

HITACHI
Inspire the Next

32

ULTRATHIN
LED
LCDHDTV

Owners Guide
Model LE32H405
32" Class (31.51" diagonal)



Owners Guide

Thank you for purchasing this Hitachi product. Please read these instructions carefully.
For additional assistance please call 800.HITACHI (800.448.2244) or visit our website at www.hitachi.us/tv.
Keep this owners guide for future reference.

Record the model number and serial number of your LCD Television for future reference.
This information is located on the back of the television.

MODEL NUMBER _____ SERIAL NUMBER _____

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ES-J11201-A



ENGLISH



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



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

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.

CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

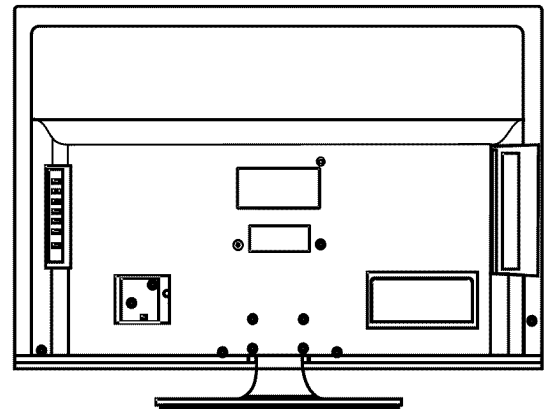
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

Location of the required Marking

The rating sheet and the safety caution are on the rear of the unit.



ENERGY STAR®

This television's factory default settings as shipped meet ENERGY STAR requirements.

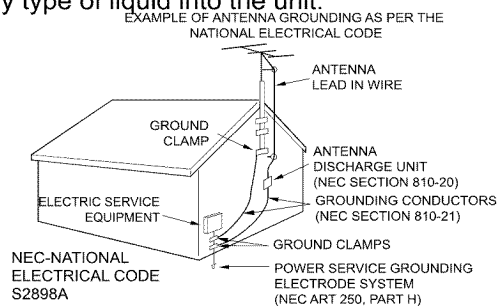
This TV has an Audio Shut Off feature that will automatically turn off the TV if there is no video signal detected within 15 minutes. Additionally this TV has LED backlighting which has greater energy saving benefits versus conventional CCFL type TV.

IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with 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 during lightning storms or when unused for long periods 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, does not operate normally, or has been dropped.
- 15) Apparatus should not be exposed to dripping or splashing, and objects filled with liquids, such as vases, should not be placed on the apparatus.
- 16) An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.
- 17) Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock.
- 18) Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.



- 19) If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect 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.



- 20) When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part.

Unauthorized substitutions may result in fire, electric shock or other hazards.

- 21) Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.
- 22) When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.
- 23) Sudden high volume sound may cause hearing or speaker damage. When you use headphones, (if the unit is equipped with a headphone jack) keep the volume at a moderate level. If you use headphones continuously with high volume sound, it may cause hearing damage.

IMPORTANT SAFETY INSTRUCTIONS (continued)

- 24) Do not allow the product to output distorted sound for an extended period of time. It may cause speaker overheating and fire.
- 25) This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.
- 26) The socket-outlet must be installed near the unit and easily accessible.
- 27) The mains plug is used as the disconnect and shall remain readily operable.

CONDENSATION

Moisture will form in the operating section of the unit if the unit is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, unit's performance will be impaired. To prevent this, let the unit stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually. Condensation may also form during the summer if the unit is exposed to the breeze from an air conditioner. In such cases, change the location of the unit.

HOW TO HANDLE THE LCD PANEL

- Do not press hard or jolt the LCD panel. It may cause the LCD panel glass to break and injury may occur.
- If the LCD panel is broken, make absolutely sure that you do not touch the liquid in the panel. This may cause skin inflammation. If the liquid gets in your mouth, immediately gargle and consult with your doctor. Also, if the liquid gets in your eyes or touches your skin, consult with your doctor after rinsing for at least 15 minutes or longer in clean water.

Possible Adverse Effects on LCD Panel: If a fixed (non-moving) pattern remains on the LCD Panel for long periods of time, the image can become permanently engraved in the LCD Panel and cause subtle but permanent ghost images. This type of damage is NOT COVERED BY YOUR WARRANTY. Never leave your LCD Panel on for long periods of time while it is displaying the following formats or images:

- Fixed Images, such as stock tickers, video game patterns, TV station logos, and websites.
- Special Formats that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (black bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (black bars on left and right sides of screen).

The following symptoms are not signs of malfunction but technical limitation. Therefore we disclaim any responsibility for these symptoms.

- LCD Panels are manufactured using an extremely high level of precision technology, however sometimes parts of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.
- Do not install the LCD Panel near electronic equipment that produces electromagnetic waves. Some equipment placed too near this unit may cause interference.
- Effect on infrared devices – There may be interference while using infrared devices such as infrared cordless headphones.

Power source

This LCD television is designed to operate on 120 volts 60 Hz, AC current. Insert the power cord into a 120 volts 60 Hz outlet. To prevent electric shock, do not use the LCD television's plug with an extension cord, receptacle, or other outlet unless the blades and ground terminal can be fully inserted to prevent blade exposure. Never connect the LCD television to 50 Hz, direct current, or anything other than the specified voltage.

Warning

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Caution

Never remove the back cover of the LCD television as this can expose you to very high voltages and other hazards. If the television does not operate properly, unplug the LCD television and call your authorized dealer or service center. Adjust only those controls that are covered in the instructions, as improper changes or modifications not expressly approved by Hitachi could void the user's warranty.

This Class B digital apparatus complies with Canadian ICES-003 as a Standard Television Receiving Apparatus, Canada BET-7/NTMR7.

Declaration of Conformity

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.

For questions regarding this declaration, contact:

Hitachi America, Ltd.
900 Hitachi Way
Chula Vista, CA 91914-3556
ATTN: Customer Relations

CHILD SAFETY:

It Makes A Difference How and Where
You Use Your Flat Panel Display

Congratulations on your purchase!

As you enjoy your new product, please keep these safety tips on mind:



HITACHI CARES!

- The consumer electronics industry is committed to making home entertainment enjoyable and safe.
- Please note the American Academy of Pediatrics discourages television viewing for children younger than two years of age.
- The home theater entertainment experience is a growing trend and larger flat displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
- Flat Panel displays that are inappropriately situated on dresser, bookcases, shelves, desks, speakers, chest or carts may fall over and cause injury.

TUNE INTO SAFETY

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

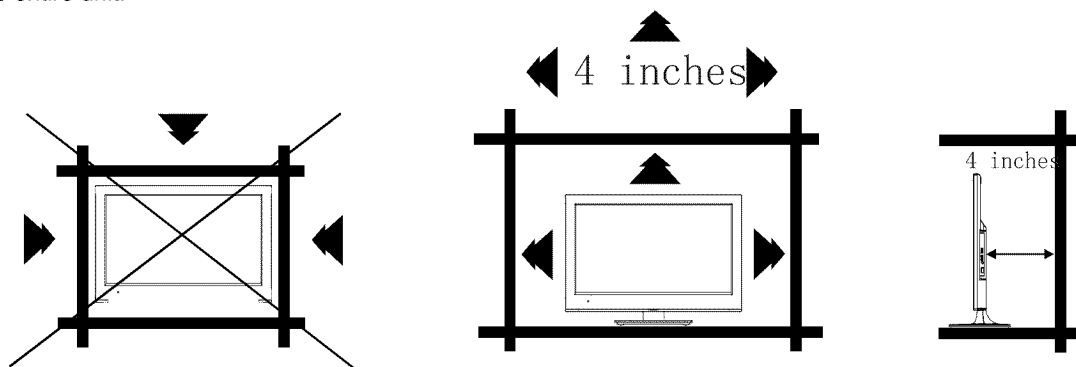
WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure that the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.



SAFETY PRECAUTIONS

The unit emits heat when in operation. Do not place any covers or blankets on the unit, this may cause overheating. Do not block ventilation holes, or set up near radiators. Do not place in direct sunlight. When placing on a shelf leave 4 inches (10 cm) free space around the entire unit.



Notes when mounting the LCD TV on a wall

If the unit is to be mounted on the wall, contact the retailer where you purchased the LCD TV for advice, and have the equipment professionally installed. Incomplete or improper installation may cause injury to you, and/or damage to the LCD TV.

The screws ISO M6 thread type should be used. The insertion length must be within 12 - 15mm.

If the insertion length is less than 12mm, the weight can not be maintained.

If the insertion length is more than 15mm, a space is created between the Wall Mount Bracket and the Television.

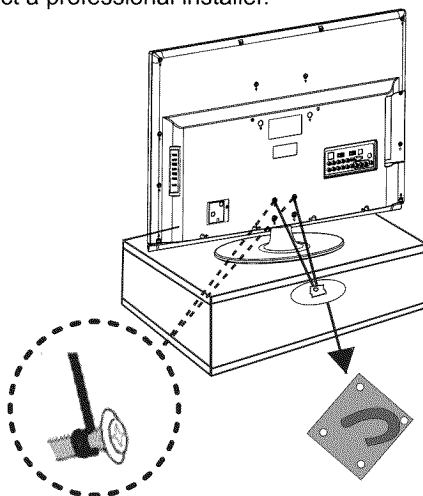
$(\text{Insertion Length}) = (\text{Screw Length}) - (\text{Washers Thickness}) - (\text{Mounting Bracket Thickness})$

Securing to a Wall

1. Attach the wall anchor the stand.
2. Tie the ropes or chains with TV pedestal screws. Ropes or chains should be secure tightly.
3. Fasten the anchor bolts into top wall-mount holes.
4. Attach the wall anchors on the wall strong enough to support the weight of the TV. (Attach to the Wall Stud).
5. Make sure to connect anchor bolts to wall anchors.

