ViewSonic®

N5230p LCD TV

- User Guide
- Guide de l'utilisateur
- Guía del usuario

IMPORTANT: Please read this User Guide to obtain important information on installing and using your product in a safe manner, as well as registering your product for future service. Warranty information contained in this User Guide will describe your limited coverage from ViewSonic Corporation, which is also found on our web site at http:// www.viewsonic.com in English, or in specific languages using the Regional selection box in the upper right corner of our website.

"Before operating the equipment, read the instructions in this manual carefully."



Model No.: VS12117-1M

Dear ViewSonic customer,

Congratulations on your purchase of a ViewSonic TV display. For maximum benefit of your TV, please read these instructions before any operations.

For assistance, please contact ViewSonic service team at http://www.viewsonic.com or call our service team: United States 1-800-688-6688, Canada 1-866-463-4775.

To purchase or inquire about any accessories and installation services for your TV, please visit www.viewsonic.com or call: United States 1-800-688-6688, Canada 1-866-463-4775.

Important! Please save the original box and all packing material for future shipping needs.

We recommend you registering your TV on the internet at: www.viewsonic.com

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.

| For Your Records | | |
|-------------------------|-----------------------------------|--|
| Product Name: | [] N5230p | |
| | ViewSonic LCD TV | |
| Model Number: | [] VS12117-1M | |
| Document Number: | N5230p-1M_UG_ENG Rev. 1A 04-03-08 | |
| 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.

The lamp in this product contains mercury. Please dispose of properly in accordance with environmental laws of your location.

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 | Email |
|----------------|-------------------|---|--------------------------|
| United States | www.viewsonic.com | T (Toll-Free) = 1-800-688-6688 T (Toll) = 1-424-233-2530 F = 1-909-468-1202 | service.us@viewsonic.com |
| Canada | www.viewsonic.com | T (Toll-Free) = 1-866-463-4775 T (Toll) = 1-424-233-2533 F = 1-909-468-1202 | service.ca@viewsonic.com |

Renta y Datos, 29 SUR 721, COL. LA PAZ, 72160 PUEBLA, PUE. Tel: 01.222.891.55.77 CON 10 LINEAS Electroser, Av Reforma No. 403Gx39 y 41, 97000 Mérida, Yucatán. Tel: 01.999.925.19.16 Other places please refer to http://www.viewsonic.com/la/soporte/index.htm#Mexico

Contact ViewSonic service team at: http://www.ViewSonic.com or call our service team: United States 1-800-688-6688, Canada 1-866-463-4775

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Caution

To find the perfect mount for N5230p, please browse <u>www.viewsonic.com</u> or call our service team: United States 1-800-688-6688, Canada 1-866-463-4775.

Copyright Information

Copyright © ViewSonic® Corporation, 2008. All rights reserved.

ViewSonic, the three birds logo, OnView, ViewMatch, and ViewMeter are registered trademarks of ViewSonic Corporation.

ENERGY STAR* is a registered trademark of the U.S. Environmental Protection Agency (EPA). As an ENERGY STAR* partner, ViewSonic Corporation has determined that this product meets the ENERGY STAR* guidelines for energy efficiency.

Disclaimer: ViewSonic Corporation shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from furnishing this material, or the performance or use of this product.

In the interest of continuing product improvement, ViewSonic Corporation reserves the right to change product specifications without notice. Information in this document may change without notice.

No part of this document may be copied, reproduced, or transmitted by any means, for any purpose without prior written permission from ViewSonic Corporation.

WARNING

Do not expose this TV to rain or moisture. It may increase the risk to fire or electronic shock.





Dangerous Voltage: The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence dangerous voltage within the inside of the product that may be sufficient level to constitute a risk of electric shock to persons.



Instruction: The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying the appliance.

The TV shall not be exposed to dripping or splashing. Do not put objects filled with liquids, such as vases, on the TV.

CAUTION

To prevent electric shock, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Declaration of Conformity

Trade Name: ViewSonic

Model: N5230p

Responsible Party: ViewSonic Corporation Address: 381 Brea Canyon Road, Walnut,

CA. 91789 USA

Telephone Number: 800-688-6688

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

NOTIFICATION

This device 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 device 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 device and receiver.
- Connect the device 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.

Pursuant to FCC regulations, be cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Safety

- \Diamond Operate the TV only on 120 240 V AC.
- ♦ Use the AC power cord specified by ViewSonic and suitable for the voltage where you use it.
- ♦ The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- ♦ If any liquid or solid object should fall inside the cabinet, stop operating, unplug the TV immediately and have it check by qualified service technician.

- ♦ If you will not be using the TV for a long time, disconnect the power by pulling the plug itself. Do not pull on the cord.
- ♦ For details concerning safety precautions, refer to "Important Safety instructions" on page 3.

Installation

- ♦ The TV should be installed near an easily accessible power outlet.
- ♦ To prevent internal heat buildup, do not block the ventilation openings.
- ♦ Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- ♦ Avoid operating the TV at temperatures below 41°F (5°C).
- ♦ When the TV is transported directly form a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color due to moisture condensation. In this case, please wait a few hours before turning on the TV, in order to let the moisture evaporate first.
- ♦ To ensure best picture quality, do not expose the screen to direct illumination or sunlight. We recommend you use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque curtains. It is better that TV is installed where the floor and walls are not of a reflective material.

To Customers

To install the specified TV, sufficient expertise is required. Make sure you subcontract the installation to ViewSonic dealer or licensed contractors and pay adequate attention to safety during the installation.

Note

This television includes a QAM demodulator, which should allow you to receive unscrambled digital cable television programming via subscription service to a cable service provider. The type of programming and signal provided by your cable service provider will affect the availability of digital cable television programming in your area.

Trademark Information

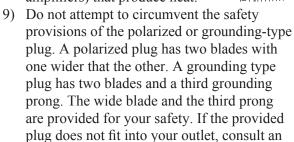
Macintosh is a trademark of Apple Inc., registered in the U.S. and other countries. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of Dolby Laboratories

Blu-ray Disc is a trademark.

Adobe is a registered trademark or a trademark of Adobe Systems Incorporated in United States and/or other countries.

Important Safety Instructions

- 1) Read these instructions completely before using the equipment.
- 2) Keep these instructions in a safe place.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean with a soft, dry cloth.
- Do not block any ventilation openings.
 Install the equipment in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.



10) Prevent the power cord from being tread upon or pinched, particularly at the plug, convenience receptacles, and the point where they exit from the device. Be sure that the power outlet is located near the equipment so that it is easily accessible.

electrician for replacement of the outlet.

- 11) Only use attachments/ accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus when it will be unused for a long period of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, or the unit does not operate normally, or has been dropped.

USE

AC power Cord

Keep the following guidelines to protect the AC power cord from being damaged. If the AV power cord is damaged, it may result in a fire or an electric shock. Stop using it and ask your dealer or ViewSonic service center to exchange it.

- ♦ Do not place the TV where the power cord is subject to wear or abuse.
- ♦ Do not pinch, bend, or twist the cord excessively. The core lines may be bared and cut, causing a short-circuit, and resulting in a fire or an electric shock.
- ♦ Do not convert or damage the power cord.
- ♦ Avoid power cord being rolled over or rested upon.



- ♦ Keep the power cord away from heat sources.
- ♦ When you disconnect the AC power cord, disconnect it from the wall outlet first.
- ♦ When disconnecting the power cord, grasp the plug instead of pulling the power cord.
- ♦ Use only an original ViewSonic AC power cord, not other brands.
- ♦ Do not use the supplied AC power cord on any other quipment.

Wall outlet

The TV set with a three-wire grounding type of AC power cord plug must be connected to an AC power socket outlet with a protective grounding connection.

Do not use an unfitting outlet.

Insert the plug fully into the outlet. If it is loose, do not use it. Doing so may cause arcing and result in a fire.

Contact your electrician to change the outlet.

Wiring

For your safety, be sure to unplug the AC power cord when connecting cables.

Take care not to trip on the cables. It may cause damage to the TV set.

Electric shock

Do not touch the AC power cord or the TV with a wet hand. If you plug/unplug the AC power cord from the TV with a wet hand, it may cause electric shock.



Lightning storms

During a lightning storm, unplug the TV from the wall outlet and disconnect the antenna to prevent damage to the TV.

When not in use

If you will not be using the TV set for long periods of time, the TV set should be disconnected from the AC power outlet to prevent power line surges. The TV set is not disconnected from the AC power source when the TV set is switched off. To disconnect the TV set completely, unplug from the AC power outlet.

Overloading

This TV set is designed to operate on a 120 - 240 V AC supply only. If there are too many appliances connected to the same AC power outlet, it could result in a fire or an electric shock.



Optional equipment

If optional equipment is to be installed, leave some space between optional equipment and the TV set. Picture distortion and/or noisy sound may occur if the TV set is positioned in close proximity to any equipment emitting electromagnetic radiation.

Small accessories

Keep small accessories in as safe place where children are unable to reach.

ANTENNAS

Outdoor antenna grounding

If an outdoor antenna is installed, follow the precautions below. Do not install the outdoor antenna system in near of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so that it can provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code (NEC) in the U.S.A. and Section 54 of the Canadian Electrical Code in Canada provides information with in regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Antenna grounding according to the National Electrical Code, ANS/NFPA 70



NEC: National Electrical Code

BATTERIES

- ♦ Do not cast away batteries in a fire.
- ♦ Do not disassembled, overheat, or short-circuit the batteries.
- ♦ If battery replaced in the wrong way, it may cause danger of explosion. Replace only with the same or equivalent type.

