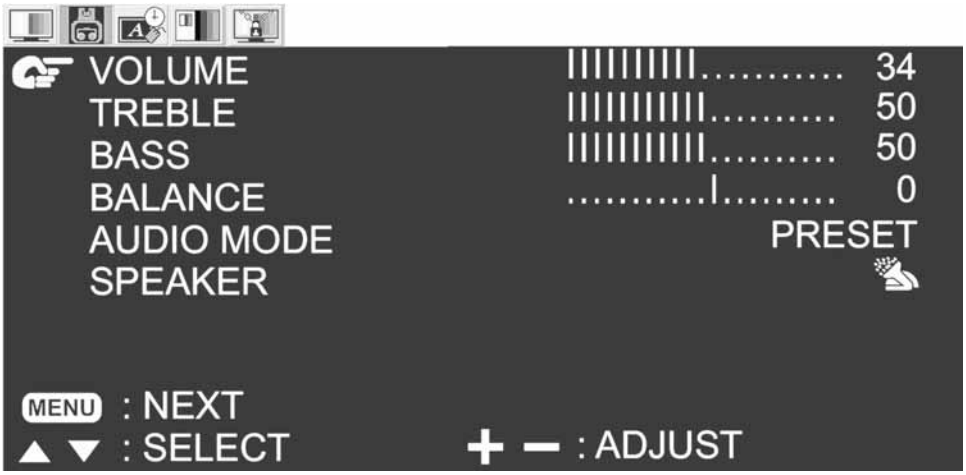
Source Input: AV/S-video

Image Adjustment



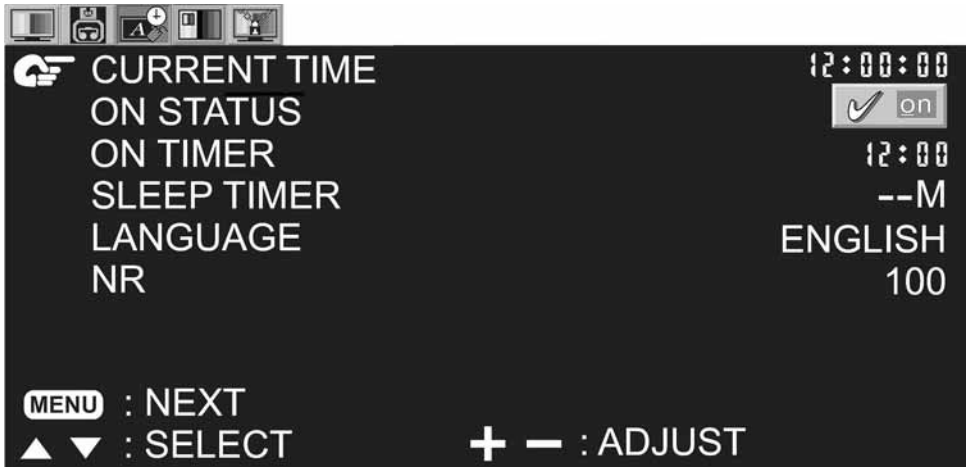
Function Name	Explanation
BRIGHTNESS	Brightness adjustment.
CONTRAST	Contrast adjustment.
COLOR	Color adjustment.
TINT	Tint adjustment.
SHARPNESS	Sharpness adjustment.
VIDEO MODE	Select LCD Display image Display: **Preset:** Factory default settings. **Soft:** Picture settings result in softer colors and less sharp images. **User:** User defined settings.
COLOR TEMPERATURE	Color temperature adjustment : COOL, WARM and NATURE.

Audio Adjustment



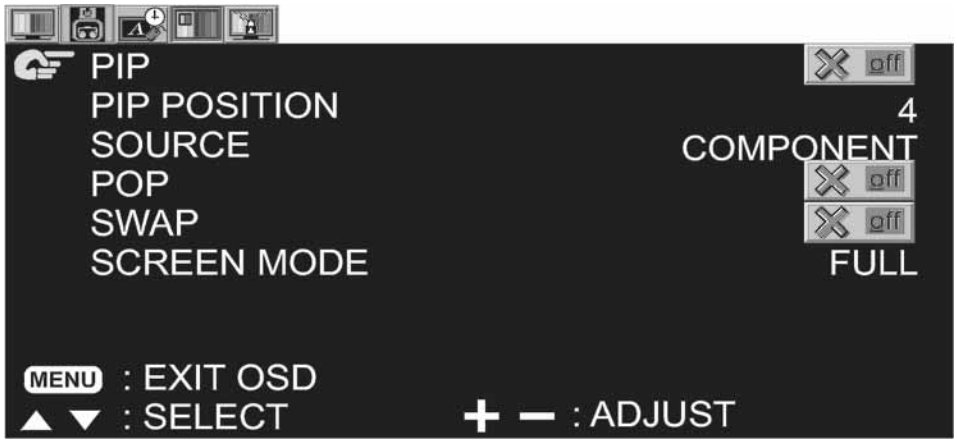
Function Name	Explanation
VOLUME	Volume adjustment.
TREBLE	Adjustment treble level.
BASS	Adjust bass level.
BALANCE	Adjust left and right speaker balance.
AUDIO MODE	Select audio settings: **Preset:** Factory default settings. **Soft:** Picture settings result in softer colors and less sharp images. **User:** User defined settings.
SPEAKER	Turns the speaker on and off (same as mute).