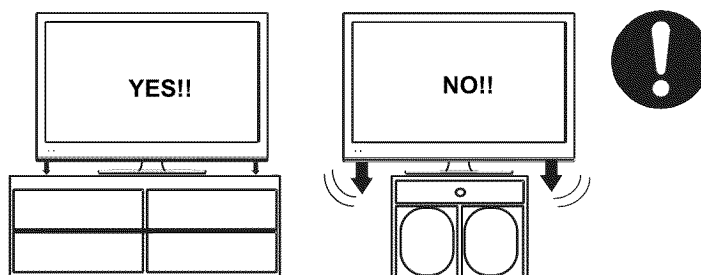
Anchor bolt - SJ2824-87 ST5×14F(Not Included/Not Supplied)

6. Check that all connections are properly secured. Periodically check for any sign of fatigue or failure. If you have any doubt about the security of your connections, contact a professional installer.



NOTICE FOR TV CABINET

If the unit is to be mounted on a cabinet smaller than length of the unit, it could result in an unstable location and the unit may tumble over, making a risk of personal, possibly fatal injury. Also, this would damage the product seriously. Accordingly, Hitachi accepts no responsibility or liability for any injuries or property damage resulting from the improper installation.

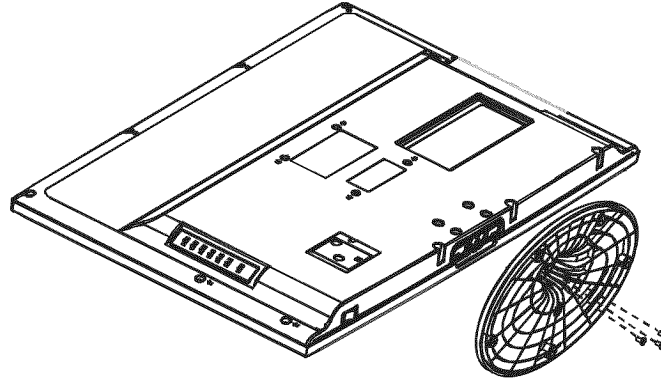


How to attach the stand

NOTES

- Unplug the AC cord from the AC INPUT terminal.
- Before beginning this process, assure that TV is laid on a clean, safe, and cushioned space to avoid any damage to the unit.
- Do not touch or press the LCD screen, the glass might break under pressure.

Place the TV on its front onto a table.
Align the stand's bottom-plate (supplied) as seen here.
It will fit in only one direction.
Hold the unit and attach the stand slowly.



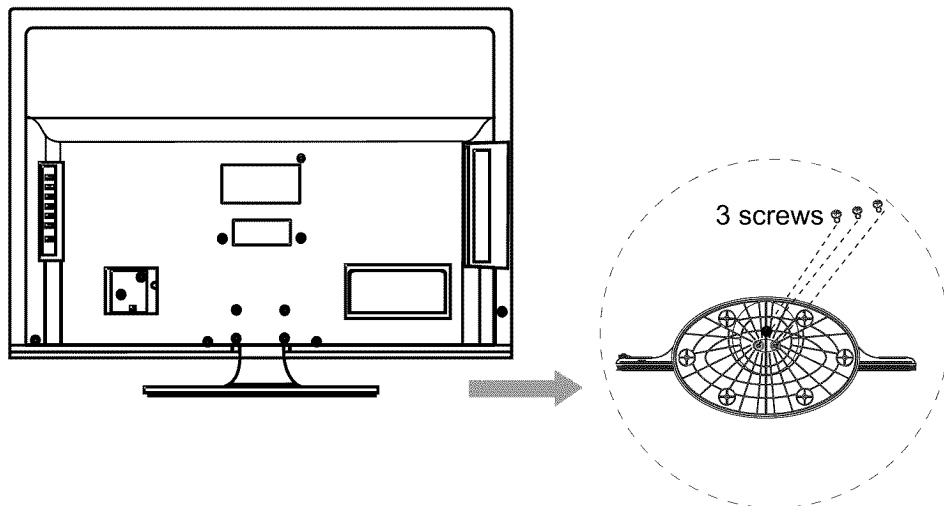
Finally secure the bottom-plate with 3 screws(SJ2824-87 ST4×16C)(supplied).

- Be sure to follow the instructions. Insufficient tightening or incorrect installation of the stand will not support your unit correctly, and could result in damage or injury from tip-over.

How to remove the stand

When you transport this product, remove the stand and pack flat against the back of the unit in the carton. To remove the stand, perform these steps in reverse order.

For wall mounting, the base must be removed. To disconnect the base/stand remove the 3 screws from the back.



Features

LCD color TV

Unique space saving design combines a 32" class LCD color TV.

- **Integrated Digital Tuner** - You can view digital broadcasts without using a Digital TV Set-Top Box.
- **Closed Caption Decoder With Full Text Mode** - Displays text captions or full screen text on the screen for hearing impaired viewers.
- **Picture Adjustments Using The Remote Control** - The On-Screen display allows precise remote control adjustment of BRIGHTNESS, CONTRAST, COLOR, TINT and SHARPNESS.
- **Programmable TV Sleep Timer** - Operable from the remote control, the TV can be programmed for up to 120 minutes to turn off automatically.
- **On-Screen 3 Language Display** - You can select one of 3 languages, English, Spanish or French for on-screen programming
- **Parental Control** - The Parental Control function can read the rating of a TV program or movie content if the program is encoded with this information. Parental Control will allow you to set a restriction level.

This LCD Television receiver will display television closed captioning, (**CC** or **□**), in accordance with paragraph 15.119 and 15.122 of the FCC rules.

* HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

* Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

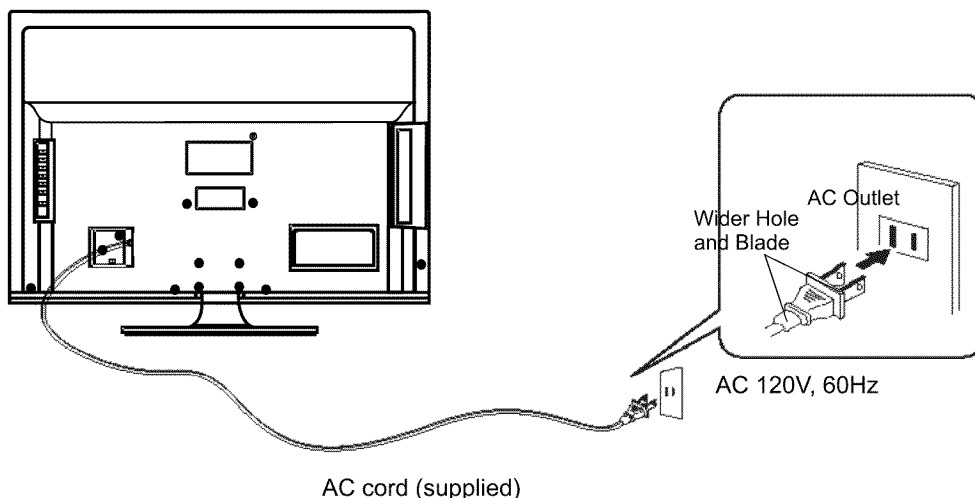
* VGA and XGA are trademarks of International Business Machines Corporation.

* VESA is a registered trademark of the Video Electronics Standard Association.

Power source

TO USE AC POWER

Connect the AC cord into an AC outlet.



NOTES

- Please make sure to insert the cord securely at both the LCD TV and to the wall outlet.
- The AC Cord has a polarized type AC line plug. If the supplied AC cord does not match your AC outlet, contact a qualified electrician.

WARNING:

- Do not connect this unit to the power using any device other than the supplied AC cord. This could cause fire, electrical shock, or damage.
- Do not use with a voltage other than the power voltage specified. This could cause fire, electrical shock, or damage.

CAUTION:

- When this unit is not used for a long time, (e.g., away on a trip) in the interest of safety, be sure to unplug it from the AC outlet.
- Do not plug/unplug the AC cord when your hands are wet. This may cause electrical shock.

Before using your unit

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TV operation

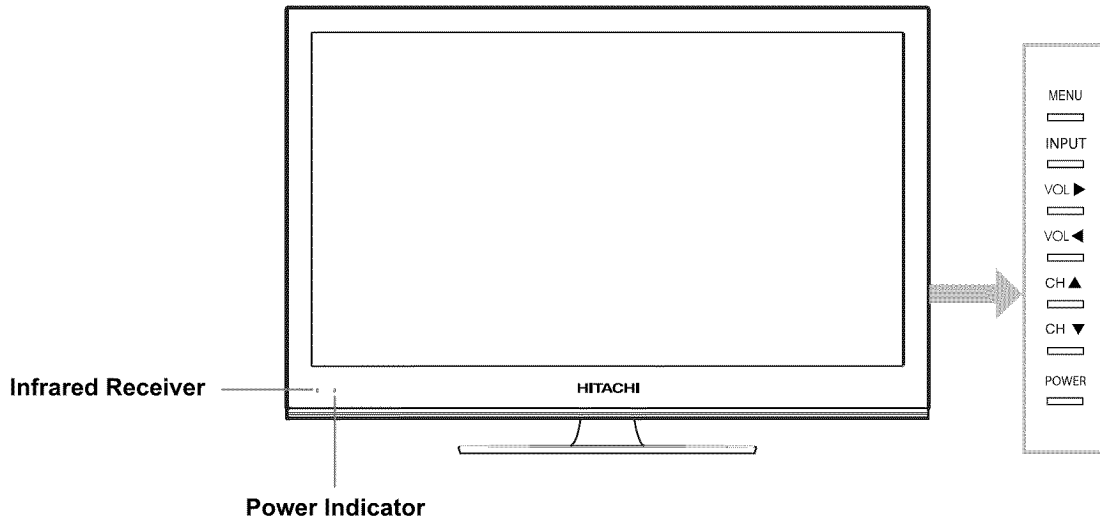
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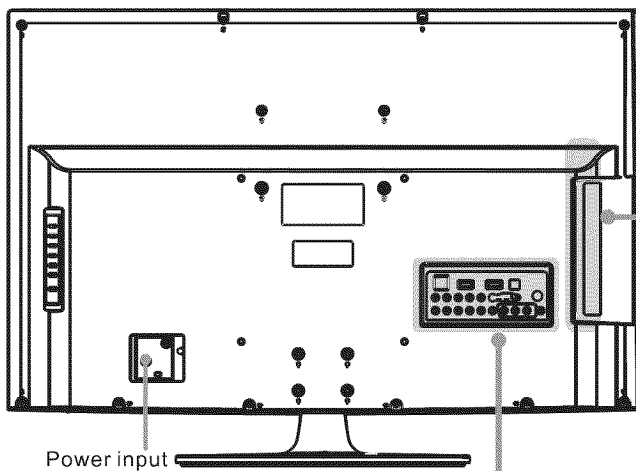
Location of controls

Front

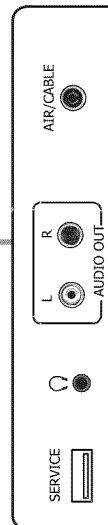


Item	Description
IR (Infrared Receiver)	Receives IR signals from the remote control. Do not put anything near the sensor, as its function may be affected.
POWER LED	Illuminates blue when the TV is in standby mode and flashes for a few seconds when you turn on/off the TV.
MENU	Displays the OSD (on screen display) menu.
INPUT	Select among the different input signal sources.
VOL ◀▶	Adjust the volume. Select sub-menu and adjust setting in OSD menus.
CH ▲▼	Select a channel. Select items of OSD menu.
POWER	Switch the TV on from standby. Switch the TV back to standby.