Dispose used batteries

To preserve our environment, dispose of used batteries according to your local laws or regulations.

CLEANING

Cleaning the AC power plug

Unplug the AC power plug and clean it regularly. If the plug is covered with dust and gathers moisture, its insulation may deteriorate and result in a fire.



Cleaning the screen surface/ cabinet of the TV set

When cleaning this TV, unplug the AC power cord. If not, it may result in electric shock. Use a dry soft cloth



to clean the cabinet of the TV. To remove dust form the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with a solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning. If using a chemically pretreated cloth, please follow the instruction provided on the package. The ventilation holes can accumulate dust over time. To ensure proper ventilation, we recommend you to remove the dust periodically (once a month) using a vacuum cleaner, while the LCD TV is powered off.

MAGNETIC INFLUENCE

This TV contains a strong magnet in the speaker unit that generates a magnetic field. Keep any items susceptible to magnetic fields away from the speaker.

SOUND

If you hear snapping or popping sound comes from the TV continuously or frequently while the TV is operating, unplug the TV and consult your



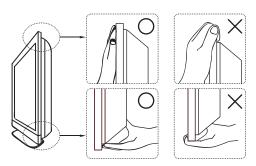
dealer or service technician. It is normal for some TVs to make occasional snapping or popping sounds, particularly when being turned on or off.

CARRYING THE TV

Carry the TV as instructed

To prevent dropping the TV and causing serious injury, you must follow these guidelines:

- ♦ Disconnect all cables before carrying the TV.
- ♦ Carrying the large size TV requires at least two or three people.
- ♦ When you carry the TV, place your hands as illustrated and hold it securely. Do not put stress on the LCD panel and the frame around the screen.
- ♦ When carrying the TV, do not subject it to shocks, vibration, or excessive force.
- ♦ When lifting or moving the TV, hold it securely from from the bottom. Place your palm directly under the panel.



VENTILATION

Slots and openings in TV are provided for ventilation. To ensure reliable operation of the TV and to protect it from overheating, be sure these openings are not blocked or covered.

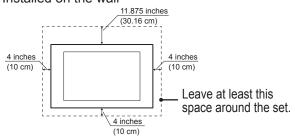
The TV may accumulate dust and get dirty if proper ventilation is not provided. For proper ventilation, follow the following guidelines:

- ♦ Never install the TV face up, down or sideways.
- ♦ Never install the TV turned over or upside down.
- ♦ Never cover the slots and openings with a cloth or other materials.
- ♦ Never block the slots and openings by placing the TV on a bed, sofa, rug or other similar surface.
- ♦ Never place the TV in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.

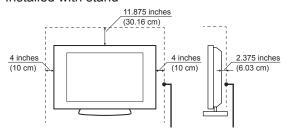


Leave some space around the TV set as shown below. Otherwise, air-circulation may be inadequate and cause overheating, which may cause a fire or damage to the TV set.

Installed on the wall

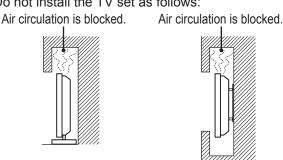


Installed with stand



Leave at least this space around the set.

Do not install the TV set as follows:



Contact ViewSonic service team at: http://www.ViewSonic.com or call our service team: United States 1-800-688-6688, Canada 1-866-463-4775

Objects and ventilation holes

Never push any objects into the slots on the TV cabinet as they may touch dangerous voltage points or short out parts that could result in a fire or an electric shock. Do not place any objects on the TV.

MOISTURE

Moisture and flammable objects

- ♦ Keep the product away from moisture. Do not expose this appliance to rain or moisture. Do not place objects filled with liquids, such as vases, on the TV.
- ♦ Do not use power-line operated V sets near water, such as in places like a bathtub, washbowl, kitchen sink, laundry tub, a wet basement, or near a swimming pool, etc. It may cause fire or electric shock
- ♦ Do not let this TV get wet. Never spill liquid of any kind on the TV. If water penetrates into the product, unplug the power cord and contact ViewSonic. Donot operate the TV. It may result in electric shock or damage to the TV.
- ♦ To prevent fire, keep flammable objects or open flame (e.g. candles) away from the TV.





INSTALLATION

To do Wall mount installation, you need a Wall-Mount Bracket. When installing or removing the TV using the Wall-Mount Bracket, be sure to use qualified contractors. If not properly secured during installation or removal from the Wall-Mount Bracket, the TV may fall and cause serious injury.

Optional wall mount

- When installing the TV using a Wall-Mount Bracket, make sure you follow the operating instructions supplied with the Wall-Mount Bracket.
- Attach the brackets supplied with the Wall-Mount Bracket.
- ♦ The TV is not designed for hanging from the ceiling. It may fall and cause serious injury.

Placement

The TV should be installed near an easily accessible AC power outlet.

Observe the following to prevent the TV from falling from the stand or wall mount.

- ♦ Place the TV on a stable, level surface.
- ♦ Do not hang anything on the TV. Do not allow children to climb on the TV.

Do not install the TV in places subject to extreme temperature, such as in direct sunlight, near a radiator, or heating vent. If the TV is exposed to extreme temperature, the TV may overheat and cause deformation of the enclosure or cause malfunction. Do not install the TV in a place exposed to direct air conditioning. If the TV is installed in such a location, moisture may condense inside and may cause a malfunction.

- ♦ Do not place the TV in hot, oily, humid or excessively dusty places.
- ♦ Do not install the TV where insects may enter.
- ♦ Do not install the TV where it may be exposed to mechanical vibration.
- ♦ Do not install the TV in a location where it may spear up, such as on or behind a pillar, or where you might bump your head on it. It may cause injury.

Preventing the TV from toppling over

To prevent the TV from toppling over, secure the TV to a wall or stand.

Placement for watching

We suggest you to watch the TV at a distance of 3-7 times that of the screen height, and not in excessive brightness. It is easy to cause eye fatigue if you watch TV for too long or in a dark room. To obtain clear picture, do not expose the screen to direct illumination or sunlight. Use spot lighting directed down from the ceiling if you can.

Use in outdoor

This TV is not designed for outdoors installation. Do not expose the TV to rain, as it may result in a fire or an electric shock. Also, do not expose the TV to direct sunlight, as it may heat up and become damaged.



Vehicle, ships and other vessels

Do not install this TV in a vehicle. Car accidents may cause the TV to fall down and cause injury.

Do not install this TV in a ship or vessel. If the TV is exposed to seawater, it may cause a fire or damage the TV.



Medical institutions

Do not place this TV in a place where medical equipment is in use.

It may cause the medical equipment to malfunction.

VOLUME ADJUSTMENT

- ♦ Adjust the volume to avoid disturbing your neighbors. Sound carries easily at night. Therefore, we suggest you close the windows or use headphones.
- ♦ When using headphones, adjust the volume to appropriate levels, or hearing damage may result.

LCD SCREEN

- ♦ Although the LCD screen is made with highprecision technology and has effective pixels of 99.99% or more, black dots or bright points or light (red, blue, or green) may appear constantly on the LCD screen. This is a structural property of the LCD panel and is not a malfunction.
- ♦ The LCD screen is made with high-precision technology. To achieve a high level of performance and picture quality, this TV's backlight setting is set to maximize the brightness of the TV. However, uneven brightness may be observed when the LCD TV is viewed in a dark environment without an input source or a blank screen. This is a normal condition, not a malfunction of the TV. To improve this condition, change the Picture mode, Backlight setting, enable the Light Sensor, or turn on the Power management.
- ♦ Avoid exposing the LCD screen surface to direct sunlight. It is likely to damage the LCD panel.
- On not push or scratch the LCD screen, or place objects on top of the TV. The image may be uneven or the LCD panel may be damaged.
- ♦ If the TV is used in a cold place, a smear may occur in the picture or the picture may become dark. This does not indicate a failure. These phenomena improve as the temperature rises.
- ♦ When still pictures are displayed continuously, ghosting may occur. It should disappear after a short period of time.
- ♦ The screen and cabinet get warm when the TV is in use. This is a normal condition.
- ♦ Spraying insect repellent with volatile material on the screen will cause damage.
- ♦ Do not make prolonged contact with rubber or plastic material.

Broken pieces

Do not throw anything at the TV. Doing so may break the screen glass and cause serious injury.



If the surface of the TV cracks, unplug the AC power cord before touching the TV. Otherwise electric shock may result.

Handling of broken glass and liquid crystal leakage

If the LCD panel gets damaged, crystalline liquid leakage may occur, or scattered broken glass may result. Do not touch broken glass or crystalline liquid which is toxic, with bare hands as cuts, poisoning or skin irritation may occur. Also do not glass fragments or leaked crystalline liquid get into your eyes or mouth. Should either contacted your eyes or mouth, rinse the contacted area thoroughly with water and consult your doctor.

SERVICING

Do not attempt to repair the TV yourself, since opening the cabinet may expose you to dangerous



voltage or other hazards. Ask qualified service personnel to do the servicing for your TV.

Replacement parts

When replacement parts are required, be sure the service technician certifies in writing that he/she has used replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may cause a fire, an electric shock or other hazards.

Safety check

Upon completion of repairs to the TV, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the TV is safe for operating, and to so certify. Ask a qualified service technician to dispose of the TV.

For Customers in the United States

There is mercury in the lamp of this product. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (http://www.eiae.org).