System Settings



Function Name	Explanation
CURRENT TIME	Enables you to set the current time.
ON STATUS	Enables or disables the LCD Display on timer.
ON TIMER	Enables you to set a time for the LCD Display to power on.
SLEEP TIMER	Set the sleep time on LCD Display from off,10,20,30,40,50,60,70,80,90 minutes.
LANGUAGE	Choose OSD language: English, Spanish, French, and Traditional Chinese.
NR	Noise Reduction adjustment.

Screen Setting



Function Name	Explanation
PIP	Enables or disables picture in picture (PIP) function
PIP POSITION	Moves the mini-screen to one of the screen's four corners.
SOURCE	Switches between using AV/S-Video and Component/RGB/DVI for the main-screen.
POP	Enables or disables picture on picture (POP) function.
SWAP	Swaps the main and mini screen around, i.e. the main screen becomes the mini-screen and vice-versa. When in POP mode, only the subtitles are swapped.
SCREEN MODE	Selects the screen LCD Display format.

Source Input: PC

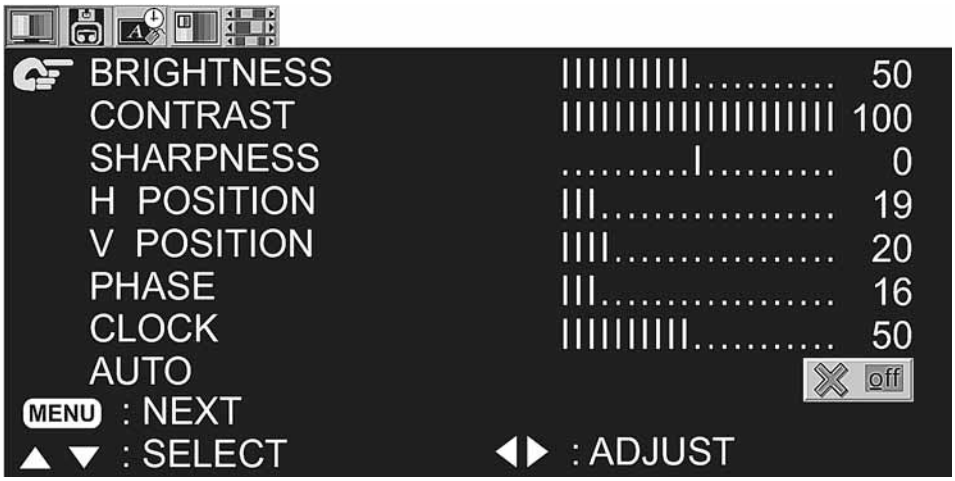


Image Adjustment

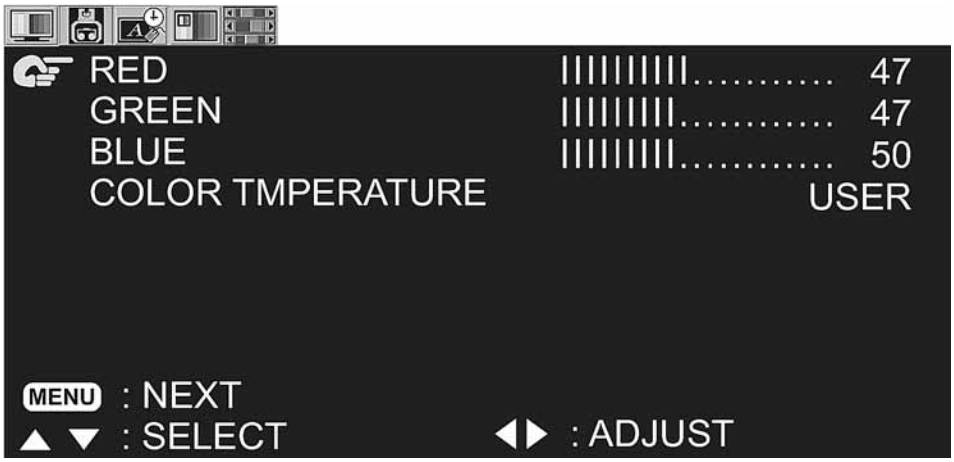
Function Name	Explanation
BRIGHTNESS	Brightness adjustment.
CONTRAST	Contrast adjustment.
SHARPNESS	Sharpness adjustment.
H POSITION	Adjust horizontal position on the image.
V POSITION	Adjust vertical position on the image.
PHASE	Adjust the phase of screen to obtain the best output.
CLOCK	Adjust screen's horizontal size.
AUTO	Automatically adjusts the screen according to the input sig-nal source.