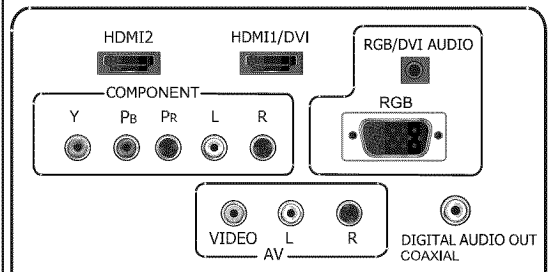
Rear

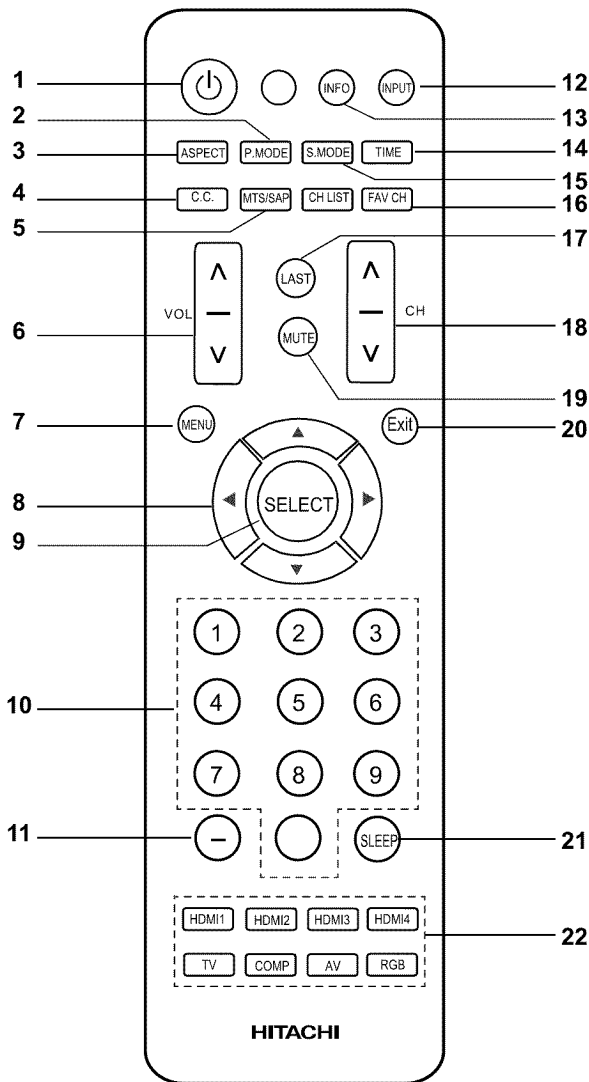


Left side



Back side



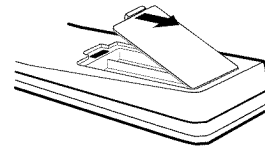


- 1. **POWER Button** - Press to turn the LCD TV's power on/off.
- 2. **P.MODE**-Picture mode selecting button.
- 3. **ASPECT Button** - Press to change the picture size.
- 4. **C.C. Button** - Used to turn on/off the Closed Captions.
- 5. **MTS/SAP Button** - Press to change the audio language.
- 6. **VOL (VOLUME) ^ / v Buttons** - Press the ^ button to increase, or the v button to decrease the sound level.
- 7. **MENU Button** - Press to display the On-Screen menu.
- 8. **CURSOR ^/v/</> Buttons** - Use to navigate and select menu functions of the LCD TV.
- 9. **SELECT Button** - Press to enter or select functions for the On-Screen menu.
- 10. **Direct Channel Selection Buttons (0-9)** - Allows direct access to any channel of the LCD TV.
- 11. **- Button** - This button is the "-" button used when selecting digital channels.
- 12. **INPUT Button** - Press to change the TV's input.
- 13. **INFO Button** - When you press this button, the current information will be displayed on the screen.
- 14. **TIME Button** - Press to display the time.
- 15. **S.MODE**-Sound mode selecting button.
- 16. **FAV CH** - Press to display favorite channels.
- 17. **LAST CH Button** - Pressing this button allow you to go back to the previous channel selected. Press this button again to return to the channel you were watching.
- 18. **CH (CHANNEL) ^ / v Buttons** - Press to change the channels of the TV.
- 19. **MUTE Button** - To turn off the sound, press this button once. The LCD TV will be silenced and the mute icon will appear on the screen. The muting feature can be released by pressing the **MUTE** button again or by pressing either of the **VOL (VOLUME) ^** or **v** buttons.
- 20. **EXIT Button** - Press to exit the On-Screen menu.
- 21. **SLEEP Button** - To set the LCD TV to turn off after a preset amount of time, use the **SLEEP** button on the remote control.
- 22. **Direct Input Key Buttons** - Press to go to the HDMI / TV / COMP /AV / RGB.(There is no function for the HDMI3 and HDMI4 keys on this model.)

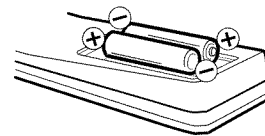
Before using the remote control, batteries must first be installed.

HOW TO INSTALL BATTERIES

1. Open the battery compartment cover.



2. Install two "AAA" batteries (supplied).



3. Replace the battery compartment cover.

Use two "AAA" size batteries. The batteries may last approximately one year depending on how much the remote control is used. For best performance, it is recommended that batteries should be replaced on a yearly basis, or when the remote operation becomes erratic. Do not mix old and new batteries or different types.

BATTERY PRECAUTIONS

These precautions should be followed when using batteries in this device:

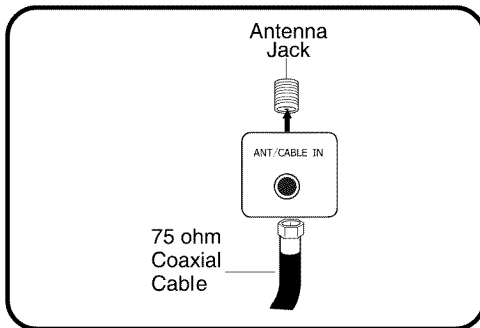
- Use only the size and type of batteries specified.
- Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
- Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
- If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
- Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions.)
- Please use caution when inserting batteries to avoid battery damage. If the spring terminal in the remote control remains in contact with a side of a damaged battery it can cause a short circuit. Never use damaged batteries as they can become very hot and are dangerous.

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- 4. **C.C. Button** - Used to turn on/off the Closed Captions.
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- 13. **INFO Button** - When you press this button, the current information will be displayed on the screen.
- 14. **TIME Button** - Press to display the time.
- 15. **S.MODE**-Sound mode selecting button.

Antenna connections

If you are using an indoor or outdoor antenna, follow the instructions below that correspond to your antenna system. If you are using a Cable TV service, see Cable TV connections.

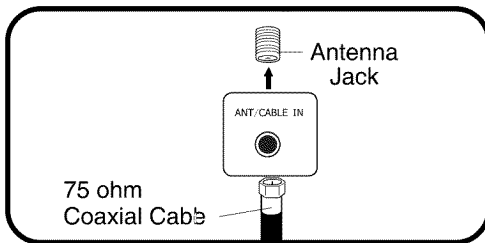
Combination VHF/UHF Antenna (Single 75 ohm cable)



Cable TV connections

This TV has an extended tuning range and can tune most cable channels without using a Cable TV Converter box. Some cable companies offer "premium pay channels" where the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device which is generally provided by the Cable TV company.

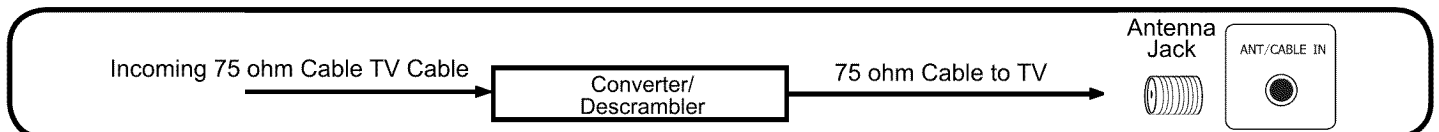
For subscribers to basic Cable TV service



For basic Cable TV service not requiring a Converter/Descrambler box, connect the 75 ohm Coaxial Cable directly to the Antenna Jack on the back of the TV.