Compliance Information

FCC Statement

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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.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Following information is only for EU-member states:

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE).



The mark indicates the requirement NOT to dispose the equipment as unsorted municipal waste, but use the return and collection systems according to local law.

Declaration of RoHS Compliance

This product has been designed and manufactured in compliance with Directive 2002/95/EC of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

| Substance | Proposed Maximum Concentration | Actual Concentration |
|---|-----------------------------------|----------------------|
| Lead (Pb) | 0.1% | < 0.1% |
| Mercury (Hg) | 0.1% | < 0.1% |
| Cadmium (Cd) | 0.01% | < 0.01% |
| Hexavalent Chromium (Cr ⁶⁺) | 0.1% | < 0.1% |
| Polybrominated biphenyls (PBB) | 0.1% | < 0.1% |
| Polybrominated diphenyl ethers (PBDE) | 0.1% | < 0.1% |

Certain components of products as stated above are exempted under the Annex of the RoHS Directives as noted below:

Examples of exempted components are:

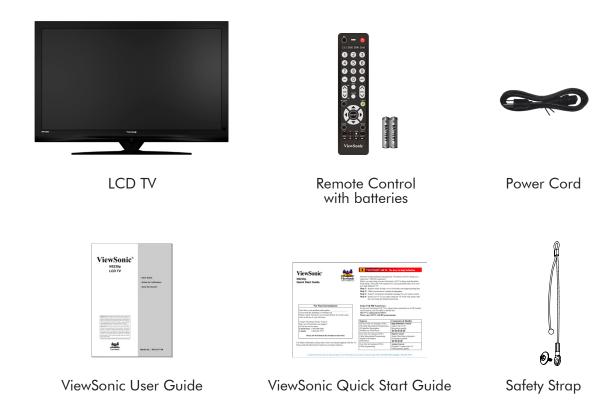
- 1. Mercury in compact fluorescent lamps not exceeding 5 mg per lamp and in other lamps not specifically mentioned in the Annex of RoHS Directive.
- 2. Lead in glass of cathode ray tubes, electronic components, fluorescent tubes, and electronic ceramic parts (e.g. piezoelectronic devices).
- 3. Lead in high temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
- 4. Lead as an allotting element in steel containing up to 0.35% lead by weight, aluminium containing up to 0.4% lead by weight and as a cooper alloy containing up to 4% lead by weight.

List of Features

- 1. Enjoy HDTV with 1920x1080 native image resolution.
- 2. ClearPicture™ technology for high contrast and realistic video.
- 3. Super-bright, high-contrast LCD HDTV flat screen.
- 4. HDMI input compatible with the latest HD devices.
- 5. Built-in digital tuners (HDTV, NTSC and Clear QAM-digital cable)
- 6. Displays multiple TV formats including 480i, 480p, 720p, 1080i and 1080p.
- 7. Multiple video/computer inputs: HDMI (3x), component video (2x), S-video, composite video, PC.
- 8. Powerful 30W (2x15W) Dolby® Digital audio system ideal for home theater.

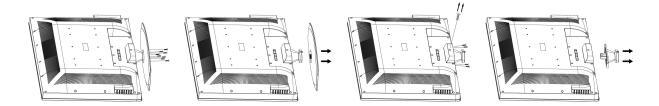
Package Contents

Please make sure the following items are included with your LCD TV. If any items are missing, please contact your dealer.



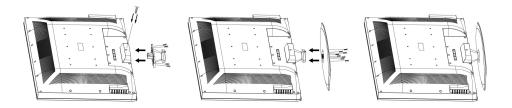
Installing the LCD TV

Disconnecting the Stand Base



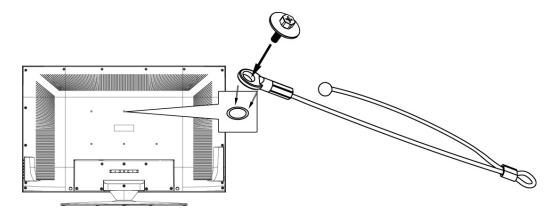
- 1. Place the TV face down on a soft cloth or cushion on a table.
- 2. Remove the base. It is attached to the stand with 8 screws.
- 3. Remove the 5 screws holding the stand to the hinge.
- 4. Remove the stand.

Installing the Stand Base



- 1. Place the TV face down on a soft cloth or cushion on a table.
- 2. Connect the stand with the hinge at the back of TV with 5 screws.
- 3. Attach the base to the stand with 8 screws.

Using the Safety Strap to Secure the TV



- 1. Use the screw to attach the safety strap to the back-side screw hole of TV.
- 2. Secure the safety strap to the wall.

Mounting ViewSonic LCD TV to the wall

The LCD TV can be used in a free standing position or wall-mounted. Before installing the product to the wall, please consider the following guidelines:

- Read the Important Safety Instructions, at the start of this manual.
- Do <u>not</u> install in a moist or wet environment. This equipment is intended for <u>indoor use</u>.
- Do <u>not</u> install near heat source, or strong magnetic fields.
- Use only <u>ViewSonic approved</u> wall-mounting brackets to support the LCD TV weight.
- Before attaching the wall mount plate to the back cover, ensure the product is working.
- If your LCD TV is already set up for free-standing operation, you need to first remove the stand before mounting the device to the wall.

To attach the wall-mount bracket to LCD TV safely, please use the following guidelines:

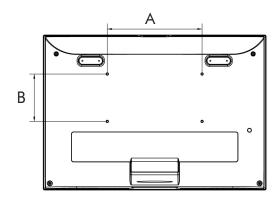
- Disconnect the power and any other cables that might hinder moving the LCD TV.
- Set the LCD TV on a table or work surface, placing the screen face down on a towel or woolen blanket to protect the screen surface from damage while installing plate.
- Before installing the LCD TV on the wall, ensure you have recorded the product serial number on page (i) of the User Guide, as you will need the serial number to request service should there be a service need.
- Install the wall mount plate to the LCD TV using screws NO LONGER than 10mm, as longer screws found in universal (non-ViewSonic) wall mount kits may damage the power supply causing the unit to fail. The wall-mount screw type is M6 x L10.

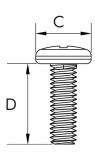


- Mount the wall mount bracket to the wall ensuring use of proper screws to support the installation. Ensure there is at least 3cm of space surrounding any air-vents of your LCD TV to allow adequate cooling during operation.
- Hang the LCD TV wall mount plate to the wall mount bracket, completing installation. Enjoy your ViewSonic LCD TV!

Wall Mount Kit Specifications (VESA)

When attaching to other building materials, please contact your nearesr dealer.





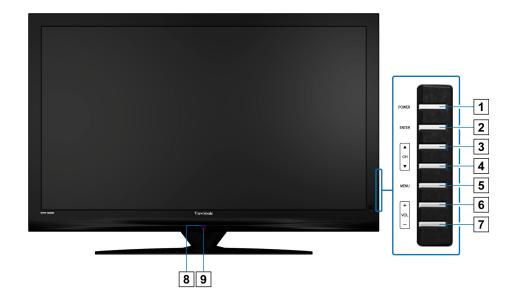
| Product Family | Inch | VESA Spec. (A x B) | Standard Screw (C xD) | Quantity |
|-----------------------|---------|--------------------|-----------------------|----------|
| | 19 ~ 22 | 100 x 100 mm | M4 x L10 | 4 |
| | 26 ~ 27 | 200 x 100 mm | M4 x L10 | 6 |
| LCD TV | 32 ~ 37 | 400 x 200 mm | M6 x L10 | 6 |
| | 42 ~ 47 | 600 x 200 mm | M6 x L10 | 10 |
| | 52 | 400 x 200 mm | M6 x L10 | 6 |

- ViewSonic provides the standard dimensions for wall mount kits as shown in the table above
- When purchasing our wall mount kit, a detailed install manual and all parts necessary for assembly are provided.
- Do not use the screws that longer than the standard dimension, as they may cause damage to the inside of the TV set.

↑ Caution

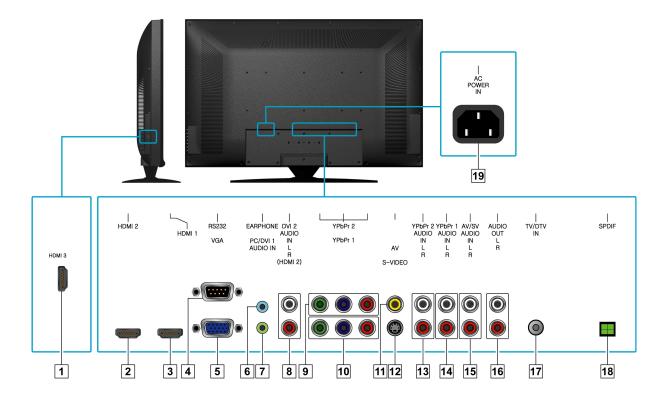
To find the perfect mount for N5230p, please browse <u>www.viewsonic.com</u> or call our service team: United States 1-800-688-6688, Canada 1-866-463-4775.