Audio Adjustment
See page16.

System Settings
See page17.

Screen Settings
See Page18.

Color Adjustment



Function Name	Explanation
RED	Adjusts the red color.
GREEN	Adjusts the green color.
BLUE	Adjusts the blue color.
COLOR TEMPERATURE	Color temperature adjustment: cool, warm and nature

NOTES:
For PC operation when using DVI-D input, a resolution of 1280 x 768 at 60Hz is recommended.

Source Input: DVI-D

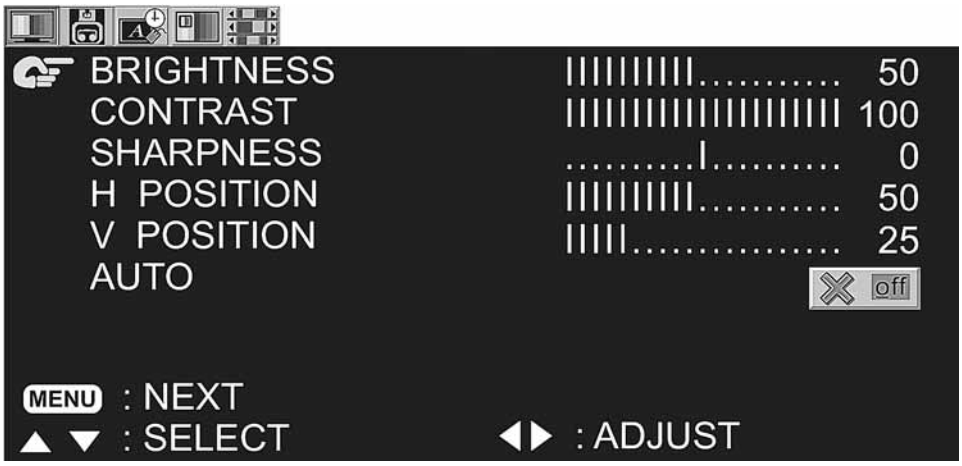


Image Adjustment

Function Name	Explanation
BRIGHTNESS	Adjusts the light level intensity of the screen.
CONTRAST	Adjusts the light and dark level difference of the screen.
SHARPNESS	Adjusts the sharpness level of the screen.
H POSITION	Adjusts the screen's horizontal position.
V POSITION	Adjusts the screen's vertical position
AUTO	Auto adjusts the phase, clock, and position of the image.

Audio Adjustment
See page16.

System Settings
See page17.

Screen Settings
See page18.

Color Adjustment
See page20.

Appendix

Specifications

Panel	Type	40" diagonal viewable area, TFT active matrix LCD display. 1280 x 768 native
	Color	Anti-reflective coating + Anti-glare coating
Viewing angles		170° (H) / 170° (V)
Input signal	Video	RGB Analog * 1 (75 ohms, 0.7 Vp-p) H/V separated (TTL) for PC fh: 30-70 KHz, fv: 50-75 Hz Composite Video * 1 S-Video * 1 Component Video * 2 (YCbCr, YPbPr) DVI-D * 1
	Video Standard	NTSC, 480i/p, 720p, 1080i
	Audio	Mini-stereo * 1, RCA (L/R) stereo * 5
Compatibility	PC	Up to 1280 x 768 Non-interlaced
	Macintosh1	Power Macintosh up to 1024 x 768
Resolution	Supported	1280 x 768 @ 60 Hz 1024 x 768 @ 60/70/75 Hz 832 x 624 @ 75 Hz 800 x 600 @ 56/60/70/75 Hz 640 x 480 @ 60/70/75 Hz 720 x 400 @ 70 Hz
Speaker output		12W
Power	Voltage	100-240 VAC, 50/60 Hz (auto switch), 260W
Operating conditions	Temperature	0°C to 40°C (32°F to 104°F)
	Humidity	10% to 90% (no condensation)
	Altitude	To 3000 feet
Storage conditions	Temperature	-20°C to 60°C (-4°F to 140°F)
	Humidity	10% to 90% (no condensation)
	Altitude	To 12,000 feet
Dimensions	Physical	(N4050w) : 1265 mm (W) x 720 mm (H) x 320 mm(D) 49.8” (W) x 28” (H) x 12.5 “(D) (N4000wP) : 1020 mm (W) x 650 mm (H) x 95 mm (D) 40.2” (W) x 25.6 “ (H) x 3.7” (D)
Weight	Net	(N4050w): 39kg (81.7lb); (N4000wP): 30.7kg (64.5lb)
Regulations		UL, FCC, ICES-003
Power saving modes	On	260W (Green LED)
	Active Off	<5W (Orange LED)