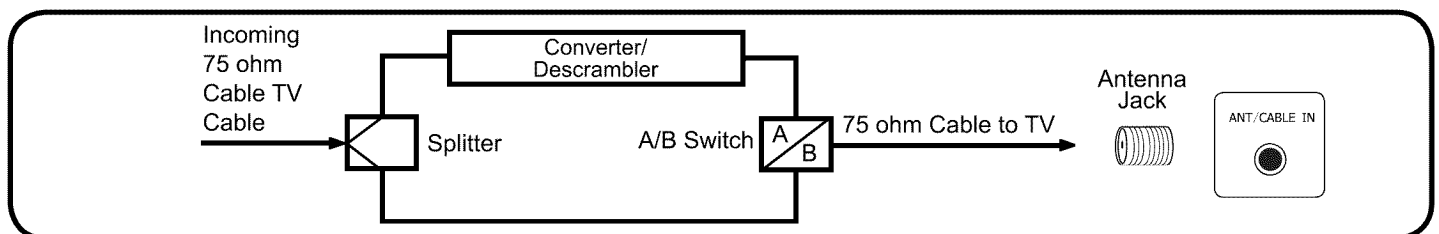
For subscribers to scrambled Cable TV service

If you subscribe to a Cable TV service which requires the use of a Converter/Descrambler box, connect the incoming 75 ohm Coaxial Cable to the Converter/Descrambler box. Using another 75 ohm Coaxial Cable, connect the output jack of the Converter/Descrambler box to the Antenna Jack on the TV. Follow the connections shown below. Set the TV to the output channel of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to select channels.



For subscribers to unscrambled Cable TV service with scrambled premium channels

If you subscribe to a Cable TV service in which basic channels are unscrambled and premium channels require the use of a Converter/Descrambler box, you may wish to use a signal Splitter and an A/B Switch box (available from the Cable TV company or an electronics supply store). Follow the connections shown below. With the switch in the "B" position, you can directly tune any unscrambled channels on your TV. With the switch in the "A" position, tune your TV to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to tune scrambled channels.

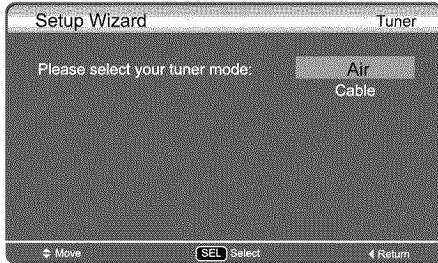


Starting setup

The Setup Wizard appears the first time you turn on the TV. It will assist you to specify the Air/Cable setting and program your channels automatically.

IMPORTANT: Make sure that the antenna or cable TV system connection is made.

- 1 To turn on the TV, press **POWER** (POWER indicator on the front of the unit changes blue. It may take approx. 10 seconds for a picture to appear on screen.). The Setup Wizard function begins.



- 2 Press **▲** or **▼** to select "Source", then press **◀** or **▶** to select "Cable" or "Air".
- 3 Press **▲** or **▼** to select "Scan", then press **▶** or **SELECT**.
- 4 "Setup Wizard" will begin. After the Setup Wizard is completed, the TV channel appears on the screen.
 - Depending on the reception condition, it may take up to 25 minutes or more to complete memorizing digital cable channels. Please allow the process to complete without interruption.

NOTE

- If you press **EXIT** in the process of "Setup Wizard", the Setup Wizard stops and changes to the normal screen. When you make a menu selection, your changes occur immediately. You do not have to press **EXIT** to see your changes.

TV operation

- 1 To turn on the TV, press **POWER**. (POWER indicator on the front of the unit changes blue. It may take approx. 10 seconds for a picture to appear on screen.)
- 2 Adjust the volume level by pressing **VOL ▲** or **▼**. The volume level will be indicated on the screen by volume bars. As the volume level increases, so do the number of bars. If the volume decreases, the number of volume bars also decreases.
- 3 Set the Source option to the appropriate position.
- 4 Press the **Direct Channel Selection (0-9, -)** buttons to select the channel. (If you press only the channel number, channel selection will be delayed for a few seconds.)

TO SELECT ANALOG CHANNELS

- 1-9: Press 1-9 as needed. Example, to select channel 2, press **2**, then press **SELECT**.
- 10-99: Press the 2 digits in order. Example, to select channel 12, press **1, 2**, then press **SELECT**.
- 100-135: Press the 3 digits in order. Example, to select channel 120, press **1, 2, 0**, then press **SELECT**.

TO SELECT DIGITAL CHANNELS

Press the first 1-3 digits, then press the **-** button followed by the remaining number.

Example, to select channel 15-1, press **1, 5, -, 1**, then press **SELECT**.

- If a channel is selected with only audio content, "Audio only" will be displayed on the screen.
- If a channel is selected with a weak digital signal, "Weak Signal or Channel not available." will be displayed on the screen.
- The same program may be available on either an analog channel or a digital channel. You may choose to watch either format.
- If a channel is selected to which you have not subscribed, "Scrambled Video" will be displayed on the screen.

VHF/UHF/CABLE CHANNELS

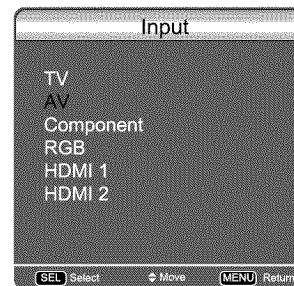
Air	Cable
VHF 2-13	VHF 2-13
UHF 14-69	CATV 1-125 Digital Terrestrial Broadcast(8VSB):2-69 Digital cable(64/256 QAM):1-135

NOTES

- If a channel with no broadcast is selected, the sound will automatically be muted.
- It may take a few seconds for a digital channel picture to appear on screen after being selected.

To select the video input source

To view a signal from another device connected to your LCD TV, such as a VCR player, press **INPUT**, then press **▲** or **▼**, then press **SELECT**. You can select TV, Video, Component, HDMI or RGB depending on which input jacks you used to connect your devices.



CH ▲/▼

Press and release **CH ▲/▼**. The channel automatically stops at the next channel set into memory.

For proper operation, before selecting channels, they should be set into the memory. Refer to the Channels Menu on page 14.

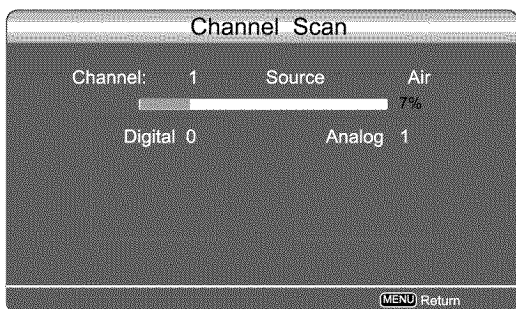
Using the Channels Menu



- 1 Press Menu button to display the main menu.
- 2 Press ▲ or ▼ button to select Channels.
- 3 Press ► or **SELECT** button to enter Channels menu.
- 4 Press ▲ or ▼ button to select the option, press ► or **SELECT** button to enter or press **Exit** button to exit.
- 5 When you are finished, press the **Exit** button to close the menu.

You can adjust:

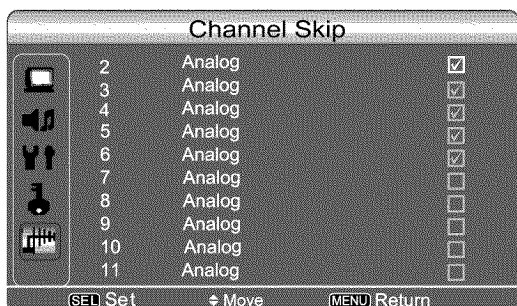
- Source - Select the TV signal source. You can select Air or Cable.
- Channel Scan - Scans for channels that have signals and stores the channels information in memory.



DTV: The scanned TV programs in digital signals.

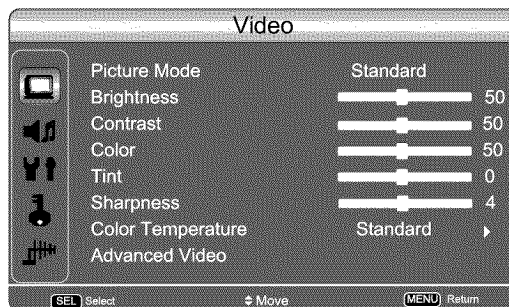
TV: The scanned programs in analog signals.

- Channel Skip - Deletes a channel stored in memory. When you press CH[^] or CH^v, your TV skips the channel you deleted. You can still tune to the channel using the number buttons on the remote control.



- Favorite CH List - Selects or cancel the favorite programs.
- MTS - Selects the sound mode. You can select Mono, Stereo, or SAP(Second Audio Program).
- Preferred Language - Selects your preferred language as the audio default language. This setting is only for digital channels.

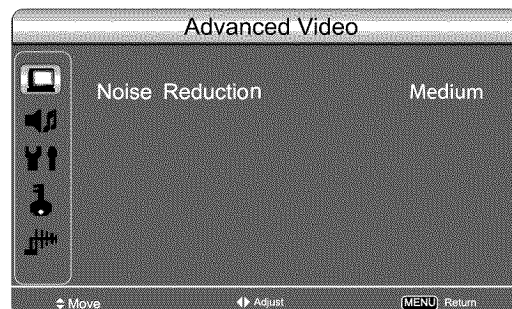
Using the Video Menu



- 1 Press Menu button to display the main menu.
- 2 Press ▲ or ▼ button to select Video.
- 3 Press ► or **SELECT** button to enter Video menu.
- 4 Press ▲ or ▼ button to select the option, press ► or **SELECT** button to enter or press **Exit** button to exit.
- 5 When you are finished, press the **Exit** button to close the menu.

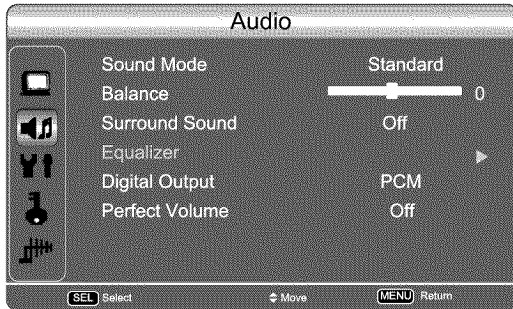
You can adjust:

- Picture Mode - Adjusts the Picture Mode. You can select Dynamic, Standard, Movie, or Custom.
- Brightness - Use this function to change the overall brightness of the dark areas of this picture.
- Contrast - Use this function to change the contrast between black and white level in the picture.
- Color - Use this function to adjust the level of color in the picture.
- Tint - Use this function to adjust flesh tones so they appear natural.
- Sharpness - Use this function to adjust the amount of fine detail in the picture.
- Color Temperature - Set this to High for cooler color with more blue, set to Warm for a more natural color or set to Standard for accurate color.
- Advanced Video - Accesses advanced video settings such as Noise Reduction.