Front View of the Product



| Iten | n | Description |
|------|-------------------------|--|
| 1 | Power ON/OFF button | Turn the power on from standby mode or turn the power off to return to the standby mode. |
| 2 | ENTER | Display Input source selection menu, enter a menu or enable the function while in OSD menu. |
| 3 | CH Up | Channel up when source is TV, or select a control while in OSD menu. |
| 4 | CH Down | Channel down when source is TV, or select a control while in OSD menu. |
| 5 | MENU | Turn OSD menu ON/OFF. |
| 6 | Volume Up | Increase sound volume or adjust a highlighted control while in OSD menu. |
| 7 | Volume Down | Decrease sound volume or adjust a highlighted control while in OSD menu. |
| 8 | Power LED Indicator | Lights up in blue when the TV is turned on. Lights up in amber when the TV is in standby mode. |
| 9 | Remote Control Receiver | Receives IR signals from the remote control. |

Rear View of the Product



| Item | | Description |
|------|--|---|
| 1 | HDMI 3 Input Terminal | Connect this port to the HDMI output of A/V device. |
| 2 | HDMI 2 Input Terminal | Connect this port to the HDMI output of A/V device. |
| 3 | HDMI 1 Input Terminal | Connect this port to the HDMI output of A/V device. |
| 4 | RS232 signal input | This port is for the service technician's use. |
| 5 | VGA signal input | Connect a 15-pin D-sub RGB cable to the RGB output of your computer and the other end to the RGB input on the rear of the LCD TV. |
| 6 | Headphone Jack | Connect to your headphones. By connecting the headphones, you can listen to the sound from the TV on headphones. * If you connect the headphones, the TV speakers will be muted. |
| 7 | PC/ DVI 1 Audio input | Connect this port to PC line out jack. Or connect this port to the RCA audio output connectors of your A/V device. |
| 8 | DVI 2/ HDMI 2 signal Audio input (left/right) | Connect this port to the RCA audio output connectors of your A/V device. |
| 9 | YPbPr 2 signal input | Connect this port to the YPbPr output of A/V device. |
| 10 | YPbPr 1 signal input | Connect this port to the YPbPr output of A/V device. |

| Iter | n | Description |
|------|---|---|
| 11 | Composite Video input | Connect this jack to the composite video output connectors on your A/V equipment. |
| 12 | S-Video input | Connect the S-Video cable from the compatible device to this connector on the rear panel of the LCD TV. |
| 13 | YPbPr 2 signal Audio input (left/right) | Connect this port to the RCA audio output connectors of your A/V device. |
| 14 | YPbPr 1 signal Audio input (left/right) | Connect this port to the RCA audio output connectors of your A/V device. |
| 15 | AV/ S-Video signal Audio input (left/right) | Connect the audio cable for AV or S-Video to this connector. |
| 16 | Audio output | Connect this port to your A/V device with audio in (RCA) connectors or to audio amplifier. |
| 17 | TV/DTV input jack | Connect the coaxial (RF) connector from Antenna/ Cable/ Digital cable. |
| 18 | SPDIF Optical output | Connect this port to the SPDIF input of A/V device. |
| 19 | Power (AC input) | Plug-in the supplied AC Power cord and connect to the AC input power source. |

AV connection

Connect the composite video and audio input jacks to the corresponding output jacks of your A/V device.

- --- VIDEO: Composite Video input [11]
- --- AUDIO: AV/ S-Video signal Audio input [15]

S-Video connection

Connect the S-Video and audio input jacks to the corresponding output jacks of your VCR or other video device that has S-Video. S-Video provides better picture quality than composite video connection. If both are connected, S-Video signal has priority.

- --- VIDEO: S-Video input [12]
- --- AUDIO: AV/ S-Video signal Audio input [15]

Component (YPbPr) connection

YPbPr provides better picture quality than the S-Video or the AV connection.

- * For YPbPr connection, connect the component video (YPbPr) and audio jacks to the corresponding output jacks of your A/V device.
- --- VIDEO: YPbPr 1 signal input [10]
- --- AUDIO: YPbPr 1 signal Audio input [14]

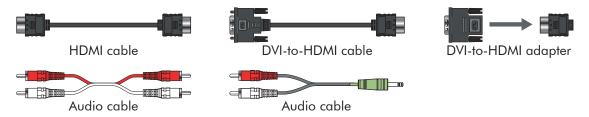
or

- --- VIDEO: YPbPr 2 signal input [9]
- --- AUDIO: YPbPr 2 signal Audio input [13]

HDMI connection

HDMI (High-Definition Multimedia Interface) is a licensable audio/video connector interface for transmitting uncompressed, encrypted digital streams between this TV and any HDMI-equipped audio/video equipment.

- *Be sure to use only an HDMI cable that bears the HDMI logo.
- * If the equipment has a DVI jack and not an HDMI jack, connect the DVI jack to the HDMI Input Terminal (with DVI-to-HDMI cable or adapter), and connect the Audio cable to the Audio In jacks.



- 1. With HDMI cable: HDMI 1 Input Terminal [3], HDMI 2 Input Terminal [2] or HDMI 3 Input Terminal [1]
- 2. With HDMI-DVI cable:
 - --- VIDEO: HDMI 1 Input Terminal [3]
 - --- AUDIO: PC/ DVI 1 Audio input [7]

or

- --- VIDEO: HDMI 2 Input Terminal [2]
- --- AUDIO: DVI 2/ HDMI 2 signal Audio input [8]

Computer connection

Connect the VGA cable and Audio cable from the VGA signal input and PC Audio input to the corresponding ports on your A/V device.

- --- VIDEO: VGA signal input [5]
- --- AUDIO: PC/ DVI 1 Audio input [7]

Connecting the LCD TV

Cable System or VHF/UHF Antenna System

Enjoy the high-definition and standard-definition digital programming along with standard-definition analog programming.

#

- This TV is capable of receiving unscrambled digital programming for both cable and external VHF/UHF antenna.
- We strongly recommend that you connect the antenna/cable input using a 75-ohm coaxial cable (not supplied) to ensure the best picture quality.

Cable or VHF/UHF



Cable System and VHF/UHF Antenna System

Use an optional A-B RF switch (not supplied) to switch between the cable and antenna programming, as shown below.



#

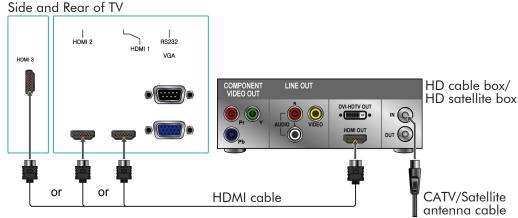
• Remember to set the **Tuner Mode** setting in the **TV** menu to **Air** or **Cable** for the type you choose.

HD Cable Box/HD Satellite Box

You can also enjoy high-definition programming by subscribing to a high-definition cable service or a high-definition satellite service. For the optimum picture quality, be sure to connect this device to your TV via the HDMI or component video (with audio) input on the back of your LCD TV.

HDMI Connection

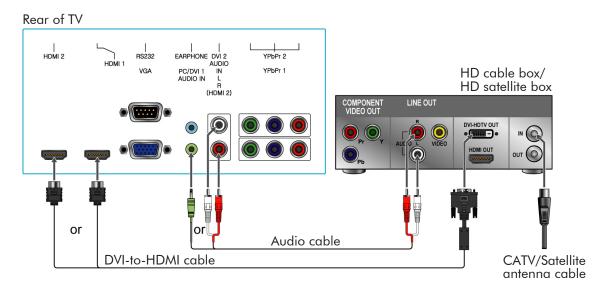
This connection can only be made if there is there is a HDMI Output connector on the external device.



Contact ViewSonic service team at: http://www.ViewSonic.com or call our service team: United States 1-800-688-6688, Canada 1-866-463-4775

DVI Connection

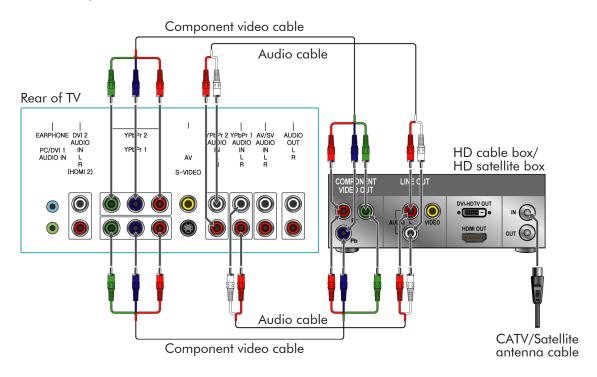
This connection can only be made if there is there is a DVI Output connector on the external device.



#

• If the equipment has a DVI jack and not an HDMI jack, connect the DVI jack to the HDMI 1 [3] or HDMI 2 [2] jack and connect the audio jack to the AUDIO In jacks of PC/DVI 1 [7] or DVI 2 [8].

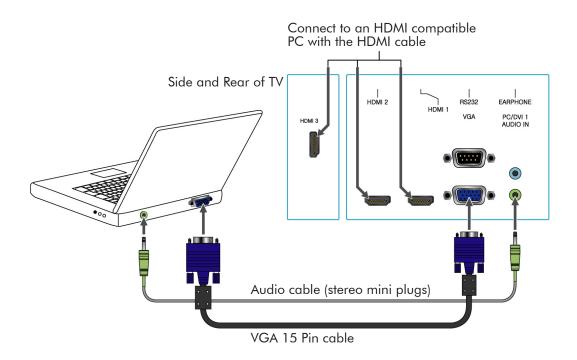
YPbPr or Component Connection



Personal Computer

Use the LCD TV as the monitor of your computer.

The picture below shows the connection for PC. The LCD TV can also be connected to PC with DVI or HDMI output.





- Connect the PC IN jack to the PC using a 15-pin cable and audio cable.
- If the PC is connected to TV and no signal has been input from PC for more than 5 seconds, the TV will enter standby mode automatically.

