

HITACHI

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Alpha Series LCD Flat Panel HDTV Operating Guide for L42A403 & L32A403

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READ THE ENCLOSED INSTRUCTIONS CAREFULLY. KEEP THIS OPERATING GUIDE FOR FUTURE REFERENCE.
Record the model name and serial number of your LCD Television for future reference.

MODEL NAME. _____ SERIAL NO. _____

This information is located on the back and right side of the television.



Important Safety Instructions



SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR HITACHI LCD TELEVISION

Our reputation has been built on the quality, performance, and ease of service of Hitachi LCD televisions.

Safety is also foremost in our minds in the design of these units. To help you operate these products properly, this section illustrates safety tips which will be of benefit to you. Please read it carefully and apply the knowledge you obtain from it to the proper operation of your Hitachi LCD television.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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 a sufficient magnitude to constitute a risk of electric shock to a person.



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.

READ BEFORE OPERATING EQUIPMENT

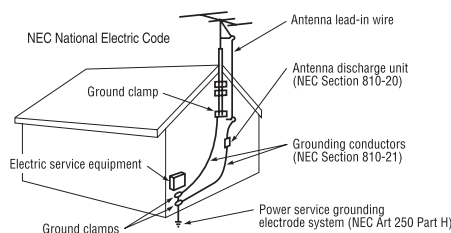
Follow all warnings and instructions marked on this LCD television.

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 a 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 the 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 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. Televisions are designed to comply with the recommended safety standards for tilt and stability. Do not apply excessive pulling force to the front, or top, of the cabinet which could cause the product to overturn resulting in product damage and/or personal injury.
16. Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
17. An outdoor antenna should not be located in the vicinity of overhead power lines or other electrical circuits.
18. If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding for the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

NOTE To the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-44 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.



Power source

This LCD television is designed to operate on 120 volts 60 Hz, AC current. Insert the power cord into a 120 volt 60 Hz outlet. The mains plug is used as the disconnect device and shall remain readily operable.

To prevent electric shock, do not use the LCD television's (polarized) 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.

This television's factory default settings as shipped meet Energy Star requirements.

Please see the ENERGY OPTIONS section of this operating guide for more energy saving tips.



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.

Important Safety Instructions



Warning



- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- The LCD television should not be exposed to dripping or splashing and objects filled with liquids, such as vases, should not be placed on the television.
- This apparatus shall be connected to a mains socket outlet with a protective earthing connection.

Public viewing of copyrighted material

Public viewing of programs broadcast by TV stations and cable companies, as well as programs from other sources, may require prior authorization from the broadcaster or owner of the video program material.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized, and is intended for home and other limited payper-view uses only unless otherwise authorized. Reverse engineering or disassembly is prohibited.

Lead/Mercury Notice

Hg

This product contains lead and one or more non-replaceable mercury backlights. Do not put in trash. Recycle or dispose of according to applicable laws. For product recycling and disposal information, contact your local government agency or visit www.eiae.org (in USA) or www.epsc.ca (in Canada). **FOR MORE INFORMATION, CALL 800-HITACHI.**

FEDERAL COMMUNICATIONS COMMISSION NOTICE

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 the 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/television technician for help.

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.



Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hitachi Home Electronics (America), Inc, may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Any cables that are supplied with the system must be replaced with identical cables in order to assure compliance with FCC rules. Order Hitachi spares as replacement cables.

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

NOTE

INDUSTRY CANADA AGENCY REGULATORY INFORMATION

Cable Compatible Television Apparatus- Télévision câblocompatible, Canada.

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 Home Electronics (America), Inc.
900 Hitachi Way
Chula Vista, CA 91914-3556
Tel. 800-448-2244(800-HITACHI)
ATTN: Customer Relations

- VGA and XGA are trademarks of International Business Machines Corporation.
- VESA is a registered trademark of the Video Electronics Standard Association.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks of registered trademarks of HDMI Licensing LLC.

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:



THE ISSUE

- 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.

HITACHI CARES!

- The consumer electronics industry is committed to making home entertainment enjoyable and safe.

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.

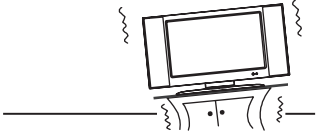
WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

- 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.

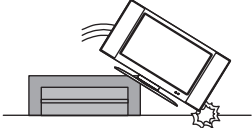


PRECAUTIONS AND REMINDERS


Do not place the unit on uneven surfaces, this may drop or damage the unit, it may also cause personal injury.




Unplug immediately if any foreign materials falls into the TV or if the TV fell down.



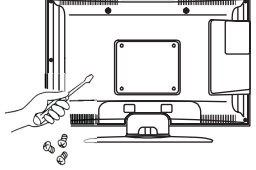
Do not cover or block any vents and openings of the TV. Inadequate ventilation may shorten the life of the display unit and cause overheating.



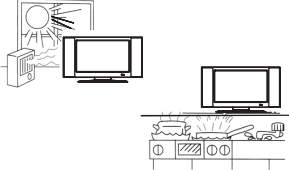
Unplug immediately if there is a malfunction on the TV like no picture, no video/audio or if there is smoke and bad odor coming from the TV.



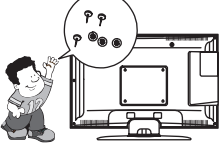
Do not open the TV cabinet.



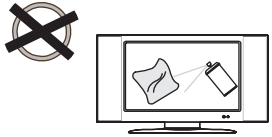
Avoid direct sunlight, dusty, high humidity and smoke locations.




Don't throw any objects inside the TV like metals, coins or any other flammable materials.



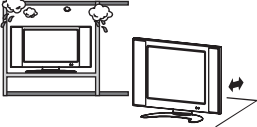
Remember to unplug the AC cord from the AC outlet before cleaning. Do not use liquid cleaners or aerosol cleaners to clean the display.



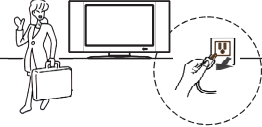
Do not place the TV near water, such as bathtub, shower rooms, kitchen sink, laundry tub or swimming pool. Avoid liquid containers on top of the unit.



Don't place the TV in confined spaces or inside a box when the TV is operating.



Make sure to unplug the unit when not in use for a long period of time (days).



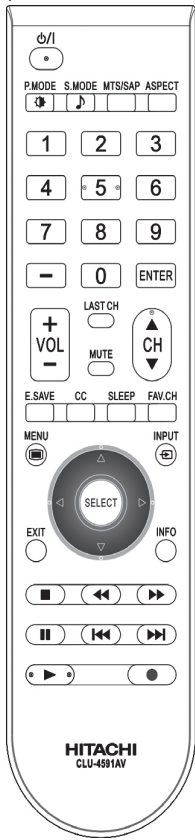
 Notice for Remote Controller

<p>Avoid dropping the unit.</p> 	<p>Avoid liquids on it.</p> 	<p>Avoid aerosol cleaners.</p> 
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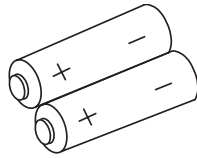
Accessories

Check to make sure you have the following accessories before disposing of the packing material.

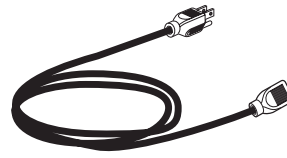
- ① Remote Control Unit
CLU-4591AV
(Part No. HL02631)



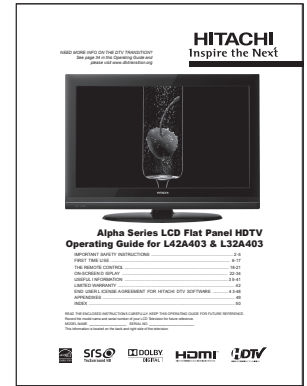
- ② "AA" Size Batteries (2)



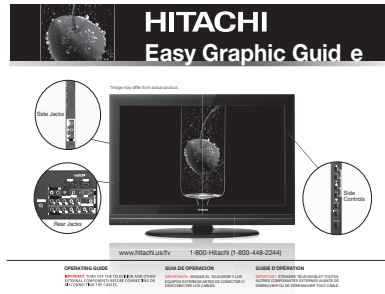
- ③ Power Cord



- ④ Operating Guide

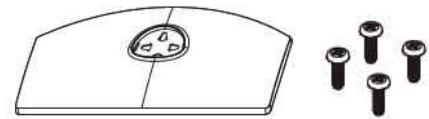


- ⑤ Easy Graphic Guide



- ⑥ Stand Screw (4)
L32A403 : T4x14
L42A403 : M6x10

- ⑦ Stand Base



705TQ934J35 L32A403StandBaseAssy
705TQ934N21 L42A403StandAssy
(both of them come w/4 screws)

For optional accessories, please access our web site at: www.hitachi.us/tv

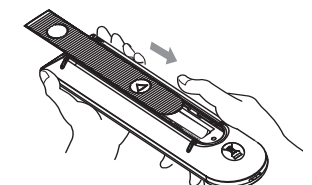
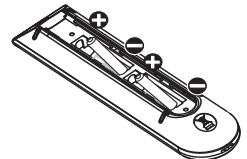
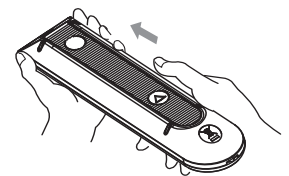


- Ceiling mounting is not recommended. Mounting the panel on the ceiling does not provide adequate ventilation for the electronics or proper support for the front glass panel. This LCD television product is designed for a maximum tilting angle of 45 degrees from vertical.
- Please see page 8 for important information related to wall mounting.