- Noise Reduction: It can optimize the picture signal from time and space; reduce the outside noise interference and return the pure initial signal. It has four ratings: Low, Medium, High and Off.

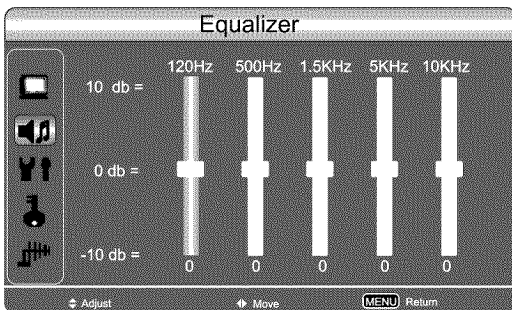
Using the Audio Menu



- 1 Press Menu button to display the main menu.
- 2 Press ▲ or ▼ button to select Audio.
- 3 Press ► or SELECT button to enter Audio menu.
- 4 Press ▲ or ▼ button to select the option, press ► or SELECT button to enter or press Exit button to exit.
- 5 When you are finished, press the Exit button to close the menu.

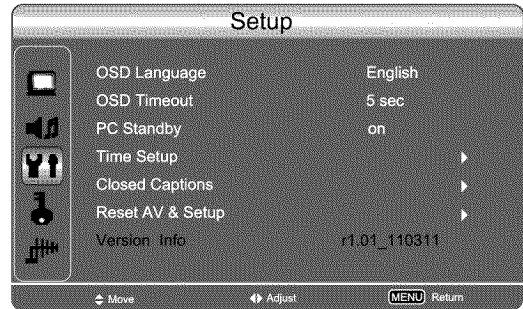
You can adjust:

- Sound mode - Selects a kind of sound mode. It can be Standard, Speech, Custom, Music.
- Balance - Adjusts the volume of the left and right speakers.
- Surround Sound - Turns the surround sound effect on or off.



- Equalizer - Weaken or enlarge the sound of the main frequency points.
- Digital Output - Selects the item, you can select PCM, RAW or Off.
 PCM - PCM is an encoding, mainly used for analog signal, Dolby mainly used for digital signal.
 RAW - When the data stream carries Dolby signal, digital audio outputs Dolby data stream. When the data stream carries no Dolby signal, it transports PCM data stream.
 Off - Select to turn off Digital Audio Output
- Perfect Volume - This function will automatically adjust volume so each channel and input has the same average volume level.

Using the Setup Menu

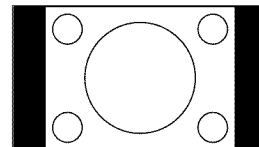


- 1 Press Menu button to display the main menu.
- 2 Press ▲ or ▼ button to select Setup .
- 3 Press ► or SELECT button to enter Setup menu.
- 4 Press ▲ or ▼ button to select the option, press ► or SELECT button to enter or press Exit button to exit.
- 5 When you are finished, press the Exit button to close the menu.

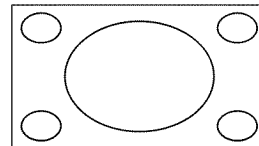
You can adjust:

- OSD Language - Use the right or left arrow button to choose the OSD Language among English, Spanish and French.
- OSD Timeout - Selects the lasting time of OSD. You can choose the time from 5 sec to 60 sec.
- Aspect Ratio - Use the arrow button to choose the screen aspect ration from 16:9, 4:3, Zoom, Cinema, Dot-to-Dot.

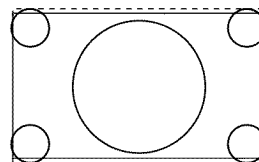
- 1 4:3
 The original 4:3 aspect ratio (1.33:1 signal) is preserved, so black bars are added to the left and right of the image. Standard TV broadcasts are displayed with a 4:3 aspect ratio.



- 2 16:9
 When watching a standard broadcast or full-frame movie in this mode, the display image is stretched proportionately to fill the TV screen.
 When watching a widescreen (1.78:1 signal) program or movie, the display image fills the TV screen.



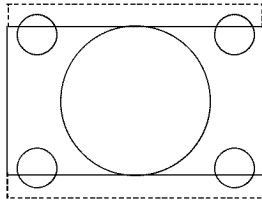
- 3 Zoom
 Stretches the 4:3 aspect ratio image vertically and horizontally to fill the screen at 1.33:1.33 aspect ratio.



Using the Setup Menu

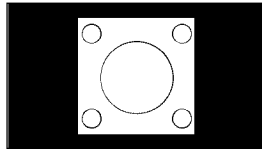
4 Cinema

Stretches the 4:3 aspect ratio image vertically and horizontally to fill the screen at 1.33:1.50 aspect ratio.

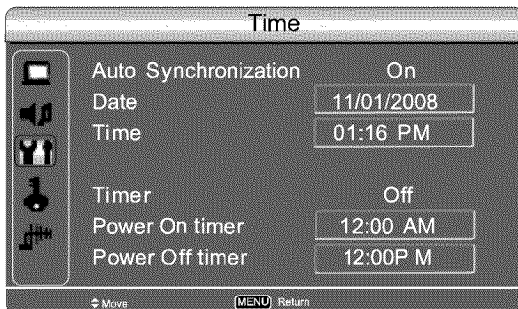
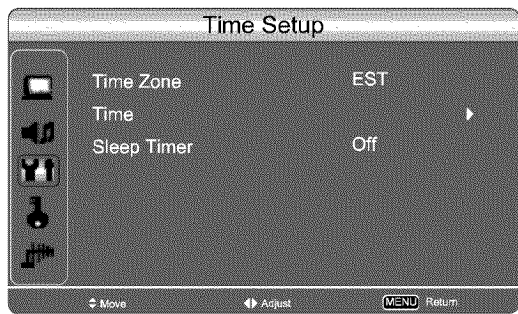


5 Dot to dot

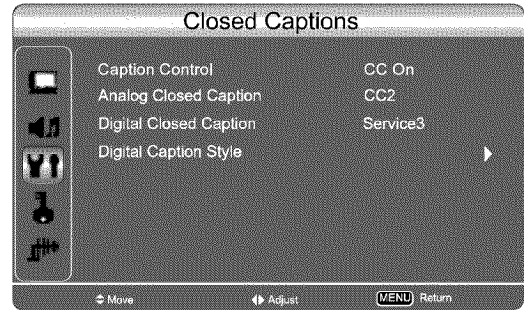
use the function to see the full image without any cutoff, when TV is in VGA source.



- PC Standby - This is a good function for a computer monitor. When PC Standby is on, the computer will control the screen on or off. For example, if the computer is in sleep mode, the screen will be switched off. If the computer is activated, the screen also is activated.
- Time Setup - You can set up the exact time by yourself. You can also set up Sleep Timer, Auto Synchronization, and Timer.



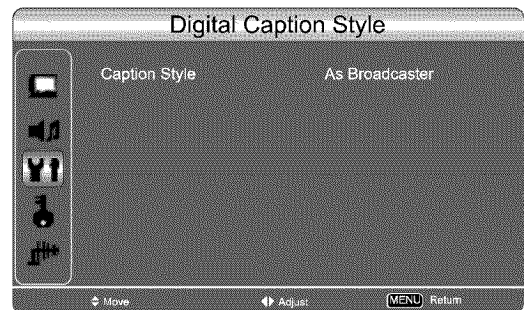
- Closed Captions - There are three items in it -Analog Closed Caption, Digital Closed Caption and Digital Caption Style. Display available analog and digital closed captions or modify the appearance of digital closed captions.



Caption Control: There are three items in it -CC On , CC Off, CC On When Mute.

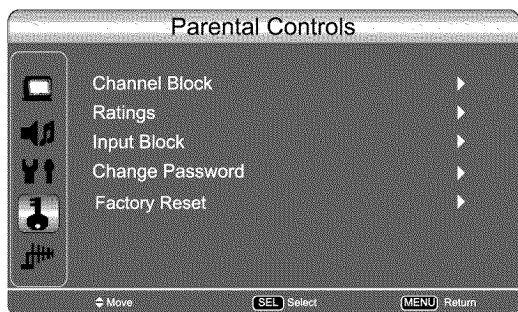
Analog Closed Caption: CC1,CC2,CC3,CC4, TEXT1,TEXT2,TEXT3,TEXT4.

Digital Closed Caption: Service1, Service2, Service3, Service4, Service5, Service6.



- Digital Caption Style - There are two Caption Styles. One is the automatic function set as the broadcaster, while the other is the custom style where you can adjust the font size, color, opacity, background color etc.,accordingly.
- Reset AV & Setup - Every TV has its original setting before leaving the factory. So this function helps you restore these settings.

Using the Parental Controls Menu



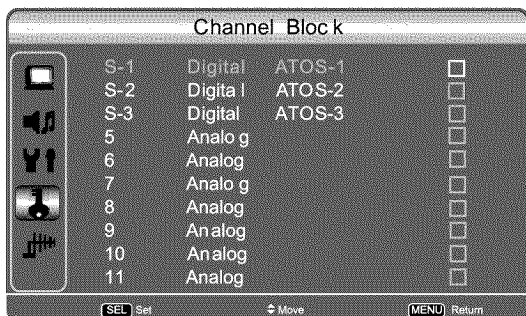
- 1 Press Menu button to display the main menu.
- 2 Press ▲ or ▼ button to select Parental Controls.
- 3 Press ► or **SELECT** button to enter Parental Controls menu.
- 4 Press ▲ or ▼ button to select the option, press ► or **SELECT** button to enter or press **Exit** button to exit.
- 5 When you are finished, press the **Exit** button to close the menu.

When you first use this function, the default password is [0000]. Once you input this password, you can: Press ▲ or ▼ to highlight an option, then press ◀ or ▶ to adjust the option.

You can adjust:



- Channel Block - This function will let you block any channel you want.