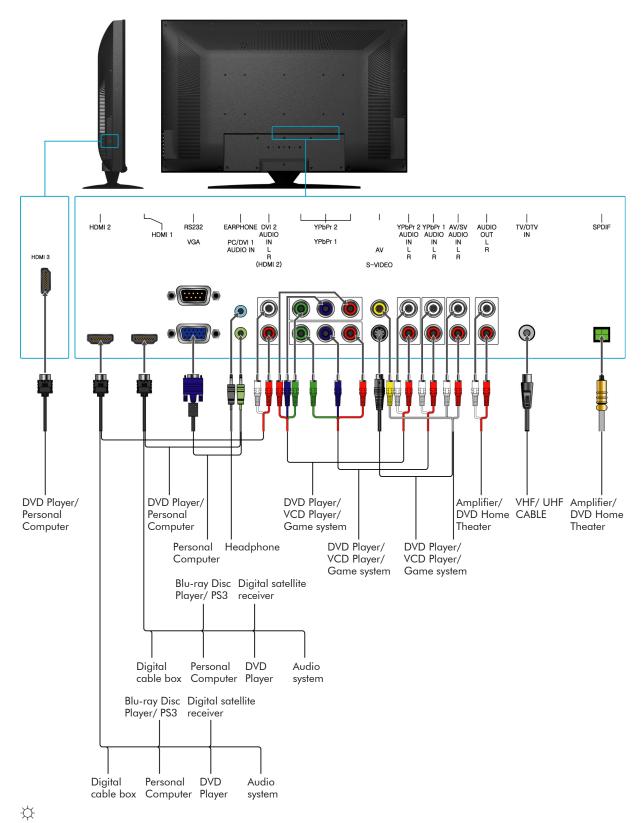
PC Timing Reference Chart

| | Mode | Aspect Ratio Handling | Compatible Input |
|----------|--------------------|--------------------------|------------------|
| Standard | Resolution | FS*Full-Screen | RGB |
| DOS | 720 x 400 @ 70Hz | 1920 x 1080 | Yes |
| VESA | 640 x 480 @ 60Hz | 1920 x 1080 | Yes |
| VESA | 640 x 480 @ 75Hz | 1920 x 1080 | Yes |
| VESA | 800 x 600 @ 60Hz | 1920 x 1080 | Yes |
| VESA | 800 x 600 @ 75Hz | 1920 x 1080 | Yes |
| MAC | 832 x 624 @ 75Hz | 1920 x 1080 | Yes |
| VESA | 1024 x 768 @ 60Hz | 1920 x 1080 | Yes |
| VESA | 1024 x 768 @ 75Hz | 1920 x 1080 | Yes |
| VESA | 1280 x 768 @ 60Hz | 1920 x 1080 | Yes |
| VESA | 1280 x 1024 @ 60Hz | 1920 x 1080 | Yes |
| VESA | 1360 x 768 @ 60Hz | 1920 x 1080 | Yes |
| VESA | 1440 x 900 @ 60Hz | 1920 x 1080 | Yes |
| VESA | 1680 x 1050 @ 60Hz | 1920 x 1080 | Yes |



- This TV's PC VGA input does not support interlaced signals.
- For the best picture quality, we recommend that you use the signals (boldfaced) in the above chart with a 60 Hz vertical frequency from a personal computer.

Other Equipment



• Please refer to the Quick Start Guide (supplied) when connecting the other equipment to your LCD TV.

Contact ViewSonic service team at: http://www.ViewSonic.com or call our service team: United States 1-800-688-6688, Canada 1-866-463-4775

Remote Control and TV Controls

Inserting Remote Control Batteries

- 1. Remove the battery cover by pulling then lifting the knob on the cover.
- 2. Insert the batteries, corresponding to the (+) and (-) markings on the battery compartment.
- 3. Reattach the battery cover.

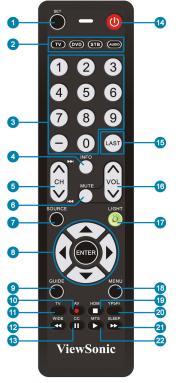


↑ CAUTION

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

Remote Control and TV Controls

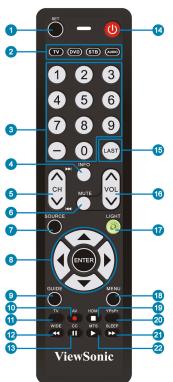
Buttons located at the side of the LCD TV will operate the same as these buttons on the remote control.





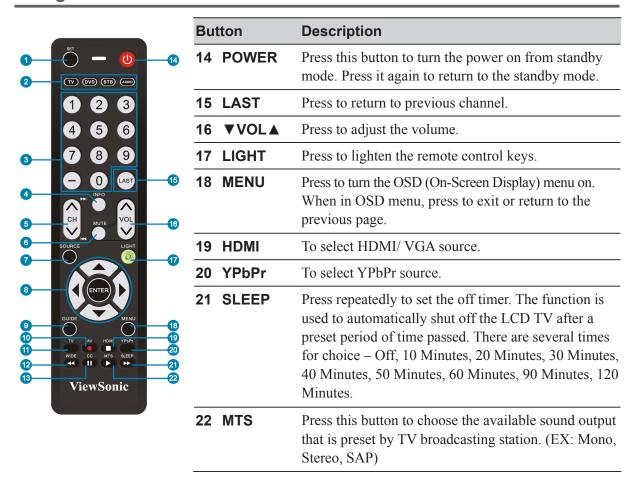
| Button | | Description |
|--------|-----------------------------|--|
| 1 | SET | Used for programming the remote control for other equipment. |
| 2 | Device buttons | Used for programming the remote control for other equipment. |
| 3 | 0~9, - number buttons | Press 0 ~ 9 and "-" to select a channel. After you input the channel numbers, press ENTER button to direct to the channel immediately, or wait for 3 seconds to change automatically. |

Contact ViewSonic service team at: http://www.ViewSonic.com or call our service team: United States 1-800-688-6688, Canada 1-866-463-4775



| - | illes | | | | |
|---|--------|----------------------------|--|--|--|
| | Button | | Description | | |
| | 4 | INFO | Press this button to display the current state of the LCD TV. | | |
| | 5 | ▼CH▲ | Press to change the channels up or down. | | |
| | 6 | MUTE | Press to turn off the sound. To restore the sound, press this button again, or press the VOL ▲ button. | | |
| | | SOURCE | Press to display the INPUT source list and select the source with ▲/▼ buttons. To confirm the selection, press ENTER. | | |
| | 8 | ▲▼◀► / ENTER buttons | Press these buttons to navigate the OSD menus. ▲/▼ is for menu and function select, and ◀/▶ is for function adjustment. ENTER: Enter the function setting. | | |
| | 9 | GUIDE | Press to display the Electronic Program Guide (EPG). It contains the program information for the channel you're watching. Tuesday, 6-March-2007 20-16-39 PM 20 1 21 22 (Program title.) * The picture here shows an example of the GUIDE screen in a DTV source. | | |

| 10 | AV | To select AV/ S-Video source. |
|----|------|---|
| 11 | TV | To select TV source. |
| 12 | WIDE | Press this button to select image size of screen between Full, Letterbox, Zoom, Panorama, No scale, Normal. |
| 13 | CC | Press to display captions during closed caption source/select closed caption mode. |



Programming the Remote Control for Other Equipment

Follow the steps below to program your TV's remote control.

1. In the space provided below, write down the three-digit code of your equipment found on the Manufacturer's Codes List on page 26~33.

| If more than | one | code i | is listed | , try | entering | the | code | listed | first. |
|--------------|-----|--------|-----------|-------|----------|-----|------|--------|--------|
| Code No. | | | | - | | | | | |

- 2. Press and hold "SET" button, and simultaneously press the device button to be set, like "DVD", "STB", or "AUDIO".
- 3. Now the LED is on. Release all buttons you pressed.
- 4. Enter the three-digit code serially using "0"-"9" buttons. If you want to escape from set mode, please press device button. (If the code is not entered within 10 seconds, you must repeat step #2.)
- 5. After three-digit code is pressed, LED is off if the code is correct. If the code does no exist, LED will flash twice and return to set mode, please go back to step #4.
- 6. Complete programming.