REMOTE CONTROL BATTERY INSTALLATION AND REPLACEMENT

The remote control operates on 2 "AA" batteries.

1. Open the battery cover of the remote control by pushing and sliding it in the direction of the arrow.
2. Insert two new "AA" size batteries for the Remote Control. When replacing old batteries, push them towards the springs and lift them out.
3. Match the batteries to the (+) and (-) marks in the battery compartment.
4. Insert the bottom of the battery, the (-) side, into the battery compartment first, push towards the springs and insert the top of the battery, the (+) side, into place. Do not force the battery into the battery compartment.
5. Close the battery cover by sliding back the cover and push the cover until it clicks shut.



- Do not insert batteries with '+' and '-' polarities reversed as this may cause the batteries to swell or rupture resulting in leakage.
- Never mix used and new batteries in the device.
- Replace all the batteries in the device at the same time.
- Remove the batteries if the remote control is not going to be used for an extended period of time.

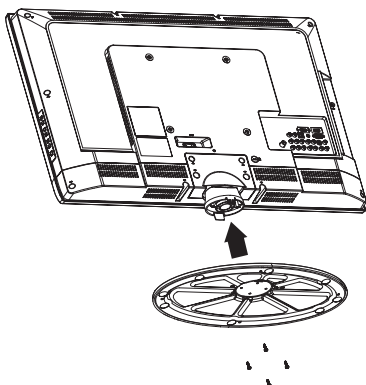
How To Install Your New Hitachi LCD Television

Take the following precautions to prevent the LCD Television from tipping over and possibly causing injury. It is important to mount the unit on a stable and flat surface.

ASSEMBLY OF THE BASE

IMPORTANT: The base of the LCD TV must be assembled prior to use.

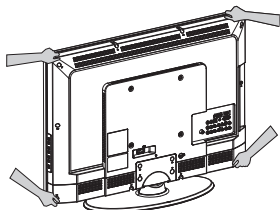
1. Place the TV unit face down on a soft and flat surface covered by a blanket, foam, cloth, etc. to prevent any damage or scratches to the LCD TV.
2. Carefully align and insert the Base to the TV stand post.
3. Insert the screws included with the accessories to the bottom of the base and tighten the base to the stand.



Caution when moving the main unit

As this product is heavy, whenever it is moved, at least two people are required to transport it safely. Whenever the unit is moved it should be lifted forward using the top and base on both sides of the Television for stability.

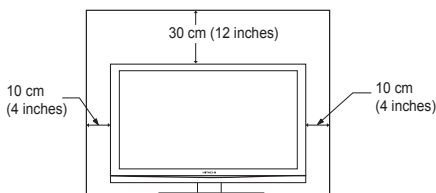
When moving the Television, lift from the corners, then support the top frame as shown below.



Location

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. If so, drapes or screens can be used to reduce the reflection.

Also, be sure that the location selected allows a free flow of air to and from the perforated back cover of the set. In order to prevent an internal temperature increase, maintain a space of 10 cm (4 inches) from the sides/back of the Television, and 30 cm (12 inches) from the top of the television to the ceiling. To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot, for example, in direct sunlight or near a heating appliance, etc.



NOTES

- Do not block the ventilation holes of the LCD Television. Blocking the ventilation holes might cause overheating and damage.
- In case of an abnormal symptom, unplug the AC cord and contact 800-HITACHI.
- If you purchased a wall mount bracket, please ask for professional installation. Do not try to install by yourself.
- Install the unit at a proper area where it does not expose anyone to any danger of hitting themselves (for example their hands, head or face, etc.) against the edge of the unit that could cause personal injury.

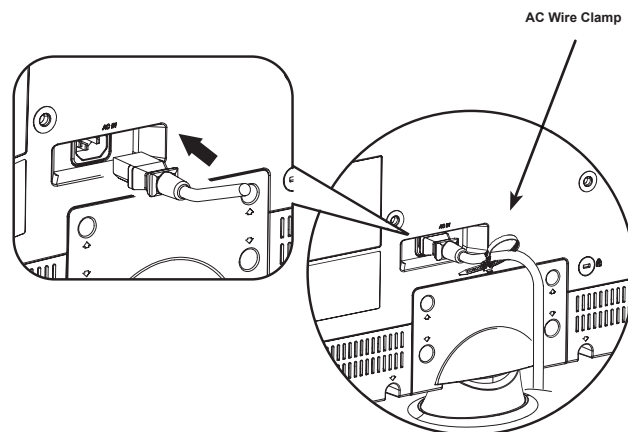


AC Cord Installation

The power cord provided with your new LCD Television needs to be installed correctly to avoid its disconnection when rotating the TV on its Table Top Stand.

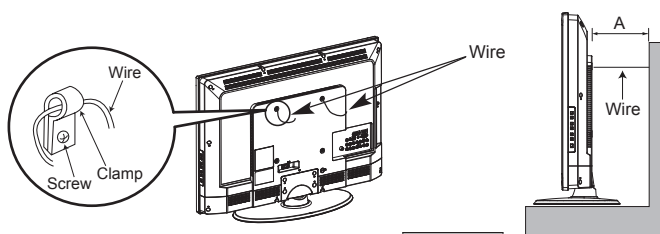
Located on the back of the TV there is one plastic clamp to hold the power cord. Please follow the instructions below.

- ① Pass the power cord through the clamp and connect it to the TV.
- ② Close the clamp to fix the power cord to the TV.
- ③ All the cables connected to the TV will be held by this clamp.



Securing to a Wall

1. Using metallic wire (two locations) fasten the set to the clamping screw on the rear of the LCD TV as shown below.
2. Keep the LCD television 4 inches away from the wall, except when mounted using the wall mount bracket, and secure to the wall as shown below:



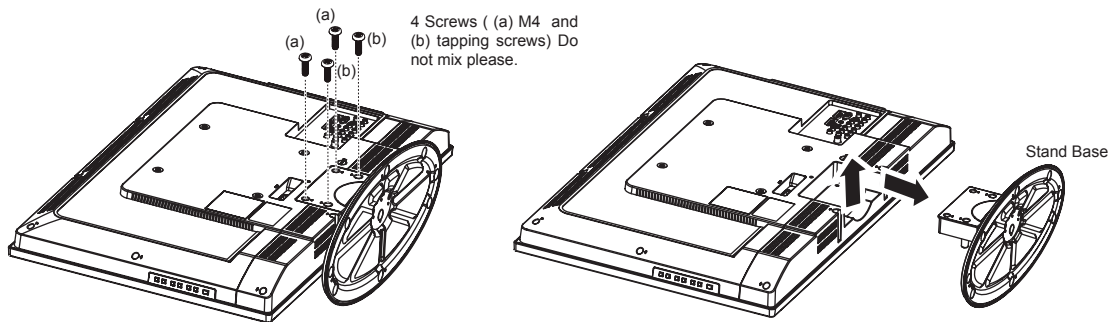
	A
32"	4 in.
42"	10 cm.

How To Install Your New Hitachi LCD Television

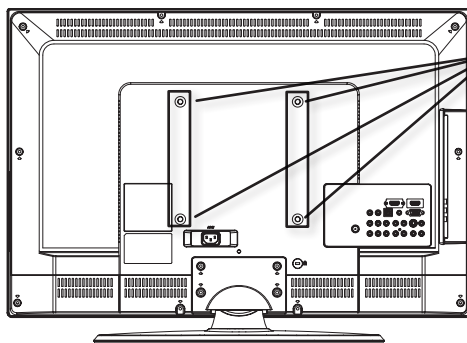
WALL MOUNTING SETUP

STEP (1) : REMOVE THE STAND BASE FROM THE LCD TELEVISION

In order to remove the stand from the TV, please put the TV set on a soft and flat surface (blanket, foam, cloth, etc.) to prevent any damage; then remove the 4 screws shown below in order to separate the TV from the Table Top Stand. Now the Stand can be separated from the TV. Useful dimensions for the WALL MOUNT assembly are in page 39 and 40.

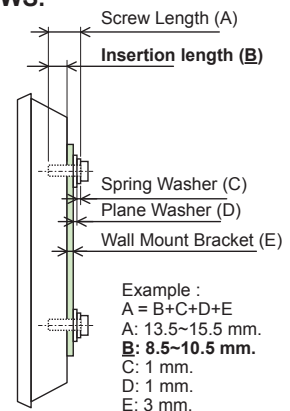


STEP (2) : INSTALL THE WALL MOUNT BRACKETS ON THE LCD TELEVISION USING 4 SCREWS.



Screw Mounting Holes (4 places). Don't use the original screws (A) were in the TV for the Table Top Stand. The original screws are not long enough to properly secure the TV to the wall bracket.

Wall Mount Brackets



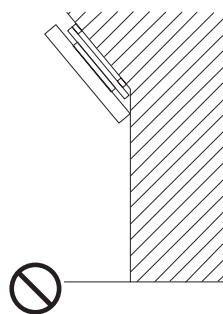
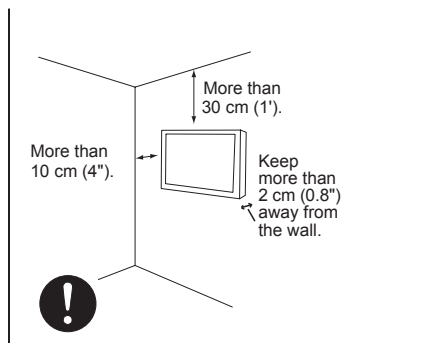
- For Wall Mount assembly; please refer to the Installation Manual of the Wall Mount Unit.