Preset Timing Mode (Pre-adjusted to VESA 1280 x 768 at 60 Hz)
Warning: Do not set the graphics card in you computer to exceed these refresh rates. Doing so may result in permanent damage to the LCD DISPLAY.
Note: Product specifications are subject to change without notice.

Troubleshooting

No power
- Make sure the LCD DISPLAY is properly connected. (see also pages 11-13)
- Make sure the AC power cord is properly connected. (see also page 13)
- Make sure the DC power button is ON (Green LED).
- Plug another electrical device (like a radio) to the power outlet to verify that the outlet is supplying the proper voltage.

No picture
- Make sure that connection to other components are correct. (see also pages 11-13)
- Make sure that setup has been done correctly after connections. (see also pages 14-18)
- Make sure the correct input is selected and the input signal is compatible. (see also page 18)

Strange color, light color, or color misalignment
- Ensure that the video cable is securely connected.
- The picture may appear dim in a brightly lit room.
- Adjust brightness and contrast.
- Check the input signal setting.

No sound
- Check your audio connections
- The MUTE button may have been pressed, try pressing this button again.
- Check your audio settings, your LCD Display audio may be set to minimum.
- Press the Volume + (Up) button on the remote control.

Remote control unit does not operate
- Make sure batteries are inserted correctly. (see also page 12)
- Batteries could be weak or dead. Replace batteries.
- Is a fluorescent light illuminated near the remote control sensor?
- The path of the remote control beam may be blocked. Make sure the path is clear and that the remote control is aimed at the remote control sensor on the LCD Display.
- Press only one button at a time and it is the correct one for the operation you want to perform.

Unit cannot be operated
- External influences such as lightning or static electricity may cause improper operation. In this case, operate the unit after first turning on the power of the LCD Display and the AVC System, or unplug the AC cord for 1 to 2 minutes, then replug again.

Power is cut off suddenly
- Is the sleep timer set? (see also page 17)
- The internal temperature of the unit has increased. Remove any objects blocking the vent or clean as necessary.

Picture is cut off/with sidebar screen.
- Is the image positioned correctly?
- Are screen mode adjustments such as picture size set correctly?

Customer Support

For technical support or product service, see the table below or contact your reseller.
NOTE: You will need the product serial number.

Country/Region	Web site	T= Telephone F= FAX	E-mail
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
Other Asia/Pacific countries	Viewsonic .com.tw	T: 886 2 2246 3456 F: 886 2 8242 3668	Service@tw.viewsonic.com

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 N4000wP/N4050w LCD DISPLAY is warranted for one (1) year for all parts including the light source and one (1) year for all labor from the date of the first consumer purchase.
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 electrical 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 service under warranty, 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, EXPRESSED 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'S 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 OPPORTUNITIES, 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 USA and Canada:
For warranty information and service on ViewSonic products sold outside of the USA and Canada, contact ViewSonic or your local ViewSonic dealer.

ViewSonic LCD DISPLAY Warranty (V3.0) Release Date: 01-29-2002

Safety Guidelines

Warning: This device must be operated with the original power supply, part number: 12VDC LSE9901B1250, 12VDC UP06031120.
CAUTION: The socket-outlet should be installed near the equipment and should be accessible.
CAUTION: Use a power cable that is properly grounded. Always use the appropriate AC cord that is certified for the individual country. Some examples are listed below:

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

IMPORTANT NOTICE CONCERNING POWER CORD SELECTION

The power cord set for this unit is 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 meed IEC-60320 requirements and may look like figure A1 below:

Figure A1

Figure A2

For the United States and Canada

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

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

Compliance Information for USA

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:

- Reorientate 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 technician for help.

FCC Warning

To assure continued FCC compliance, the user must use a 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.