Code List

| TV | |
|-----------------------|--|
| A-mark | 002 |
| Abex | 012 |
| Admiral | 003,004,015,024,039,131 |
| Advent | 051 |
| Adventura | 014,093,169 |
| Aiko | 021,023 |
| Aiwa | 158 |
| Akai | 006,011,157 |
| Akawa | 039,046,162 |
| Akio | 023,050 |
| Akishi | 157 |
| Alaron | 039 |
| Allegro | 024,057,058 |
| Amark | 021,160,177 |
| Ambassador | 037 |
| Ampro | 004 |
| Anam | 002,016,019,040,045,160 |
| Anam National | 019 |
| Antram | 145 |
| AOC | 002,006,011,041,099 |
| Apex Digital | 031,171 |
| Archer | 002 |
| Audiovox | 002,023,031,040,050,055,168 |
| Auditron | 170 |
| Aumark | 021 |
| Baysonic | 040 |
| Belcor | 006 |
| Bell & Howell | 003,030,117 |
| Beuamark Bluepoint | 021,046 |
| Bradford | 040 |
| Diadioid | 002,003,016,044,050,051,098,160,161 |
| Broksonic | 162,172 |
| Brokwood | 006 |
| Candle | 006,011,014,020,042,178 |
| Carnivale | 006,011 |
| Carver | 018,051 |
| CCE | 083 |
| Celebrity | 061 |
| Celera | 155 |
| Centurion | 006 |
| Century | 013,023 |
| ChangHong | 155 |
| Cineral | 023,050 |
| Citizen | 003,006,011,013,014,020,021,023,042 |
| Citizett | 046 |
| Clairtone | 041 |
| Colombia | 051 |
| Concerto | 006,020 |
| Contec | 032,040,041,067 |
| Contec/Cony | 072,132 |
| Coronado | 013,177 |
| Craig | 040 |
| Crosley | 018,051 |
| Crown | 013,040,162,177 |
| CXC | 040 |
| Oti- M-4 | 003,006,011,013,018,020,021,024,027 |
| Curtis Mathes | 030,035,050,051,052,059,060,067,117 |
| | 133,157 |
| Daewoo | 002,006,013,023,050,055,056,090,097 101,104,106,112,113,184 |
| Daytron | 006,013 |
| Daytron Delux | 168 |
| Denon | 027 |
| DOTION | 021 |

| Dumont | 004,006 |
|------------------|-------------------------------------|
| Dwin | 024,057,058 |
| Dynatech | 083,111 |
| Electroband | 041,061 |
| Electrohome | 013,029,048,067,123 |
| Electrolight | 019.185 |
| Liectiongrit | 003,006.013.021,023.046.050.064.149 |
| Elektra | 184 |
| Eltec | 164 |
| LiteC | 006,013,030,037,038,039,040,041,044 |
| | 045,046,047,050,051,055,056,062,067 |
| Emerson | 075,076,084,087,095,113,116,118,119 |
| Lillerson | 120,129,132,134,135,136,137,143,149 |
| | 151,152,159,163,167,168,181 |
| Envision | 006,011 |
| Fisher | 030,033,070 |
| Fujitsu | 039,175 |
| Funai | 036,039,040 |
| Futuretech | 040 |
| ruturetech | |
| GE | 004,006,008,010,016,019,024,047,050 |
| Cibrolton | 059,060,066,117,160,123,142,157 |
| Gibralter | 004,006 |
| Goldstar | 001,002,006,011,013,020,039,064,067 |
| Coldtoxt | 093,099,132 |
| Goldtext | 018 |
| Gotech | 018 |
| Go Video | 021,157 |
| Gradiente | 006,017,020 |
| Grunpy | 039,040 |
| Hallmark | 006 |
| Hanstai | 169 |
| Harman | 018 |
| Harman/Kardon | 018,051 |
| Harley Davidson | 039 |
| Harvard | 040 |
| Havermy | 024 |
| Hello Kitty | 050 |
| Himitsu | 047,181 |
| | 003,006,012,013,020,027,030,062,063 |
| Hitachi | 067,072,077,088,092,105,130,132,138 |
| | 143,154 |
| Infinity | 018,051,124 |
| Insiqnia | 145 |
| Inteq | 004 |
| Janeil | 014 |
| JBL | 018,051,124 |
| JC Penny | 006,013,015,021,029,072,109,117,123 |
| | 140,155 |
| JCB | 061 |
| JEC | 039,051 |
| Jensen | 051 |
| JVC | 016,017,067,072,089,102,110,132,138 |
| Kawasho | 173 |
| KEC | 040 |
| Kenwood | 006,061 |
| Kingsei | 172 |
| Kloss | 009,014 |
| KMC | 177 |
| Konka | 174,181 |
| | 006,013,023,039,040,041,046,067,083 |
| | , |
| KTV | 177 |
| | |
| Kurazai | 177 003 168 |
| Kurazai Lexus | 003 168 |
| Kurazai | 003 |

| Loewe | 051 |
|-----------------|---|
| Logik | 003,117 |
| Luxman | 006,020 |
| LXI | 004,006,018,024,030,031,051,060,070 071,093,117,124,155 |
| Magnavox | 006,007,009,011,018,025,036,039,042 043,049,051,065,067,124, <mark>178</mark> |
| Majestic | 003,018,021,063,117 |
| Marantz | 006,011,018,029,051,124 |
| Matsui | 051,124 |
| Majustic | 003 |
| Matsushita | 045 |
| Megatron | 002,006,027, <mark>160</mark> |
| MEI | 041 |
| Memorex | 003,006,020,021,028,029,030,039,045 117 |
| Merritt | 023 |
| MGA | 006,011,013,029,123,157 |
| MGA/Mitsubishi | 006,024,029,073,123 |
| Midland | 004,012,013 |
| Mikado | 021 |
| Minutz | 008 |
| Mitsubishi | 006,024,028,038,091 |
| Mitsui | 040,149,150,167,168,181,184 |
| Montgomery Ward | 006,024,029,117,177 |
| Motorola | 019,024,131 |
| MTC | 006,011,013,020,021,041,111,169 |
| Multitech | 040,083,111 |
| Multivision | 086 |
| NAD | 006,031,035,038,071,155 |
| Naoki | 168 |
| National | 019 |
| NEC Newtech | 006,011,019,020,029,034,051,053,090 |
| Nikei | 168 |
| Nikko | 004,006,011,015,023,030,031,038,060 155 |
| Norcent | 171 |
| Noshi | 005 |
| NTC | 023 |
| Oncommand | 186 |
| Onwa | 040 |
| Optimus | 030,035,045 |
| Optonica | 024,034,131 |
| Orion | 039,044,051 |
| Packard Bell | 003,013,021,023 |
| Panablack | 045 |
| Panasonic | 001,006,015,016,017,018,019,021,024 027,028,029,030,031,034,038,045,060 074,124,149,156 |
| Panatronic | 162 |
| | 002,005,006,008,010,011,012,013,015 |
| Penney | 016,020,021,031,038,060,067 |
| Philco | 003,006,007,009,011,013,018,019,023 027,029,040,042,043,051,065,067,094 124,132,165,166,167,168,174,177,178 |
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Operation

Turning the TV On and Off

Press the **POWER** button on the remote control.

You can also use the **POWER** button on the side of the panel.



Changing Channels

1. Using Channel Buttons

Press ▼CH ▲ button to change channels, and the TV changes channels in sequence. You will see all channels that have been memorized. Channels erased or not memorized will not be shown.

2. Using Number Buttons

(1) ATV

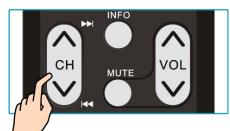
The "-" button has no function in ATV mode. Directly press the number buttons to select channels.

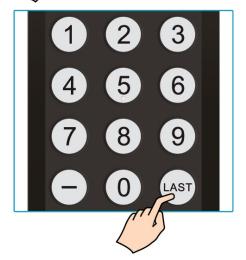
Use "-" button to select the sub channel in DTV.

Ex: Your desired number is 80-3.

Press $8 \rightarrow \text{press } 0 \rightarrow \text{press "-"} \rightarrow \text{press } 3$.

* Return to the previous channel, press LAST button.



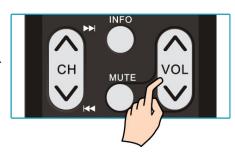


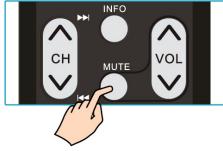
Adjusting the Volume

Press **▼VOL △** to adjust volume.

To turn off the volume, press **MUTE**.

To restore volume, press MUTE again, or press ▼VOL ▲ directly.





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Viewing the Displayed Information

To display the current information of the LCD TV: Press **INFO**, and the current state will be displayed on the screen. (It shows all or some of the information about Input, Channel, Resolution, Audio Type, etc., depending on what input source it is in)

* The picture here shows an example of the INFO screen in a DTV source.





Storing Channels into Memory

- 1. Press the **MENU** button to display the OSD main menu.
- 2. Press ▲ or ▼ to select the "TV" menu. Press ENTER or ► to enter the menu.
 - Press ▲ or ▼ to select "Tuner Mode", and use ◀ or ► to select the antenna connection to "Air" or "Cable". Air: RF signal programs by "Air".

Cable: RF signal programs by "Cable".

- 3. Press ▲ or ▼ to select "Auto Scan", then press ENTER or ► to perform Auto Scan function.

 To stop scanning, press MENU at any time.
- 4. The Auto Scan screen will be shown, and after it is done, the screen will return to the first found channel.



Viewing the Menus

- 1. Press the **MENU** button to display the OSD main menu. There are five top menus on the screen: Video, Audio, TV, Setup, Parental. When in VGA source, there is no TV menu.
- 2. Press ▲ or ▼ to select your desired top menu.
- 3. Press **ENTER** or ▶ to enter the menu you select.
- 4. Use ▲ ▼ to select the control you want to adjust.
- 5. When selecting the control with **II** ▶, press **ENTER** or ▶ to enter next level menu or to enable the function.
- 6. Press ◀ or ▶ to adjust or select the settings.
- 7. Press **MENU** to return to the previous page or exit from the OSD menu.



Selecting the Input Source

To select the TV or other external input sources connected to the TV.