- The screw type :Thread ISO M6 (Metric type, do not use Standard type).



Insertion length (B) of the screws must be within 8.5~10.5 mm. If the length is less than 8.5 mm, the weight can not be maintained. If the length is more than 10.5 mm, a space is created between the Wall Mount Bracket and the LCD Television. This length is **very important**.

STEP (3) : TIPS TO CONSIDER FOR THE LOCATION OF THE LCD TELEVISION.



- Do not block the ventilation holes. In addition please keep a certain distance around and make sure not to obstruct ventilation. Blocking the ventilation holes might cause fire or defect.

- If you purchased a Wall Mount bracket, please ask for a professional installation. Do not install by yourself.
- This LCD unit features an advanced ventilation system configured for vertical installation. A knowledgeable and experienced professional technician can perform other mounting or installation orientations (e.g., horizontal, tilted) **provided that** you specifically inform the technician of the unit's specialized ventilation needs. Call 800-HITACHI for additional info and guidance.

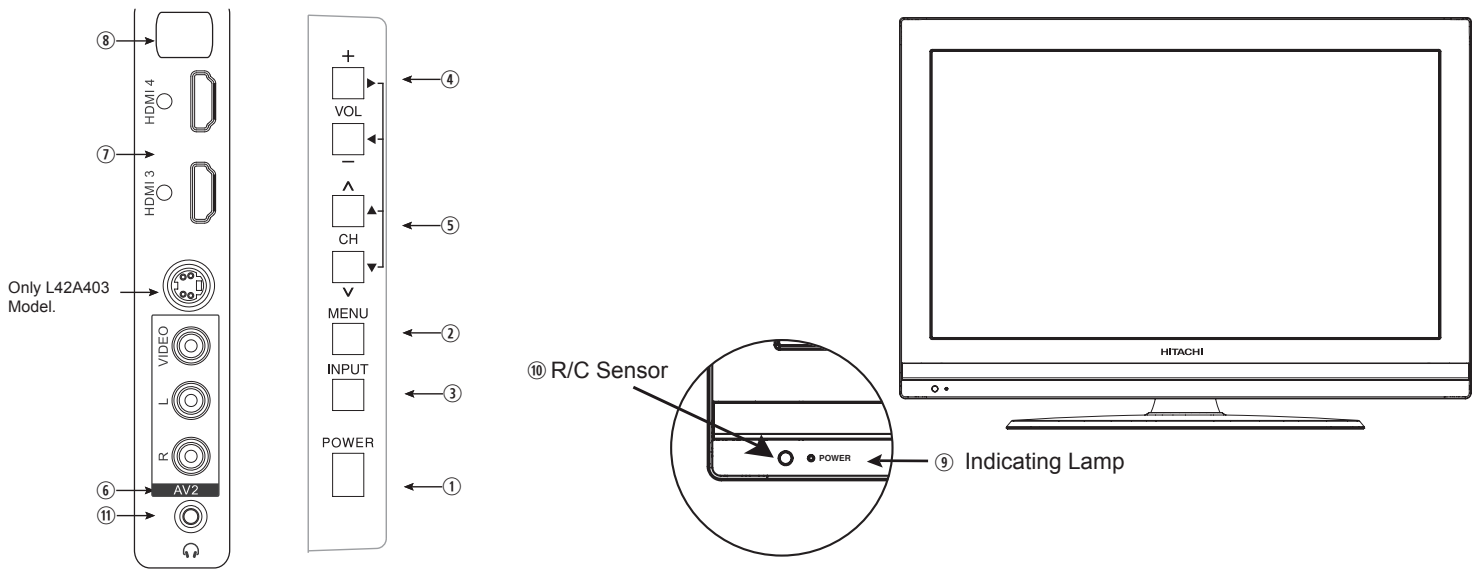


Although this LCD Display Panel can be installed using a variety of third party wall mounting brackets/devices, such third party brackets/devices have not been tested or approved by Hitachi for use or compatibility with this LCD Display Panel. Accordingly, Hitachi accepts no responsibility or liability for any injuries or property damage resulting from the use of such third party brackets/devices. Hitachi strongly advises that any installation of this LCD Display Panel using wall mounting brackets/devices be performed only by a qualified and experienced television installation technician who has completed a thorough evaluation of:

- a) the weight-bearing strength and stability of the intended wall mount surface; and
- b) the weight-bearing strength and compatibility of the intended wall mount brackets/device.

Side Panel Jacks & Controls

FIRST TIME USE



① POWER button

This power button is for turning ON the LCD TV, in order to turn the TV On, the standby indicator must be lit red. If the indicator is off, plug the power cord into the AC wall outlet.

② MENU button

This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote. This button also serves as the Return button when in the MENU system.

③ INPUT button

Press this button to access the INPUT menu.

④ VOLUME (+/-) level

Press these buttons to adjust the sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left and right buttons when in the Menu system.

⑤ CHANNEL selector

Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down (▼) and up (▲) buttons when in MENU mode.

⑥ AV 2 (SIDE) JACKS

AV2 provide composite Video and S-Video (Only for L42A403) jacks for connecting equipment with this capability, such as a DVD player, Game Console or Camcorders.

⑦ HDMI-3 & HDMI-4

Use these side HDMI inputs for AV equipment such as Set-Top-Boxes or DVD players equipped with an HDMI output connection (see page 14 for reference).

⑧ USB UPGRADE SLOT

This USB slot is for future software upgrades.

⑨ POWER light indicator

To turn the TV ON, press the Power button (①). A red stand-by indicator lamp located on the lower left corner of the front bezel has to be illuminated in order to turn ON the LCD TV.

Indicating Lamp	Power Status	Operating
Lights Red	OFF (Stand-by)	When the LCD TV is plugged to the AC line.
Lights Blue	ON	TV Power is ON; picture is shown.
Quickly Blinking Red	ON	The TV is powering OFF. It will soon be in the Off (Stand-by) state.
Slowly Blinks Red	ON (Stand-by)	TV is in the RGB input and has been without an input signal for 15 mins. TV will resume after the input signal is detected.

REMOTE CONTROL sensor

⑩ Point your remote at this area when selecting channels, adjusting volume, etc.

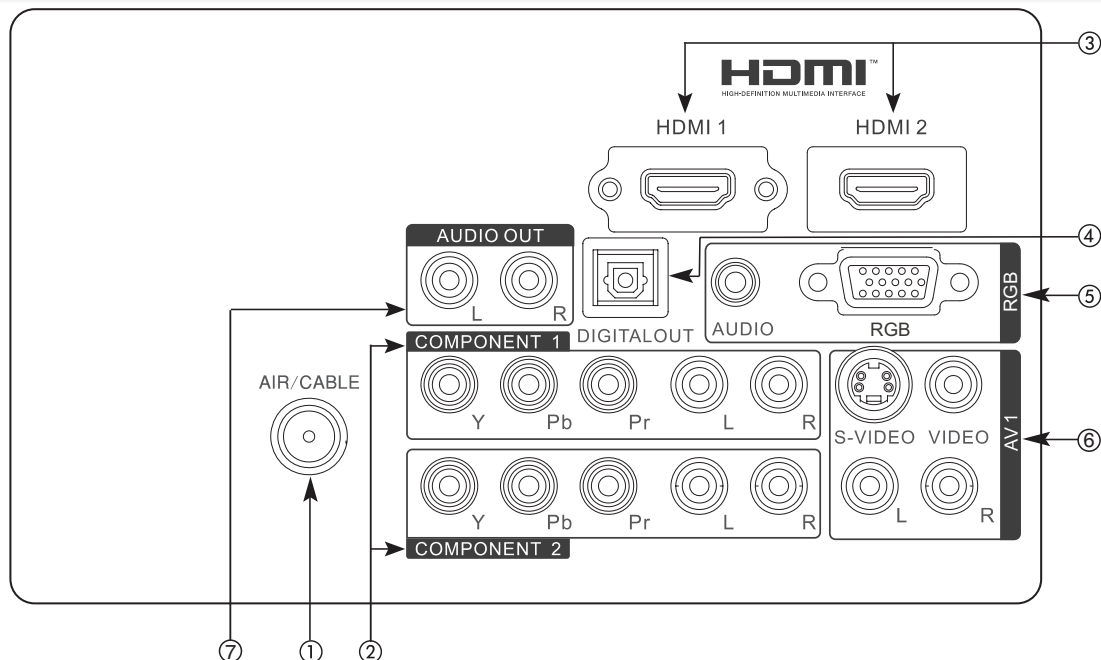
NOTES

- Your HITACHI LCD TV will not show any picture if there is no video input when AV1, AV2, Component1 or 2, or HDMI 1, 2, 3 or 4 is selected. Instead a message will indicate "No Signal" and the Power Light will remain Blue until the TV is turned off or in Stand-by mode (lights red) when not in use.
- The Remote Control can turn the TV ON/OFF as well as turning ON/OFF any compatible HDMI CEC devices.

Headphone jack

⑪ Use this jack to connect headphones.