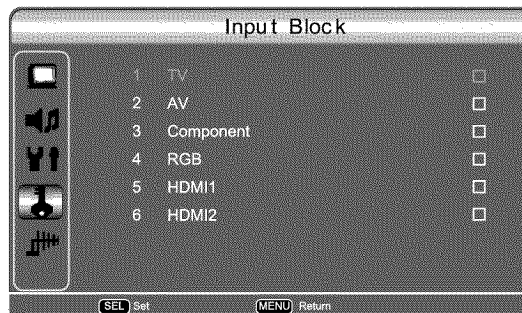


- Factory Reset - This function will reset your TV to the factory settings.

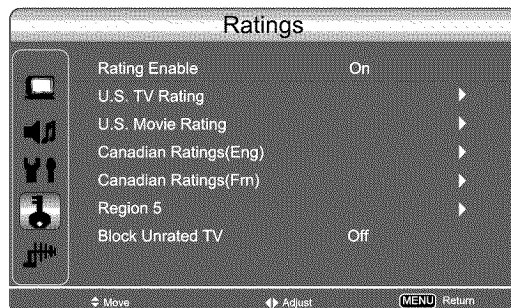
NOTE

If you choose this function, all the programs you preset will be lost, and you will have to complete the "Setup Wizard" again. Refer to Starting Setup on page 13.

- Input Block - You can block the input source with this function. For example, if you want to block AV input, just highlight **AV** and press **SELECT**. The AV input will not be seen in the screen.



- Ratings-
 - A. Rating Enable is on.
 - B. U.S. TV Ratings: You can choose TV ratings according to the illustration on the screen.
 - C. The settings for U.S. Movie Ratings, Canada (English) Ratings and Canada (French) Ratings follow Step B. If you want to block the unrated program, please turn on this function.
 - D. In order to set Region 5 Ratings the ATSC digital channel received must include region.
 - E. If you want to block the unrated program, please turn on this function.



- Change Password - The first time you use this function, use the default password. If you want to change it, first enter the new password then enter the same password again.
- If you forget your password, use the factory password 7777, you can then gain access to change your password if necessary.

Using the Parental Menu

The following are descriptions of the ratings.

TV Parental Guide Ratings

Age	Defined as
TV-Y	All children
TV-Y7	Directed to older children
TV-G	General audience
TV-PG	Parental Guidance suggested
TV-14	Parents Strongly cautioned
TV-MA	Mature Audience only

Contents	Defined as
FV	Fantasy Violence
D	Suggestive dialogue
L	Strong language
S	Sexual situations
V	Violence

Motion Picture Ratings

Rating	Defined as
G	General audience
PG	Parental Guidance suggested
PG-13	Parents strongly cautioned
R	Restricted
NC-17	No one 17 and under admitted
X	Adult audience only

Canadian Rating (ENG)

Rating	Description
C	Children
C8+	Children eight years and older
G	General Programming, suitable for all audiences
PG	Parents Guidance
14+	Viewers 14 years and older
18+	Adult programming

Canadian Rating (FRE)

Rating	Description
G	General
8 ans+	8+General; Not recommended for young children
13 ans+	Programming may not be suitable for children under the age of 13
16 ans+	Programming is not be suitable for children under the age of 16
18 ans+	Programming restricted to adults

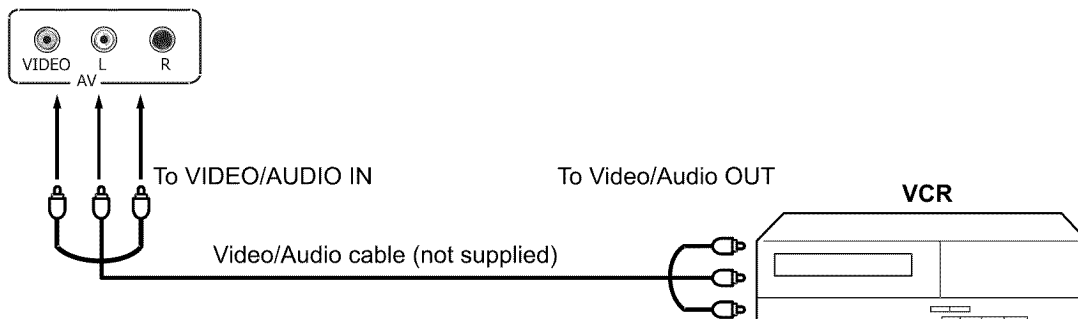
NOTE: As you block ratings, all ratings higher than the ones you select are blocked as well. For example, if you choose to block the MPAA rating R, the higher ratings, NC-17 and X, are automatically blocked too.

Connections to other equipment

The exact arrangement you use to interconnect various video and audio components to this unit is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of video and audio inputs and outputs.

To connect the LCD TV to a VCR

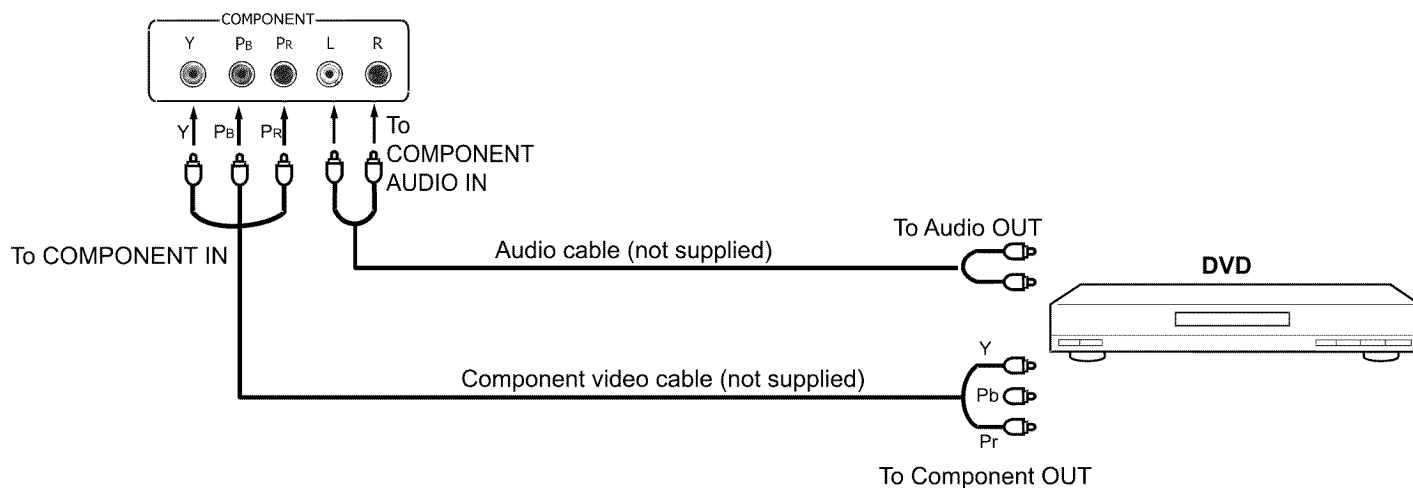
Back of the unit



To connect to a DVD player with Component Video Input

You can enjoy a high quality picture by connecting the unit's COMPONENT VIDEO OUT jacks of your DVD player with the COMPONENT video cables (not supplied).

Back of the unit



NOTE

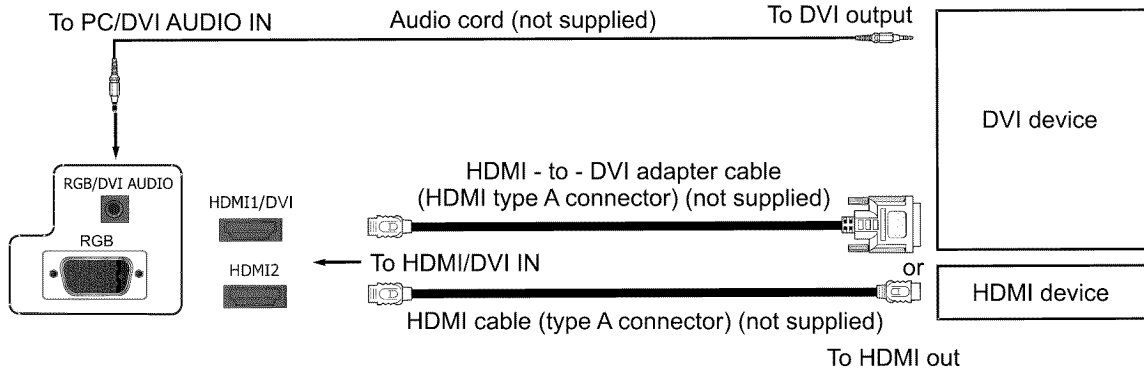
- Component Video input of the unit are for use with a device which output 480i/1080i interlaced signals and 480p/720p progressive signals.

To connect a HDMI or a DVI device to the unit

The HDMI/DVI input receives digital audio and uncompressed video from a HDMI device or uncompressed digital video from a DVI device.

When you connect to a DVI device with a HDMI-to-DVI adapter cable, it transfers only video signal. Separate analog audio cables are required.