- 1. Press the **INPUT** button on the remote control.
- 2. Press ▲ or ▼ to select the required input source between TV, AV, S-Video, YPbPr 1, YPbPr 2, VGA, HDMI 1, HDMI 2, or HDMI 3.
- 3. To confirm the selection, press **ENTER**.

| Main |
|---------|
| ✓ TV |
| AV |
| S-Video |
| YPbPr 1 |
| YPbPr 2 |
| VGA |
| HDMI 1 |
| HDMI 2 |
| HDMI 3 |

Adjusting the Settings

(1)

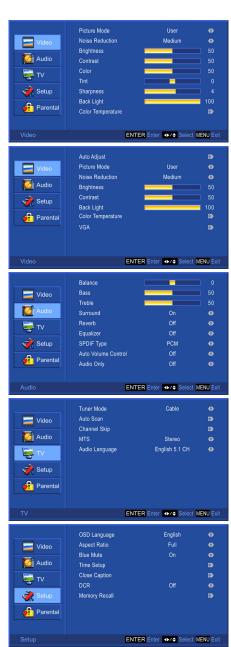
- 1. Press the **MENU** button to display the OSD main menu.
- 2. Press ▲ or ▼ to select your desired top Menu.
- 3. Press **ENTER** or ▶ to enter the menu.
- 4. Press ▲ or ▼ to select the control of "Brightness", "Contrast", "Color", "Tint", "Sharpness", "Back Light", "Balance", "Bass", "Treble", then press ◀ or ▶ to adjust the level.
- 5. Press **MENU** to exit.

(2)

- 1. Press the **MENU** button to display the OSD main menu.
- 2. Press ▲ or ▼ to select your desired top Menu.
- 3. Press **ENTER** or ▶ to enter the menu.
- 4. Press ▲ or ▼ to select the control of "Picture Mode", "Noise Reduction", "Surround", "Reverb", "Equalizer", "SPDIF Type", "Auto Volume Control", "Audio Only", "Tuner Mode", "MTS", "Audio Language", "OSD Language", "Aspect Ratio", "Blue Mute", "DCR", then press ◀ or ▶ to select your desired option.

(3)

- 1. Press the **MENU** button to display the OSD main menu.
- 2. Press ▲ or ▼ to select your desired top Menu.
- 3. Press **ENTER** or ▶ to enter the menu.
- 4. Press ▲ or ▼ to select the control with ▮ ▶, such as "Color Temperature", "Auto Adjust", "VGA", "Auto Scan", "Channel Skip", "Time Setup", "Close Caption", "Memory Recall", then press ENTER or ▶ to perform the function or enter detailed settings.



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Setting up Time menu

- 1. Press the MENU button to display the OSD main menu.
- 2. Press ▲ or ▼ to select the "Setup" menu.
- 3. Press **ENTER** or ▶ to enter the menu.
- 4. Press ▲ or ▼ to select "Time Setup", then press ENTER to enter the setting.
- 5. Select the "Time Zone" of your area with ◀ or ▶.
- 6. Press ▲ or ▼ to select "Time", then press **ENTER** to enter the setting.

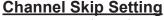
To enable Auto Synchronization, press ◀ or ▶ on Auto Synchronization and select "On". The date and time will be automatically synchronized according to the program content. Select "Off" if you want to adjust date and time manually, then move the cursor down to adjust with number keys.

To set power-on and power-off time, press ◀ or ▶ on Timer and select "On". Then move the cursor down to set the beginning and ending time of timer. Select "Off" if you want to cancel the timer function.

Note: Auto Synchronization should be set to "Off" before "Timer" is enabled.

7. Press **MENU** to return to the previous menu. Select Sleep Timer to set the off timer, and the TV will shut down automatically after the preset time. Set the Auto Sleep function, and the TV will shut down if it has not been operated for the preset time. Also, you can turn

8. Press **MENU** to exit.



You can use the "Channel Skip" function to set some channels to be skipped, the skipped channels will not appear on the screen when you browse through the channels with $\blacktriangle CH \blacktriangledown$.

on the "Daylight Saving" if required.

- 1. Press the **MENU** button to display the OSD main menu.
- 2. Press ▲ or ▼ to select the "TV" menu.

 Press ENTER or ► to enter the menu.

 Press ▲ or ▼ to select "Channel Skip", then press

 ENTER button to enter "Channel Skip" setting.
- 3. Press ▲ or ▼ to select the channel you want to skip, and check or uncheck it with ENTER button.
- 4. Press **MENU** to exit.





Close Caption Setting

- 1. Press the MENU button to display the OSD main menu.
- 2. Press ▲ or ▼ to select the "Setup" menu.
 Press ENTER or ► to enter the menu.
 Press ▲ or ▼ to select "Close Caption", then press ENTER or ► to enter "Close Caption" setting.
- 3. Press ▲ or ▼ to select Analog Closed Caption or Digital Closed Caption, and use ◀ or ▶ to select caption information.

To perform custom digital caption style settings, select "Digital Caption Style" to "Custom", then use ▲ or ▼ to select desired controls, ◀ or ▶ to adjust detailed settings.

4. Press **MENU** to exit.



Using the Parent Controls

- 1. Press the MENU button to display the OSD main menu.
- 2. Press ▲ or ▼ to select the "Parental" menu.
- 3. Enter the password. (The default password is 0000, which can be changed. There is also a universal password 3660 that remains eternally valid.)

Channel Block:

- 1. Move to "Channel Block", then press **ENTER** or ▶.
- 2. Use ▲ or ▼ to select the channel you want to block, then press ENTER to block or unblock it.
- 3. Press **MENU** to exit.

Program Block:

- 1. Move to "Program Block", and press **ENTER** or ▶.
- 2. Move to "Rating Enable", and select "On" to enable the detailed settings.
- 3. Move to "U.S. TV Ratings", "U.S. Movie Ratings", "Canadian English Ratings", "Canadian French Ratings", or "Block Unrated".

(1) U.S. TV Ratings

1. Press ▲ or ▼ to select "U.S. TV Ratings", then press ENTER or ►.

The following screen will allow you to customize the following TV ratings:

Y (all children)

Y7 (older children)

G (general audience)

PG (guidance suggested)

14 (strongly cautioned)

MA (mature audience)

You can also customize the TV ratings for the following content:

A (all types of content)

D (sexsual dialog)

L (adult language)

S (sexual situations)

V (violence)

FV (fantasy violence)

- 2. Press **ENTER** to set or reset each area.
- 3. Press **MENU** to exit.



(2) U.S. Movie Ratings

1. Press ▲ or ▼ to select "U.S. Movie Ratings", then press ENTER or ▶.

The following screen will allow you to customize the following TV ratings:

G (general audience)

PG (parental guidance suggested)

PG-13 (recommended for children 14 years of age or older)

R (mature audience)

NC-17 (no one under 17 years of age)

X (adult audience only)

- 2. Press **ENTER** to set or reset the rating level.
- 3. Press **MENU** to exit.

(3) Canadian English Ratings

1. Press ▲ or ▼ to select "Canadian English Ratings", then press ENTER or ▶.

The available selection are defined as following: **C** (children)

C8+ (children eight years and older)

G (general programming, suitable for all audiences)

PG (parental guidance)

14+ (viewers and older)

18+ (adult programming)

- 2. Press **ENTER** to set or reset the rating level.
- 3. Press **MENU** to exit.

(4) Canadian French Ratings

1. Press ▲ or ▼ to select "Canadian French Ratings", then press ENTER or ►.

The available selection are defined as following: **G** (genenral)

8 ans+ (children eight years and older)

13 ans+ (not appropriate for children of less than 13 years)

16 ans+ (not appropriate for children of less than 16 years)

18 ans+ (reserved to adults)

- 2. Press **ENTER** to set or reset the rating level.
- 3. Press **MENU** to exit.







(5) Block Unrated

- 1. Press ▲ or ▼ to select "Block Unrated", then press ◀ or ► to select "On" or "Off". When "On" is selected, all programs that are not rated will be blocked.
- 2. Press **MENU** to exit.



Input Block:

- Press ▲ or ▼ to select "Input Block", then press ▲ or ▼ to select the input source from which you want to block.
- 2. Press **ENTER** to block or unblock the input source.
- 3. Press **MENU** to exit.



Change Password:

- 1. Press ▲ or ▼ to select "Change Password", then press ENTER to enter "Change Password" setting.
- 2. Enter your new password in "New Password".
- 3. Enter the new password again in "Confirm Password". After you complete the last step, the screen will return to the top page of Parent menu. If so, the password has been changed successfully.



Using VGA Function

- 1. When in VGA source, press the **MENU** button to display the OSD main menu.
- 2. Press ◀ or ▶ to select the "Video" menu.
- 3. Press ▲ or ▼ to select your desired controls, and press ◀ or ▶ to adjust.
- 4. For advanced VGA functions, select "VGA" (only enabled in VGA source) and press **ENTER** to enter VGA setting.
- 5. Press ▲ or ▼ to select "H. Position", "V. Position", "Phase", or "Clock", and adjust the level with ◀ or ▶.
- * When in VGA source, the Audio, Setup, and Parental menus are the same as or similar to when in other source. Instead that some controls are disabled.
- * When there is no signal in the VGA mode, "No signal. The power will be turned off." will be displayed on the screen, and the TV will automatically turn into power-saving mode after a few seconds' idleness. Press any key on the remote control at any time and the TV will return to VGA mode.



To Restore Factory Setting

- 1. Press the **MENU** button to display the OSD main menu.
- 2. Press ▲ or ▼ to select the "Setup" menu.
- 3. Press **ENTER** or ▶ to enter "Setup" menu.
- 4. Press ▲ or ▼ to select "Memory Recall", then press ENTER to restore the factory default setting.



Annotations for OSD Menu Items

See below for meanings of the control items in each menu.