Rear Panel Jacks



① Antenna Input

To switch between Cable and Air, go to the Channels Menu option to change the signal source CABLE or AIR (see page 33).

② Component: Y-PbPr and Audio Inputs

Component 1 and 2 provide Y-PbPr and Audio jacks for connecting equipment with this capability, such as a DVD player or Set Top Box.

NOTES

- Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's Pb input and the components R-Y output to the TV's Pr input.
- Your component outputs may be labeled Y-CbCr. In this case, connect the component Cb output to the TV's Pb input and the component CR output to the TV's Pr input.
- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PbPr inputs (see page 24).

③ HDMI 1, 2 (High Definition Multimedia Interface)

ABOUT HDMI – HDMI is the next-generation, all digital interface for consumer electronics. HDMI enables the secure distribution of uncompressed high-definition video and multichannel audio in a single cable. Because digital television (DTV) signals remain in digital format, HDMI assures that pristine high-definition images retain the highest video quality from the source all the way to your television screen. Use the HDMI input for your AV equipment such as Set-Top-Boxes or DVD players equipped with an HDMI output connection.



HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

④ Digital Out (Optical Digital Audio)

This jack provides Digital Audio Output from a HDMI source or digital program channel to your audio device that is RAW and PCM compatible, such as an audio amplifier.

NOTE

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

⑤ RGB and AUDIO for Personal Computers (PC)

Use the RGB/Analog Audio Input terminal for connecting a PC or Laptop using a RGB cable (D-sub 15 pin) to your LCD TV. Please see page 49 for compatible resolutions.

⑥ Composite AV1 JACKS

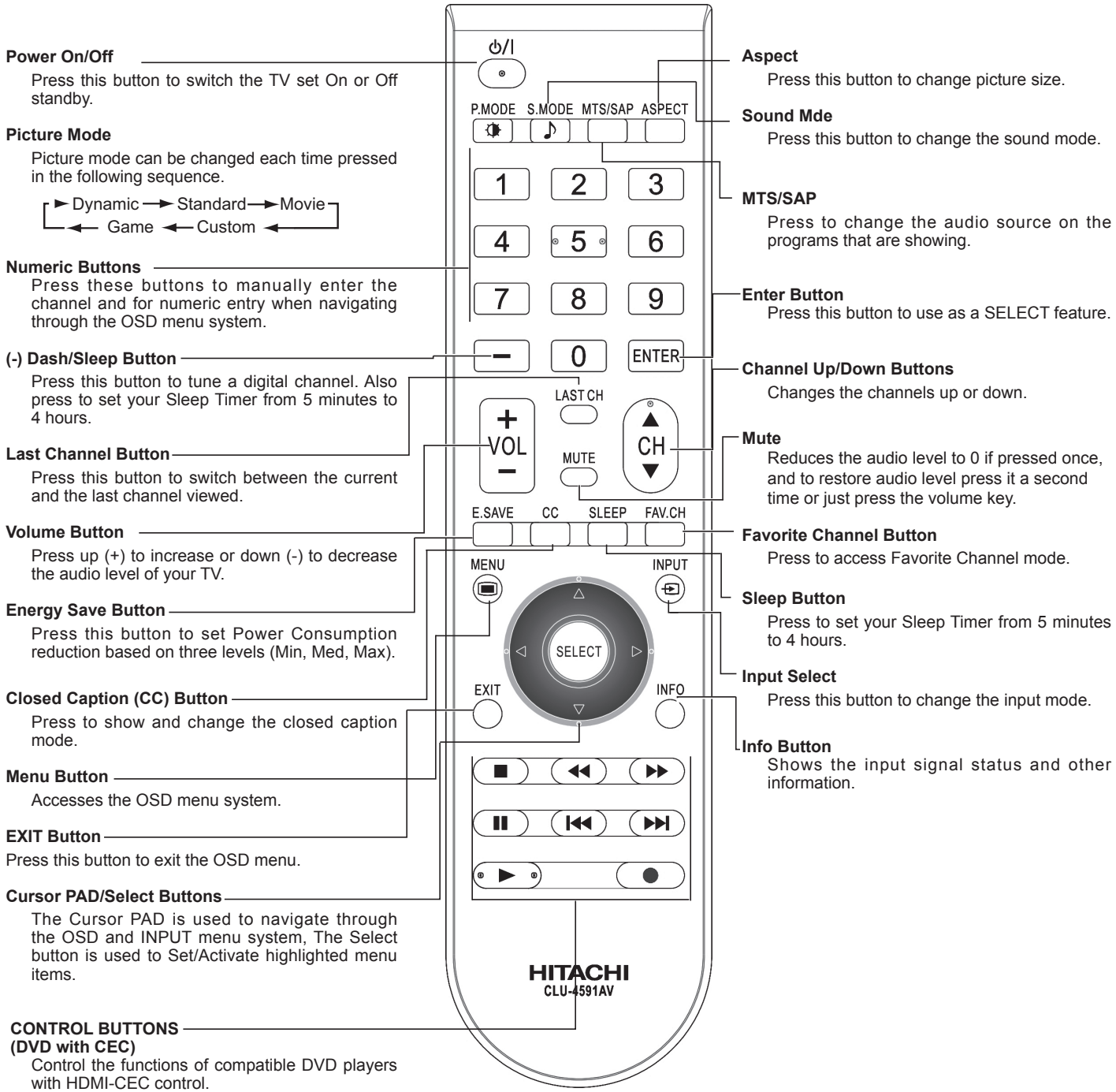
AV1 input provides composite Video and S-Video jacks for connecting equipment with this capability, such as a DVD player, Game Console or Camcorders.

⑦ Audio Out jack

This jack provides stereo audio output from your TV to your audio device, such as an audio amplifier.

Quick Reference Remote Control Buttons and Functions

In addition to controlling all of the functions on your Hitachi LCD TV, the new remote control is designed to operate different types of compatible HDMI CEC DVD Players, For HDMI CEC details please see page 31.



- NOTES**
- The TV's remote control sensor is located on the left bottom corner of the TV frame. To control TV functions, please point the remote control directly at the sensor for best results.
 - The pause key "II" on the Remote Control can be use to Freeze the picture on the screen, in case that this key is pressed by accident, please press it one more time to restore the moving picture

Quick Setup Guide

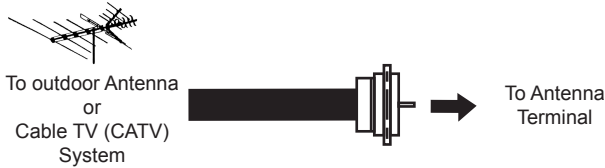
Perform the following steps to quickly setup your new Hitachi LCD Television Set.

1. ANTENNA CONNECTION

Unless your LCD Television is connected to a cable TV system or to a centralized antenna system, a good outdoor color TV antenna is recommended for best performance. However, if you are located in an exceptionally good signal area that is free from interference and multiple image ghosts, an indoor antenna may be sufficient.

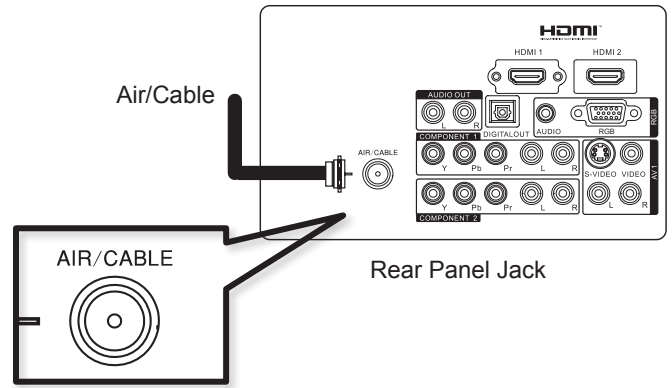
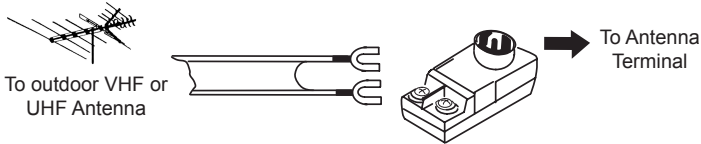
a). VHF (75-Ohm) antenna/CATV (Cable TV)

When using a 75-Ohm coaxial cable system, connect the CATV coaxial cable to the AIR/CABLE (75-Ohm) terminal. Or if you have an antenna, connect the coaxial cable to the same AIR/CABLE terminal.



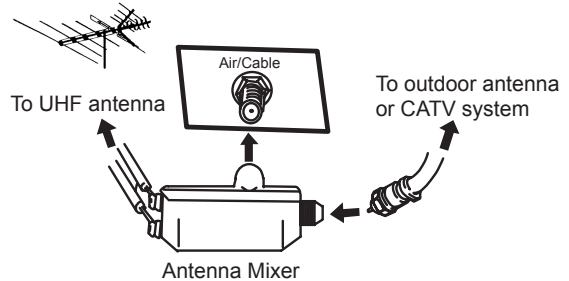
b). VHF (300-Ohm) antenna/UHF antenna

When using a 300-Ohm twin lead from an outdoor antenna, connect the VHF or UHF antenna leads to screws of the VHF or UHF adapter. Plug the adapter into the antenna terminal on the TV.



c). When both VHF and UHF antennas are connected

Attach an optional antenna cable mixer to the TV antenna terminal and connect the cables to the antenna mixer. Consult your dealer or service store for the antenna mixer.