Back of the unit

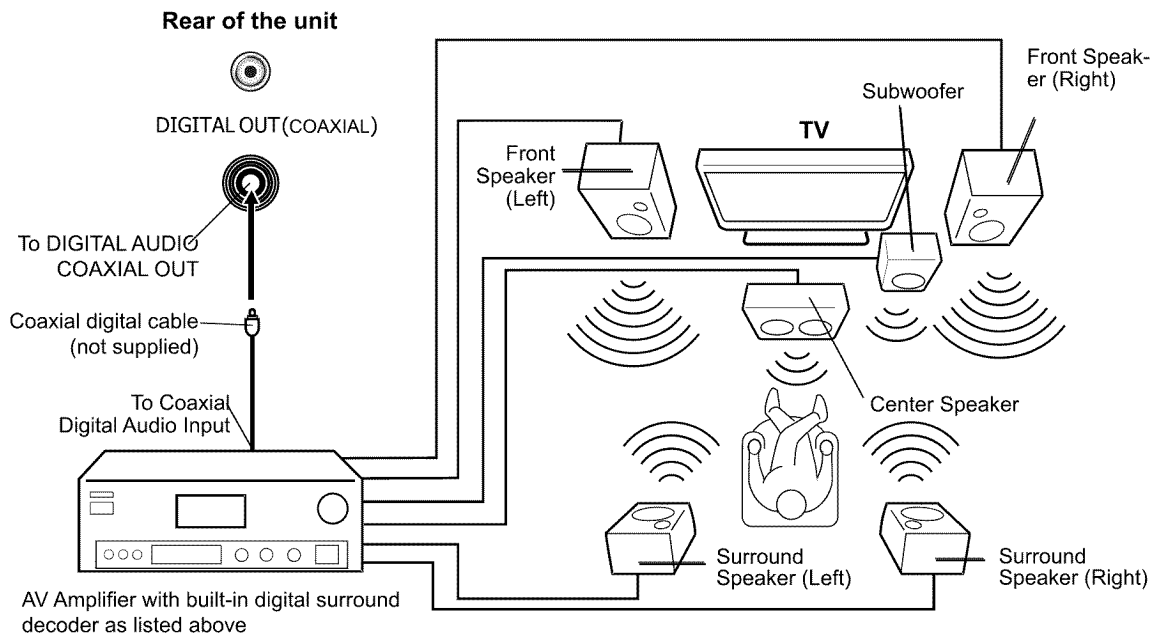


When using a HDMI input from a Set-Top-Box, it is recommended to use a 1080p, 1080i or 720p input signal. When the HDMI input is a 1080p signal, it is recommended that the length of the cable should be less than 5 meters.

Using an AV Amplifier with built-in digital surround

If you are using an Amplifier with built-in digital surround sound, you can enjoy various audio systems including Dolby Digital Surround audio that sounds just like the movie.

Connect an AV amplifier with built-in Dolby Digital decoder, DTS decoder, or MPEG decoder etc. as shown below.



NOTE

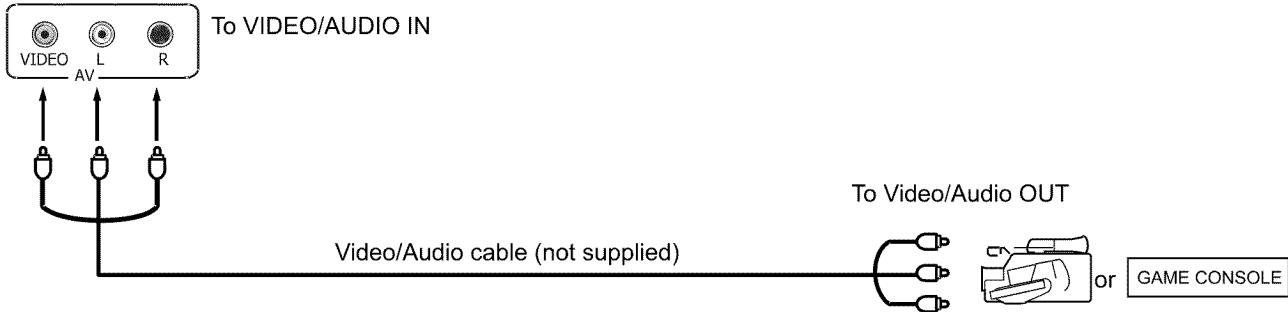
- When you are viewing digital broadcast, this unit will not work in conjunction with DTS audio or MPEG audio. There will be no sound output if connected to an AV amplifier with a built-in DTS decoder or MPEG decoder..

To connect the TV to a camcorder, or a game console

To play back from a camcorder, connect the camcorder to the unit as shown.

This unit can also be used as a display device for many video games. However, due to the wide variety of signals generated by these devices and subsequent hook-up variations required, they have not all been included in the suggested connection diagrams. You'll need to consult each component's Owner's Manual for additional information.

Back of the unit

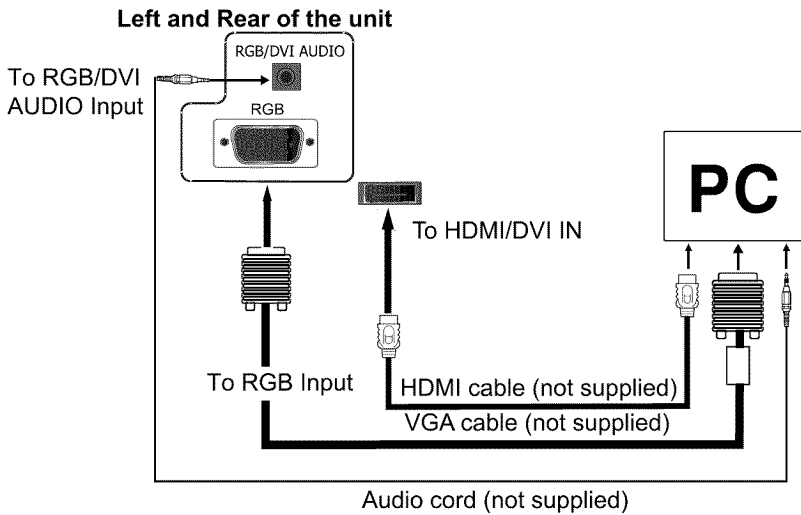


To connect the TV to a PC (Personal Computer)

Connect one end of a (male to male) VGA cable to the video card of the computer and the other end to the VGA connector RGB Input on the rear of the TV. Attach the connectors firmly with the screws on the plug. In case of a Multimedia computer, connect the audio cable to the audio output of your Multimedia computer and to the AUDIO connector of the RGB/DVI AUDIO Input jack of the TV. You can also connect the PC with HDMI cable. If you use a HDMI cable, you don't have to connect the audio cable. If you use a DVI-to-HDMI cable, please connect the audio cable in the same way as the RGB cable.

Press **INPUT** on the remote control to select RGB mode.

Switch on the computer. The TV can operate as the computer monitor.



Monitor Display modes

MODE	Resolution	Refresh rate
VGA	640x480	60 Hz
SVGA	800x600	60 Hz
XGA	1024x768	60 Hz
WXGA	1280x768	60 Hz
WXGA	1280x720	60 Hz
WXGA	1360x768	60 Hz

To return to normal mode
Press **INPUT** again.

NOTES

- The on-screen displays will have a different appearance in RGB mode than in TV mode.
- If there is no video signal from the PC when the unit is in RGB mode, "No signal" will appear on the TV screen.

Troubleshooting

Use the following checklist for troubleshooting if you have problems with your LCD TV. Consult your local dealer or service outlet if problems persist. Be sure all connections are properly made when using with other units.

SYMPTOMS	POSSIBLE SOLUTIONS
TV does not operate.	<ul style="list-style-type: none"> • Make sure the power cord is plugged in. • Try another AC outlet. • Power is off, check fuse or circuit breaker. • Unplug unit for an hour, then plug it back in.
Poor sound or no sound.	<ul style="list-style-type: none"> • Station or Cable TV experiencing problems, tune to another station. • Check sound adjustments (Volume or Mute). • Check for sources of possible interference.
Poor picture or no picture.	<ul style="list-style-type: none"> • Station or Cable TV experiencing problems, tune to another station. • Make sure channels are set into memory. • Check antenna or Cable TV connections, adjust antenna. • Check for sources of possible interference. • Check picture control adjustments.
Poor reception on some channels.	<ul style="list-style-type: none"> • Station or Cable TV experiencing problems, tune to another station. • Make sure channels are set into memory. • Station is weak, adjust antenna to receive desired station. • Check for sources of possible interference.
Poor color or no color.	<ul style="list-style-type: none"> • Station or Cable TV experiencing problems, tune to another station. • Make sure channels are set into memory. • Check picture control adjustments. • Check antenna or Cable TV connections, adjust antenna. • Check for sources of possible interference.
Picture wobbles or drifts.	<ul style="list-style-type: none"> • Station or Cable TV experiencing problems, tune to another station. • Make sure channels are set into memory. • Cable TV company is scrambling signal. • Adjust antenna.

SYMPTOMS	POSSIBLE SOLUTIONS
Digital broadcasting screen problem.	<ul style="list-style-type: none"> • Check digital signal strength.
No CATV reception.	<ul style="list-style-type: none"> • Check all Cable TV connections. • Set Air/Cable menu option to the Cable mode. • Station or Cable TV system problems, try another station.
Horizontal or diagonal bars on screen.	<ul style="list-style-type: none"> • Check antenna connections, adjust or re-direct antenna. • Check for sources of possible interference.
No reception above channel 13.	<ul style="list-style-type: none"> • Make sure Source option is in the appropriate mode. • If using antenna, check UHF antenna connections.
No Remote operation.	<ul style="list-style-type: none"> • Batteries are weak, dead or inserted incorrectly. • Remote is out of range, move closer to TV (within 15 feet). • Make sure Remote is aimed at sensor. • Confirm there are no obstructions between the Remote and the TV. • Make sure the power cord is plugged in.
TV shuts off.	<ul style="list-style-type: none"> • Sleep Timer is set. • Power interrupted.
Closed Caption is not activated.	<ul style="list-style-type: none"> • TV station experiencing problems or program tuned is not closed captioned. Try another channel. • Check Cable TV connection or VHF/UHF antenna, reposition or rotate antenna. • Set closed caption decoder in the menu.
TV is not shown in your language.	<ul style="list-style-type: none"> • Select proper language in the menu options.

If the problem cannot be solved with the suggested procedures, contact 800.HITACHI. For your safety, never try to repair the product yourself.