Video menu

- Picture Mode: To select picture mode.
- **Noise Reduction:** To reduce the noise level of connected equipment.
- Brightness: To adjust luminance of video.
- Contrast: To adjust contrast of video.
- Color: To adjust color.
- Tint: To adjust tint level.
- **Sharpness:** To adjust picture sharpness.
- Back Light: To brighten or darken the backlight.
- Color Temperature: To select color temperature.
- **Auto Adjust:** To auto adjust picture's horizontal position, vertical position, fine tune and H-Size. (only enabled in VGA source)
- VGA: To fine tune the image. (only enabled in VGA source)
 - * H. Position: To adjust the horizontal position of the picture.
 - *** V. Position:** To adjust the vertical position of the picture.
 - * Phase: To adjust delay time of phase in order to reduce the noise of picture.
 - * Clock: To adjust delay time of clock in order to reduce the noise of picture.

Video

Audio menu

- Balance: To adjust left and right audio balance.
- Bass: To adjust bass.
- Treble: To adjust the treble.
- Surround: To select concert hall effect "On" or "Off".
- **Reverb:** To select the reverb sound effect.
- Equalizer: To select equalizer modes.
- SPDIF Type: To select audio for SPDIF out.
- **Auto Volume control:** To turn On or Off Auto volume control.
- Audio Only: To turn off the screen picture but keep the sound on.

TV menu

- Tuner Mode: To select TV source. Select "Cable" to watch cable TV channels, and select "Air" to watch air TV channels.
- Auto Scan: To auto scan TV and DTV channels.
- Channel Skip: To skip channels.
- MTS: To select audio mode.
- Audio Language: To select available audio language.



Setup menu

- OSD Language: To select OSD language.
- **Aspect Ratio:** To select image size between Full, Letterbox, Zoom, Panorama, No scale, and Normal.
- **Blue Mute:** To set the background color to blue when there is no signal.
- **Time Setup:** To set Time Zone, Time, Sleep Timer, Auto Sleep, and Daylight Saving.
 - * Time Zone: To select the time zone appropriate to your location.
 - * Time: To set the current time.
 - Auto Synchronization: To automatically synchronize date and time according to the program content.
 - Timer: To set power-on and power-off time.
 - * Sleep Timer: To set the off timer.
 - * Auto Sleep: To set the auto-sleep time.
- Close Caption: To set close caption options.
 - * Analog Closed Caption: To set basic analog closed caption options.
 - * **Digital Closed Caption:** To select closed caption signal formats and set up caption modes for digital TV channels.
 - * Digital Caption Style: To select caption style.
 - Font Size: To select font size.
 - Font Color: To select font color.
 - Font Opacity: To select font opacity.
 - Background Color: To select background color.
 - Background Opacity: To select background opacity.
 - Window Color: To select window color.
 - Window Opacity: To select window opacity.
- **DCR:** To turn on/off the DCR (Dynamic Contrast Ratio) function.
- Memory Recall: To restore the factory default settings.



Parental menu

- Channel Block: To block channels.
- Program Block: To set TV and Movie Ratings.
 - * Rating Enable: To enable Rating settings.
 - * U.S. TV Ratings: To set TV blocking level in the US
 - * U.S. Movie Ratings: To set movie blocking level in the US.
 - * Canadian English Ratings: To set blocking level in English-speaking region of Canada.
 - * Canadian French Ratings: To set blocking level in French-speaking region of Canada.
 - * **Block Unrated:** To block unrated movie or TV programs.
- Input Block: To set the input source to be blocked.
- Change Password: To change the password.
- Clean All: To clear all the locks set before.



Other Information

Cleaning the LCD TV

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

Troubleshooting

Please contact ViewSonic service team directly if you have questions, service needs, or require technical assistance related on the use of your television.

Contact ViewSonic Service Team at:

http://www.ViewSonic.com

Or call our service team:

United States 1-800-688-6688 Canada 1-866-463-4775

| Problem | Possible Solution |
|---|---|
| No power | Make sure the power cord is properly connected to the LCD TV AC power socket. Make sure the AC power cord is properly connected to the wall outlet. Make sure the DC power button is ON (Blue LED). Plug another electrical device (like a radio) to the power outlet to verify that the outlet is supplying the proper voltage. |
| No picture | The TV station may be experiencing problems. Try another channel. The Cable TV signal may be scrambled or encoded. Please contact your local cable operator. Make sure that connection to other components are correct referring to the user guide. Make sure that setup has been done correctly after connections. Make sure the correct input is selected and the input signal is compatible. |
| 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, contrast, saturation (color), and tint referring to the user guide. Check the input signal setting. |
| No sound | Check your audio connections are properly connected referring to the user guide. The MUTE button may have been pressed, try pressing this button again. Check your audio settings, your TV audio may be set to minimum. Press the Volume + (Up) button on the remote control. |

Other Information

| Problem | Possible Solution |
|--|---|
| Remote control unit does not operate | Make sure the directions of batteries are inserted correctly referring to the user guide. Batteries could be weak or dead. Replace with new 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 TV. Press the POWER button on the remote control to see if you can turn on the TV. Press MENU button on the remote control to see if there is a MENU shown on the screen. 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 TV 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 in advance? Is there no signal in PC mode or HDMI mode? The internal temperature of the unit has increased. Remove any objects blocking the vent or clean as necessary. |
| No CATV reception (or no reception above CH13) | Is the AIR/CABLE option set correctly? Please set the AIR/CABLE option to CABLE referring to the user guide. CATV is connected improperly or not connected; please check all the CATV connections. The cable TV service is interrupted; please contact your cable operator. |
| Picture is cut off/with sidebar screen | Is the image positioned correctly? Are screen mode adjustments such as picture size set correctly? Press WIDE button repeatedly on the remote control to see if you can get the picture you prefer. |

Specifications

| Model | | N5230p |
|----------------------|--|---|
| LCD | Туре | 52" TFT Active Matrix RGB 0.6 (H) x 0.6 (V) mm pixel |
| | Color Filter Glass surface | RGB vertical stripe Anti-Glare |
| Input signal | RGB RF Video | RGB analog (0.7/1.0 Vp-p, 75 ohms) Separate Sync, fh: 30-82 kHz, f _V :50-75 Hz TV system Antenna / NTSC+ATSC, TV cable system / CATV+Digital cable 1 composite RCA, 1 S-Video, 2 YPbPr component, 3 HDMI |
| | Audio | 1 mini-stereo, 4 pair of RCA (L/R) stereo |
| Compatibility | PC | Up to 1680 x 1050 Non-interlaced |
| Resolution | Recommended and supported (VGA mode) | 1680 x 1050 @ 60 Hz 1440 x 900 @ 60 Hz 1360 x 768 @ 60 Hz 1280 x 1024 @ 60 Hz 1280 x 768 @ 60 Hz 1024 x 768 @ 60, 75 Hz 800 x 600 @ 60, 75 Hz 640 x 480 @ 60, 75 Hz |
| Speaker Output | t | 15W x 2 @ THD=10% |
| Audio Output | | 1 stereo RCA jack, 1 SPDIF (optical), 1 Headphone jack |
| Power | Voltage | 100-240 VAC, 50/60 Hz (auto switch) |
| Display area | Full Scan | 1152mm (H) x 648mm (V) 45.35" (H) x 25.51" (V) |
| Operating conditions | Temperature Humanity Altitude | 32°F to + 104°F (0°C to + 40°C) 20% to 65% (no condensation) To 6,500 feet (2,000m) |
| Storage condition | Temperature Humanity Altitude | -4°F to + 140°F (-20°C to + 60°C) 10% to 90% (no condensation) To 40,000 feet (12,000m) |
| Dimensions | Physical (W)x(H)x(D) | 1250.8mm x 860.9mm x 310.5mm 49.2'' x 33.9'' x12.2'' |
| Weight | Net | 39.4 kg (86.9 lb) |
| Regulations | | UL/cUL, FCC-B (Doc-B), BETS-7, ENERGY STAR® |
| Power consumption | On Stand by | < 400 W (blue LED) < 1 W @ 115 Vac (orange LED) ed to GTF® 1680 x 1050 @ 60 Hz) |

Preset Timing Mode (Pre-adjusted to GTF® 1680 x 1050 @ 60 Hz)

Warning: Do not set the graphics card in your computer to exceed these refresh rates; doing so may result in permanent damage to the LCD TV.

Note: Product Specifications are subject to change without notice.

Limited Warranty

VIEWSONIC® LCD TV

What the warranty covers:

ViewSonic warrants its products to be free from defects in material and workmanship, under normal use, 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 TV are warranted for one (1) year for all parts excluding the light source and one (1) year for labor from the date of the first customer 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 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. Any product exhibiting a condition commonly known as "image burn-in" which results when a static image is displayed on the product for an extended period of time.
- 4. Removal, installation, and set-up service charges.
- 5. When you mount it on the wall, the following must be noticed:
 - a. The accessories attached with this product are applicable for this product only.
 - b. When the product is mounted on the wall, holes and fixed screws will remain in the wall body.
 - c. Wall face may discolor when this product has been mounted on the wall for a long time.

How to get service:

- 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's liability is limited to the cost of repair or replacement of the product. ViewSonic shall not be liable for:

- 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.

The warranty period for this product in mainland China (Hong Kong, Macao and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.

For users in Europe and Russia, full details of warranty providedcan be found in www.viewsoniceurope.com under Support/Warranty Information.

4.3: ViewSonic LCD TV Warranty

LTV LW01 Rev. 1C 06-25-07

Contact ViewSonic service team at: http://www.ViewSonic.com or call our service team: United States 1-800-688-6688, Canada 1-866-463-4775