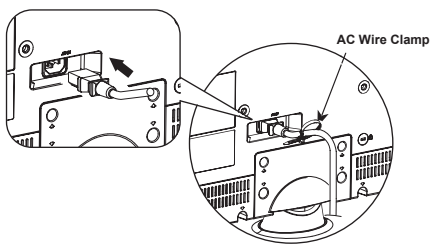


NOTE

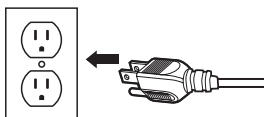
Connecting a 300-Ohm twin lead connector may cause interference. Using a 75-Ohm coaxial cable is recommended.

2. CONNECT YOUR NEW HITACHI LCD TV TO THE POWER SOURCE

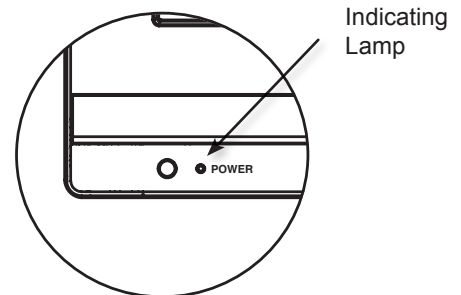
a). Connect the power cord to your TV set and secure it with the cable tie (see page 7) .



b). Connect the power cord to the AC wall outlet .



c). The Indicating Lamp will light red (Standby mode) and then light blue (image displays).

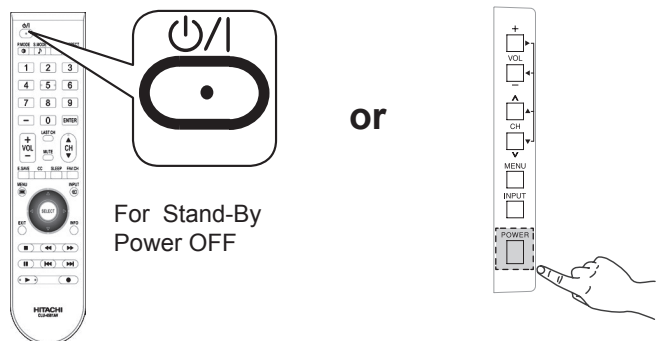


3. POWER ON/OFF YOUR NEW HITACHI LCD TV.

Press the POWER button on the Remote Control or the POWER button on the Side Control Panel to power on/off the LCD TV.

NOTE

If the Indicating lamp is OFF, the Power Button on the Remote Control will not operate. Please make sure



4. FOLLOW THE TV SETUP WIZARD INSTRUCTIONS ON NEXT PAGE.

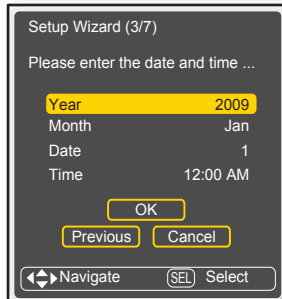
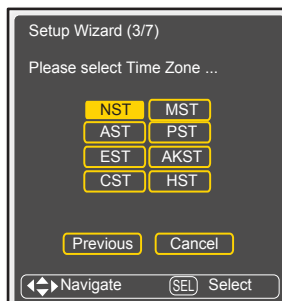
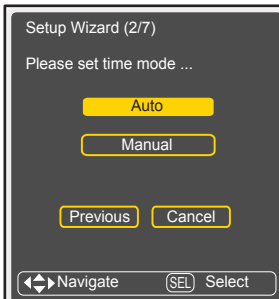
TV Setup Wizard

Your Hitachi LCD television has a TV Setup Wizard feature which has the ability to help you easily setup the first time you turn on your TV and find the channels available in your area. Please follow the instructions below.

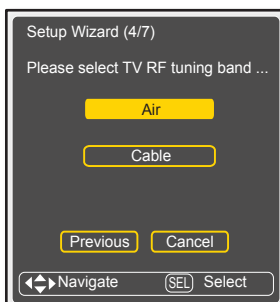
The First time you turn on your Hitachi LCD TV the Initial Settings screen will appear. The first step to set is the language of your TV On screen Menu. Select the language that you prefer. Use the ▲ and ▼ CURSOR to select and press the SELECT button on the remote control.



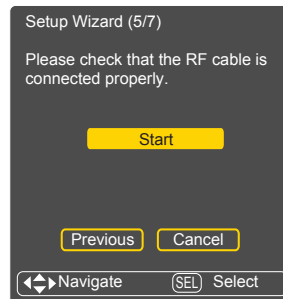
The second and third steps are to set the date and time. There are two options ; one for automatic setting in which you will select only the time zone in your area and the second option is a manual setup for the date and time. Use the CURSOR pad to select and change the options with the remote control.



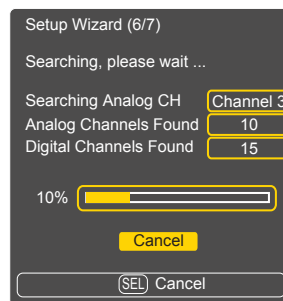
The fourth step is designed to find broadcasting or cable channels. There are two options, Air for an external antenna and Cable for a cable system provider in your home. Use the ▲ and ▼ CURSOR to select and press the SELECT button on the remote control.



Step 5 will start the scanning feature to find the channels available on the antenna or cable system. Press the SELECT button on the remote control to start the channel scan.



The sixth step is the scanning process of the channels, it shows first the scan of analog channels and then the digital channels. The scanning process will show how many channels have been found. Please be patient while the scanning process searches for the available channels in your area. If you wish to cancel the process, press the SELECT button on the remote control to cancel the process.



- NOTES**
- Once the user cancels the wizard, the wizard will not be shown again.
 - If you see the screen above and if you did not connect your Antenna cables to your TV, turn off your TV, unplug the power cord and connect your cables according to the applicable connections in the "First Time Use" section of this Operating Guide.
 - After completing the TV Setup Wizard, these screens will not appear again. For updating and adding the channels available in your area refer to the New Channel Scan feature on page 33.

The last step is the completion of process, it shows a brief message and you are ready to view TV programing. This final message will be shown for a few seconds and then the first detected channel will be tuned in. You may also press EXIT on the remote control to tune to the first detected channel.



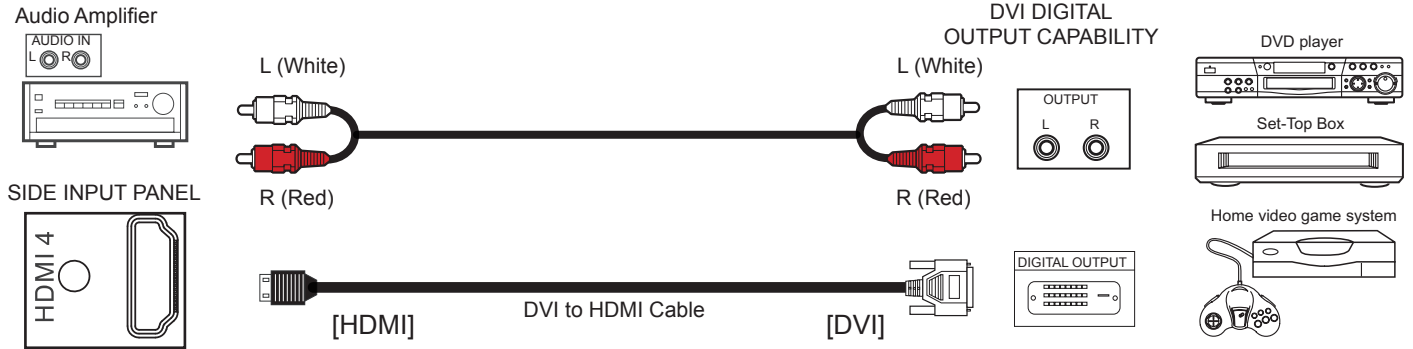
Side Panel Connections

The following connection diagrams are offered as suggestions. However, you may need to modify them to accommodate your particular assortment of components and features. For best performance, video and audio cables should be made from coaxial shielded wire. There are 2 SIDE panel HDMI jacks provided as a convenience to allow you to easily connect HDMI or DVI signals from a DVD, Set-Top-Box, Video Game as shown in the following examples (When a DVI product is connected, the use of a separate audio device is necessary for audio, use an Audio Amplifier and connect to the Audio In jacks).