GENERAL	
Power supply	AC 120V 60Hz
Power consumption	Operation: 63W Standby: 0.9W
Weight	9.2 kg (20.3lbs)
Dimensions(with stand)	Width: 772 mm (30.4 inches) Height: 560 mm (22 inches) Depth: 221 mm (8.7 inches)
Operating temperature	5°C - 40°C
Operating humidity	Less than 80% RH
TELEVISION	
Type	80.0cm (32" class/ 31.51" diagonal)
Display method	Transmission TFT color LCD panel
Number of Pixels	1366 (H) x 768 (V)
Broadcasting system	US system M ATSC standard (8VSB), QAM
Receiving channels	VHF 2-13 UHF 14-69 CATV 1-125 Digital Terrestrial Broadcast(8VSB):2-69 Digital cable(64/256 QAM):1-135
Tuner type	Frequency synthesized
Inputs	Video: 1.0 V (p-p), 75 ohms Audio: 2V RMS max, 50k ohms terminated Component video: (Y) 1.0 V (p-p), 75 ohms (Pb)/(Pr) 0.7 V (p-p), 75 ohms HDMI: HDMI compliant (type A connector) HDCP compliant E-EDID compliant Suggested scan rates: 1080p, 1080i, 480p, 480i, 720p HDMI Audio: 2-channel PCM 32/44.1/48 kHz sampling frequency 16/20/24 bits per sample PC Monitor: Mini-Dsub 15pin x 1 Antenna: VHF/UHF In 75 ohms coaxial
Output	Digital audio: 0.7 V (p-p), 75 ohms terminated Audio out(L/R): 2V RMS, 10k ohms terminated
Speaker	121mm x 36mm x 47mm(4.76 inch x 1.4 inches x 1.9 inches), 8 ohms x 2
Audio output power	6.0W + 6.0W
ACCESSORIES	
	Remote control/Batteries (AAA) x 2/Stand/Stand Screw x 3 /Owner's Guide/Easy Graphic Guide

- Designs and specifications are subject to change without notice.
- For information on our other products, please visit our website at www.hitachi.us

Service Information

800.HITACHI
(800.448.2244)

Monday ~ Friday
8:00 am - 7:00 pm CST

www.hitachi.us/tv



HITACHI AMERICA, LTD.

HITACHI has made every effort to assure you hours of trouble free operation from your Hitachi product. Should you require service assistance with **OPERATIONAL, HOOK UP, TECHNICAL ASSISTANCE OR WARRANTY SERVICE SUPPORT**, please contact one of our knowledgeable Customer Service Representatives at **800. HITACHI (800.448.2244)**.

Our Customer Service Representatives will provide you with the assistance you need and if necessary coordinate the repair process with a local Authorized Service Facility in your area. Please be prepared to submit proof of purchase and/or delivery receipts to your 800.HITACHI Customer Service Representative. Warranty coverage will be provided in accordance with the provisions of your Limited Warranty (see the Limited Warranty page in this owners guide).

Pour de plus amples renseignements sur le service durant la période couverte par la garantie, sur le fonctionnement ou pour de l'assistance technique communiquez avec:

Au Canada: 800.HITACHI (800.448.2244)

Lundi~ Vendredi 8:00 am – 7:00 pm HNC

Hitachi America, Ltd., Digital Media Division

Customer Service Support

PO Box 3900

Peoria, IL 61612

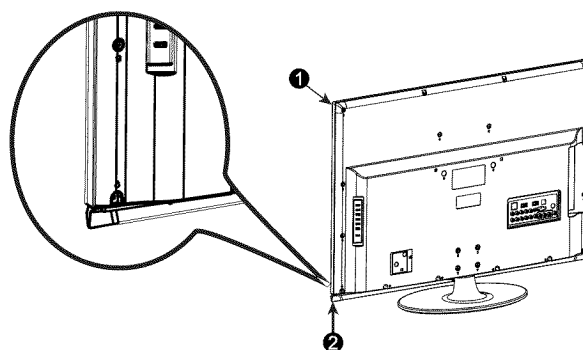
U.S.A.: customerservice.ce@hal.hitachi.com

Canada: customerservice.canada@hal.hitachi.com

Customer Record

The MODEL NAME and SERIAL NUMBER of this product is located on the backcover and also on the RIGHT SIDE of the set. Please follow the next steps to find this information and then record it in the space provided below for use in case you call 800.HITACHI, they will require this information in order to give you the proper support.

- 1 Look on the right side of the set.
- 2 Locate the label where it shows the information related to MODEL NAME and SERIAL #.
- 3 800.HITACHI will require this information in order to give you the proper support regarding your questions.



Limited Warranty

ENGLISH

Congratulations on your purchase of a new Hitachi display product.

LIMITED WARRANTY

Hitachi America, Ltd. warrants this product in accordance with the terms and conditions applicable to the products identified below:

Conditions of Hitachi Limited Warranty

This Hitachi display product (the "Product") is warranted to be free from defects in materials and workmanship beginning on the date of purchase by the original owner and continuing for the duration of the applicable time periods specified below. If the Product is found to be defective, Hitachi will repair or replace (at Hitachi's option) defective parts at no charge, subject to the conditions of this Limited Warranty. If the original owner rejects, refuses or otherwise does not accept Hitachi's offer to repair or replace such defective parts under this Limited Warranty, this Limited Warranty shall be void and of no further force or effect. This Limited Warranty extends to the original owner only and is not transferable, and such owner must provide a dated sales receipt for the Product to qualify for parts or service under this Limited Warranty. The original owner must notify Hitachi of a defect claim by calling 800.HITACHI during the applicable Limited Warranty period for this Limited Warranty to be effective. This Limited Warranty is valid only in the U.S.A. and Puerto Rico.

Hitachi Product :
LCD Flat Panel Televisions

PARTS: The Limited Warranty period for parts is 1 year from the date of original purchase. During the Limited Warranty period for parts, Hitachi will replace defective parts with new or rebuilt parts (at Hitachi's option) at no charge for such parts. Any replacement part will be warranted for the remainder of the original warranty period applicable to the part replaced.

LABOR: The Limited Warranty period for labor is 1 year from the date of original purchase. During the Limited Warranty period for labor, Hitachi will repair or replace (at Hitachi's option) defective parts without charge for labor.

SERVICE LOCATION: In-home warranty service, which includes either in-home repair or free pick-up and delivery (at Hitachi's option), applies to all Hitachi products except: (i) 30-inch and smaller LCD Flat Panel Televisions; (ii) Products located outside the U.S.A. or Puerto Rico; (iii) Products located more than seventy-five (75) driving miles from Hitachi's nearest Authorized Service Facility. If the foregoing clauses (i), (ii), (iii) apply, then the Product owner will be responsible for bringing/delivering the Product to a Hitachi Authorized Service Facility and, following warranty service, retrieving the Product from such Authorized Service Facility.



Hitachi is a proud supporter of the Certified Service Center program. Businesses who display the CSC certification mark have demonstrated that they operate in accordance with the high standards of professionalism prescribed by the Consortium for Certified Service Centers.

IMPORTANT:

Before using or installing your Product, please complete this form and attach your sales receipt and retain them for your records. This will help facilitate proper warranty coverage.

800.HITACHI (800.448.2244)

Please call 800.HITACHI (800.448.2244) for operational, hook up or warranty service support.

Visit our website at www.hitachi.us/tv :

Hitachi's website features a wealth of information on Hitachi products and technologies, as well as downloadable owners guides and other useful information.

MODEL NAME	SERIAL NO.
DEALER NAME	DATE OF PURCHASE
DEALER ADDRESS	
CITY	STATE

Warranty Limitations

This Hitachi Limited Warranty does not cover:

- A. Any Product that has been modified or repaired in a manner not previously authorized by Hitachi in writing.
- B. Any Product whose serial number has been removed, altered, replaced, defaced or rendered illegible.
- C. Any defect, malfunction, or failure caused by or resulting from improper or unauthorized service, maintenance or repair.
- D. Damage resulting from abuse, misuse, mishandling, neglect or damage caused by exposure to hostile operating environments such as areas containing dust and/or smoke.
- E. Damage caused by power surges, accidents, natural disasters or any other events or circumstances outside Hitachi's control.
- F. Any Product used in any manner inconsistent with the acceptable set-up, usage, safety or installation configurations identified in the Product's Owners Guide.
- G. Any Product used for purposes or applications, or subjected to operating conditions, other than those identified as acceptable in the Product's Owners Guide.
- H. Product repairs (including any product whose case has been opened), or part replacements provided or installed, by any person other than an Authorized Hitachi Service Facility Representative.
- I. Improper uncrating, set-up or installation or any misadjustments caused by user-operated controls.
- J. Any labor or costs associated with removing the Product from a custom cabinet or other specialized product installation that impedes direct and immediate removal of the Product from the owner's premises (must be arranged and paid by the owner).
- K. Product cabinets, cabinet parts, knobs, batteries or accessories.
- L. Product screens that have been cleaned by any method other than as specified in the Product's Owners Guide.
- M. Normal usage, degraded brightness caused by backlight aging and/or cell defects or ordinary wear and tear, including, without limitation, scratches or marks on the Product's screen, cabinet or the appearance of bright or dark screen pixels.
- N. Any Product returned for service that is damaged due to improper packaging, mishandling or shipping. (IMPORTANT: When shipping any Product to a Hitachi Authorized Service Facility, Product owner must package it securely in the original shipping container or its equivalent to prevent damage. The Product must be returned with the shipping charges prepaid and proof of purchases included in the shipping container. Failure to properly package such product during such shipment will void all warranties.)
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Software Module	Library Name	Link	Applicable License
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ENGLISH

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Appendixes

Appendix A: Picture Format for Each Input Source

Aspect Specifications

Aspect		4:3	16:9	Dot toDot	Zoom	Cinema
Zoom Ratio	SD:OverScan(5%) HD:OverScan (3%)	YES	YES	No	YES	YES
Air / Cable	NTSC, 480i,480p	YES	YES	--	YES	YES
	720p, 1080i	--	YES	--	--	--
Composite/S-video		YES	YES	--	YES	YES
Component	480i, 480p	YES	YES	--	YES	YES
	720p, 1080i,1080P	--	YES	--	--	--
HDMI (DVI)	VGA, SVGA,	YES	YES	--	YES	YES
	XGA, WXGA			--		
	480i, 480p	YES	YES	--	YES	YES
	720p, 1080i, 1080p	--	YES	--	--	--
RGB		YES	YES	YES	--	--

Appendix B: RGB Format

Resolution	Frequency(Hz)
640x480	60
800x600	60
1024x768	60
1280x720	60
1280x768	60
1360x768	60

NOTE

The type of video board or connecting cable may not allow for correct displays adjustment of H-Position, V-Position, Clock and Phase.

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