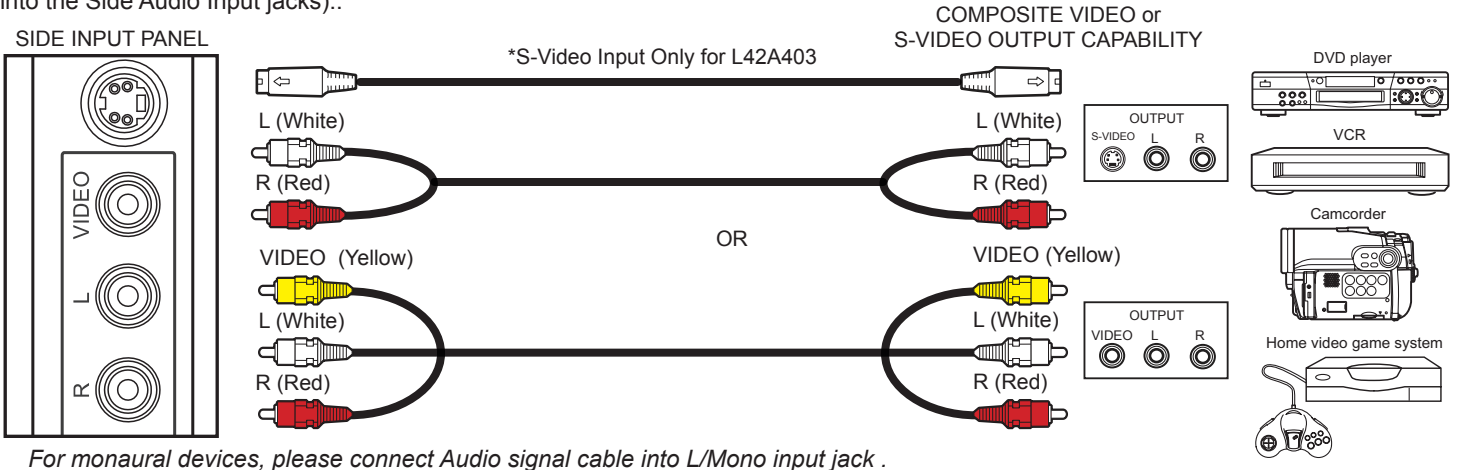
A) Connecting HDMI signal



B) Connecting DVI signal



The SIDE panel VIDEO and S-VIDEO (Only L42A403) jacks are provided as a convenience to allow you to easily connect a Camcorder, DVD, Video Game and a VCR as shown in the following examples. (When connecting an S-VIDEO device, also connect the audio output into the Side Audio Input jacks):



For monaural devices, please connect Audio signal cable into L/Mono input jack.

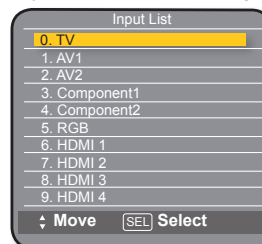
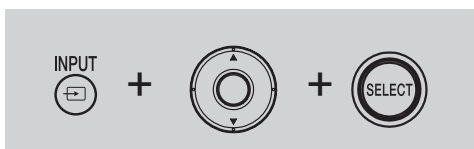
NOTES

- Completely insert connection cord plugs when connecting to side panel jacks. If you do not, the played back picture may be abnormal.
- Cable plugs are often color-coded. Match colors of plugs and terminals, i.e. connect red to red, white to white, etc.
- When making video connections, connect S-Video only or Video only. If both are connected, S-Video takes priority.

The exact arrangement you use to connect the VCR, Camcorder, DVD player, or HDTV Set-Top-Box to your LCD TV is dependent on the model and features of each component. Check the operating guide of each component for the location of video and audio inputs and outputs.

Before Operating External Video Sources

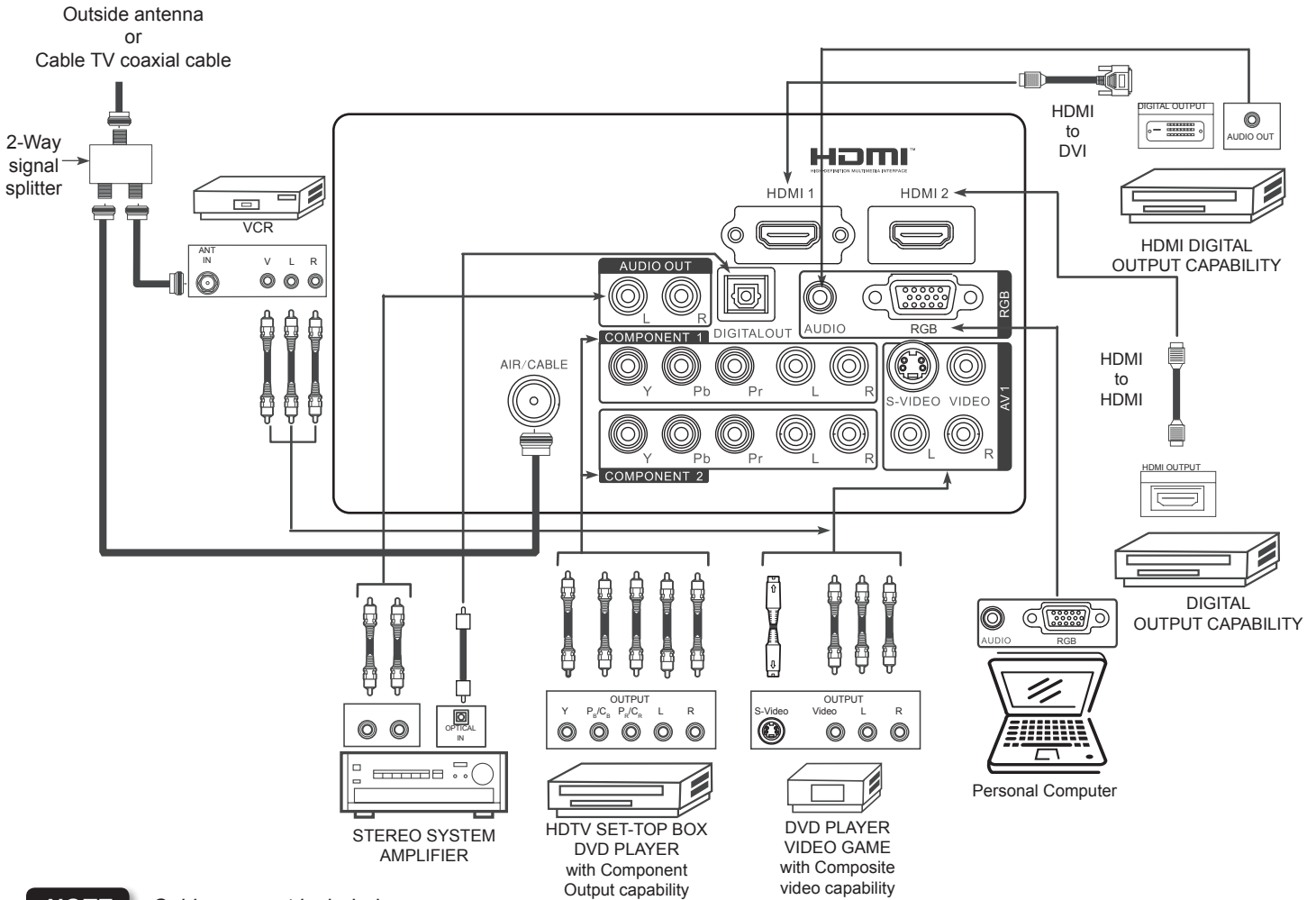
Connect an external source to one of the INPUT terminals, then press the INPUT button to show the Inputs List. Use the CURSORS (▲ and ▼) to select the Input of your choice. Then press the SELECT button to confirm your choice (see page 19).



Example: Selecting the TV (Air/Cable) Input and highlight "0:TV".

Rear Panel Connections

FIRST TIME USE



NOTE Cables are not included.

TIPS ON REAR PANEL CONNECTIONS

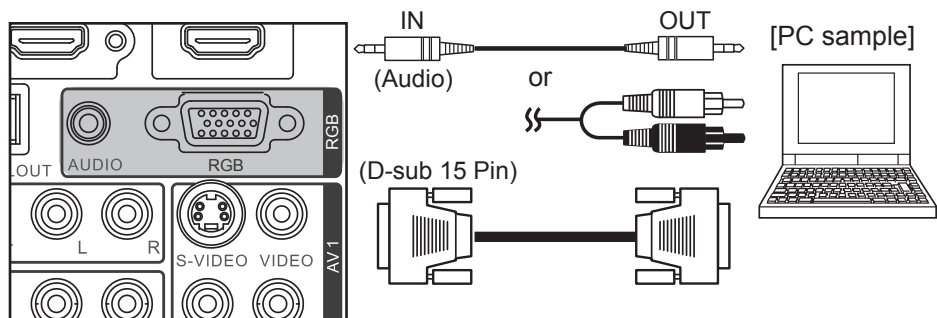
- ◆ COMPONENT Y-PbPr (COMPONENT 1 & 2) or HDMI (1 & 2) connections are provided for high performance DVD players, VCRs etc. that have this feature. Use these connections in place of the standard video connection if your device has this feature.
- ◆ If your device has only one audio output (mono sound), connect it to the left audio jack on (L) the Rear Panel.
- ◆ Refer to the operating guide of your other electronic equipment for additional information on connecting your hook-up cables.
- ◆ Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack.
- ◆ Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's Pb input and the components R-Y output to the TV's Pr input.
- ◆ Your component outputs may be labeled Y-CbCr. In this case, connect the components Cb output to the TV's Pb input and the components Cr output to the TV's Pr input.
- ◆ It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PbPr inputs. (See page 24).
- ◆ 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.

- NOTES**
- Completely insert all connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
 - Cable plugs are often color-coded. Match colors of plugs and terminals, i.e. connect red to red, white to white, etc.

Connecting a Personal Computer PC .

Use the RGB PC connection terminal and the Analog Audio Input terminals to connect the PC.

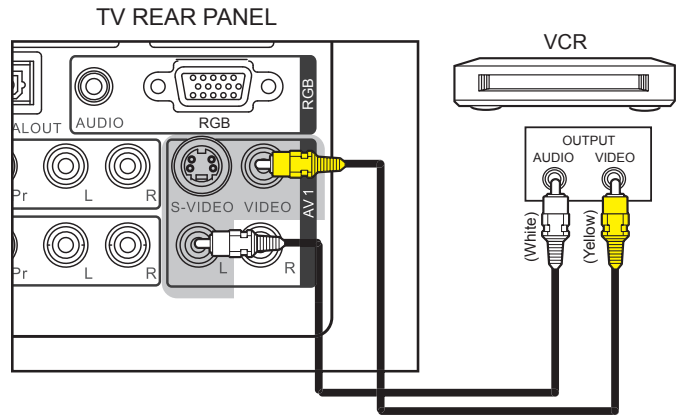
1. Connect the RGB (D-sub 15 Pin) and AUDIO cable from the RGB and AUDIO OUT jack of the PC to the RGB and AUDIO jack, as shown on the Rear Panel on the right.
2. Press the INPUT button, then select RGB from the INPUTS menu to view the signal from the PC.



Rear Panel Connections

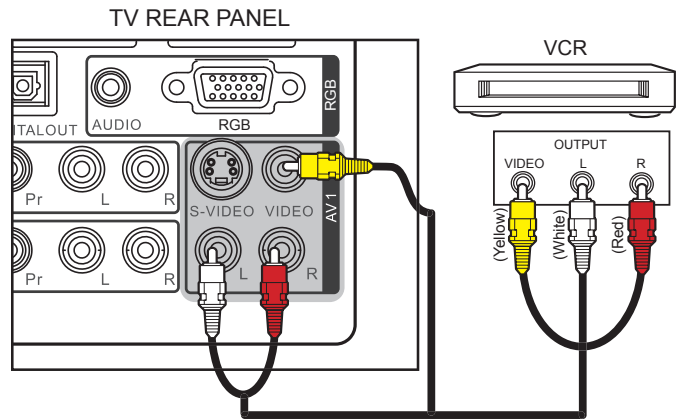
CONNECTING A VIDEO AND MONAURAL AUDIO SOURCE TO AV 1.

1. Connect the VIDEO and AUDIO cable from the VIDEO and AUDIO OUT jack of the VCR to the AV1 (VIDEO) and L(AUDIO) jack, as shown on the Rear Panel on the right
2. Press the INPUT button, then select AV1 from the INPUTS menu to view the program from the VCR.
3. Select Audio menu, set Sound mode to "Custom", and set "SRS Trusurround HD" to "On".



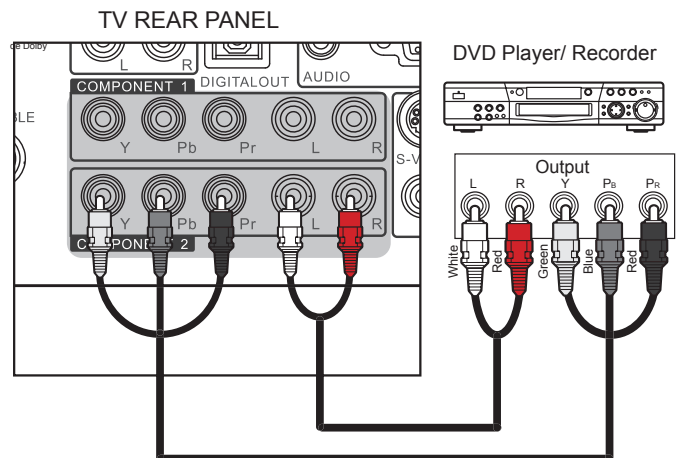
CONNECTING A VIDEO AND STEREO AUDIO SOURCE TO AV1.

1. Connect the VIDEO and AUDIO cables from the VIDEO OUT and AUDIO OUT jacks of the VCR to the AV1 (VIDEO)jacks. A VCR connection to Rear Panel AV1 example is shown on the right.
2. Press the INPUT button, then select AV1 from the INPUTS menu to view the program from the VCR.



CONNECTING A COMPONENT AND STEREO AUDIO SOURCE TO COMPONENT 1 or 2: YPbPr

1. Connect the Y, Pb/Cb, Pr/Cr and AUDIO cables from the Y, Pb/Cb, Pr/Cr OUT and AUDIO OUT jacks of the DVD PLAYER or HDTV Set-Top-Box to the COMPONENT 1 or 2 YPbPr and AUDIO jacks. A DVD connection to Rear Panel COMPONENT 2 example is shown on the right.
2. Press the INPUT button, then select **COMPONENT 1** or **2** from the INPUTS menu to view the program from the DVD player or HDTV Set-Top Box.



NOTES

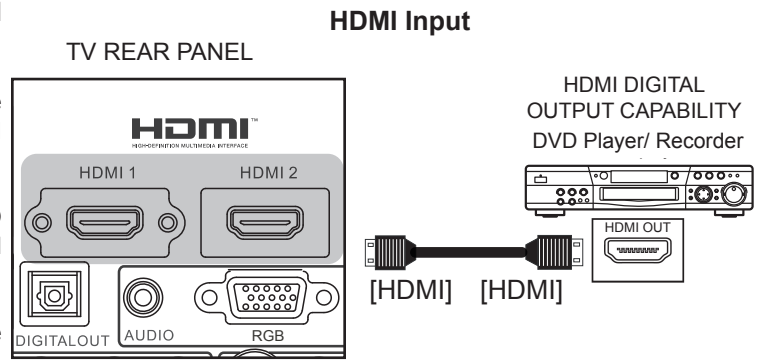
- Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- Cable plugs are often color-coded. Match colors of plugs and terminals, i.e. connect red to red, white to white, etc.
- To return to the last channel viewed, select "0.TV" from the INPUTS menu.

Rear Panel Connections

FIRST TIME USE

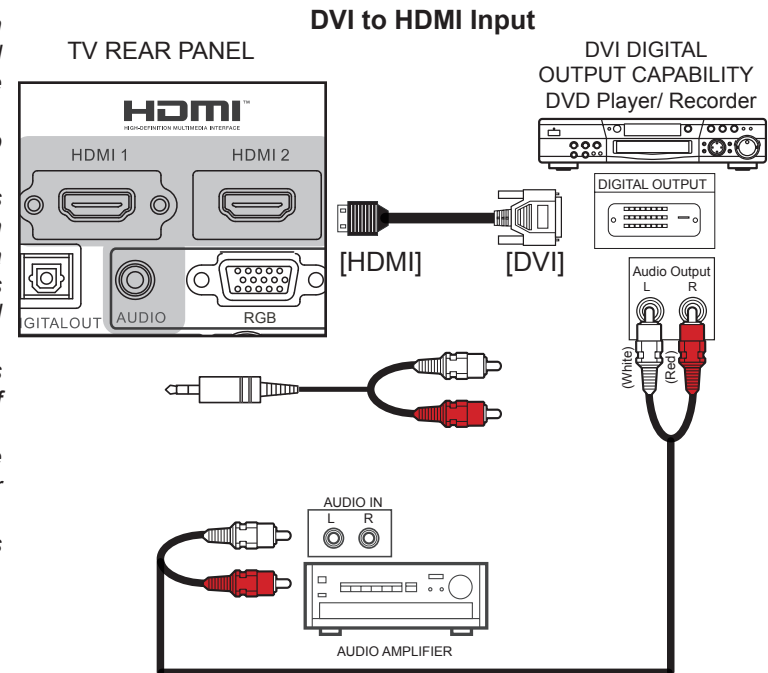
CONNECTING AN EQUIPMENT SOURCE WITH HDMI OR DVI CAPABILITY TO HDMI 1, HDMI 2

1. Connect the HDMI or DVI to HDMI connection cable from the output of the HDTV set top box or DVD player to the HDMI input as shown near the Rear panel at right.
2. With DVI output, connect the audio cables from the AUDIO OUT jack of the HDTV set top box or DVD player to an external audio amplifier as shown to the right below.
3. Press the INPUT button, then select HDMI 1 or 2 to view the program from the HDTV SET-TOP BOX or DVD player.



NOTES

- Completely insert the connection cord plugs when connecting to the rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- When using a DVI to HDMI cable, connect the Audio Out L and R cables to an external audio amplifier.
- The HDMI input on HDMI 1, 2, 3 and 4 contains the copy protection system called High-bandwidth Digital Content Protection (HDCP). HDCP is a cryptographic system that encrypts video signals when using HDMI connections to prevent illegal copying of video contents.
- HDMI is not a "NETWORK" technology. It establishes a one-way, point-to-point connection for delivery of uncompressed video to a display.
- The connected digital output device controls the HDMI interface, so proper set-up of device user settings determines final video appearance.
- Only HDMI1 can support DVI audio input when it is connected to the PC audio input terminal.

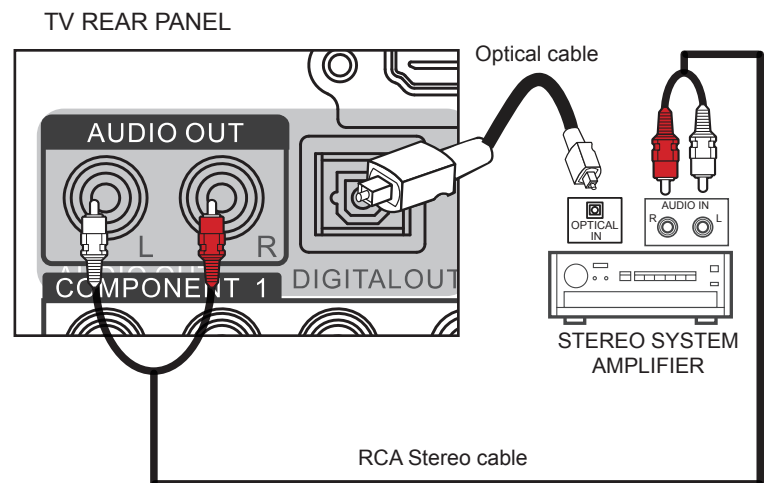


Note : An external Audio amplifier can be use for the same purpose.

CONNECTING AN EXTERNAL AUDIO AMPLIFIER

To monitor the audio level of the LCD TV to an external audio amplifier, connect the system as shown on the right. The "OPTICAL OUT" and "AUDIO OUT" from the Rear Panel is a fixed output. The Volume of the amplifier is controlled by the amplifier, not by the LCD Television. The OPTICAL OUT terminal outputs all audio sources to equipment with Optical IN capability.

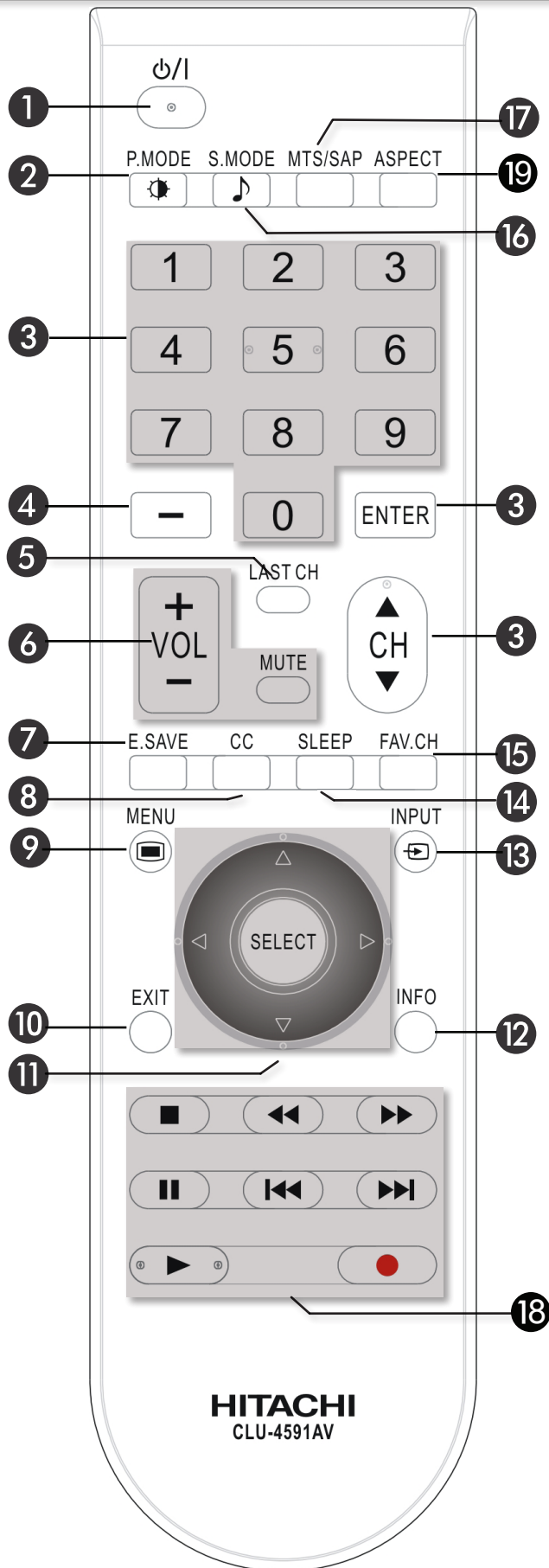
1. Connect an optical cable from the OPTICAL OUT to the OPTICAL IN of a separate Stereo System Amplifier as shown on the Rear Panel on the right.
2. Connect an RCA stereo cable from the AUDIO OUT to the Audio input of a separate Stereo System Amplifier as shown on the Rear Panel on the right.



NOTES

- Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- Cable plugs are often color-coded. Match colors of plugs and terminals, i.e. connect red to red, white to white, etc.
- To return to the last channel viewed, select "0.TV" from the INPUTS menu.

The Remote Control



1 POWER button

Press this button to turn the TV set on or off.

2 Picture mode button

Press this button to toggle between Dynamic, Standard, Movie, Custom and Game picture mode settings. Select Dynamic for automatic brightness and contrast adjustment. Select Standard for day time viewing with more brightness and contrast to compete with room light. Select Movie for viewing with less brightness and contrast for a more detailed picture. Select Custom for viewing with your own brightness and contrast picture settings. Game for automatic brightness and contrast adjustment when playing video games.(see page 24 for settings changes).

3 CHANNEL SELECTOR / ENTER buttons

The CHANNEL SELECTOR buttons are used to select channels, lock access code, etc. Use the CHANNEL SELECTOR buttons to enter one, two, or three numbers to select channels. Enter 0 first for channels 1 to 9, or simply press the single digit channel you wish to tune then press the ENTER button for the TV to tune. Channel selection may also be performed by CHANNEL (CH) UP (▲) or CHANNEL (CH) DOWN (▼).

4 (-) DASH /Sleep Button

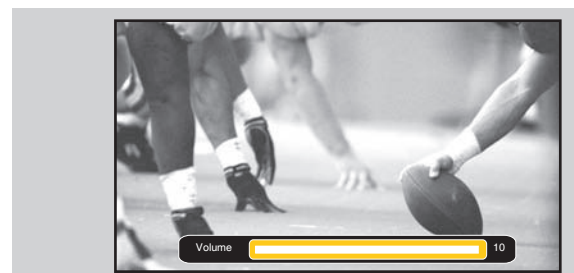
Use the (-) DASH button with the CHANNEL SELECTOR buttons to enter Digital Channels that have subchannel numbers indicated by (-) DASH (example 15-1). Also press to Set the Sleep Timer from 5 minutes to 4 hours.

5 LAST CHANNEL button

Press this button to toggle between the current and last channel viewed.

6 VOLUME (VOL), MUTE button

Press the VOLUME button (+ or -) until you obtain the desired sound level.
Press the MUTE button to turn the sound off completely (MUTE). To restore the sound, press the MUTE button one more time, or VOL UP (+).





How to Use the Remote to Control your TV

Closed Captioning will display automatically when MUTE is on and Closed Caption is set to With Mute (see page 30). When the TV power is turned off at a volume level 16 or greater, the volume level will default to 15 when the TV is turned on. However, if it is set to a level 15 or less, the volume level will be at the level it was set when the TV is turned off.

7 E.SAVE (ENERGY SAVE) button

Use this button to choose power consumption reduction settings based on 3 levels (MIN., MEDIUM, MAX).

8 CLOSED CAPTIONS (CC) button

Use this button to display the dialogue, narration, and/or sound effects of a television program or home video which are displayed on the TV screen when available. Your local TV program guide denotes these programs as  or .

9 MENU button

The MENU button will start the On-Screen Display.

10 EXIT button

This button will exit all On-Screen Displays.

11 CURSOR Pad /SELECT button

All the On-Screen Display features can be set or adjusted by using the CURSOR Pad and the SELECT button, except for numeric entries. Press the CURSOR Pad toward desired direction and press the SELECT button to select.

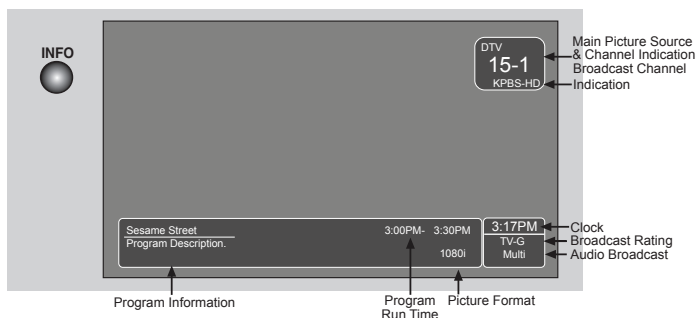
12 INFO button

Press this button when you want to check the channel being received, the picture source, if the channel has stereo (ST) or second audio program (SAP), the time, and CHANNEL ID.

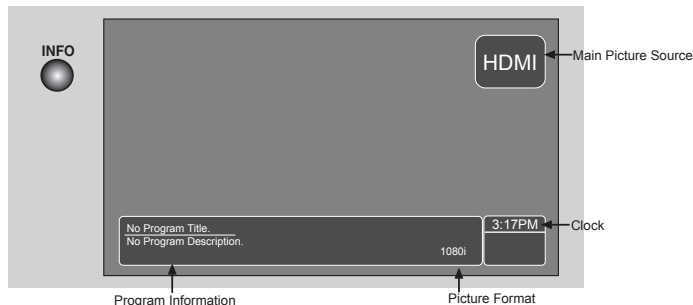
ANALOG CHANNELS



DIGITAL CHANNELS



VIDEO INPUTS

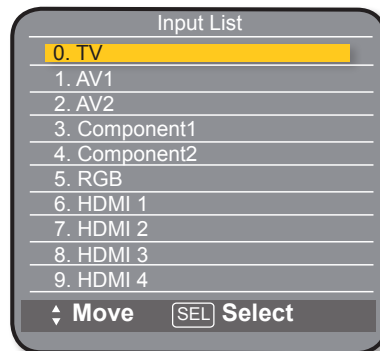
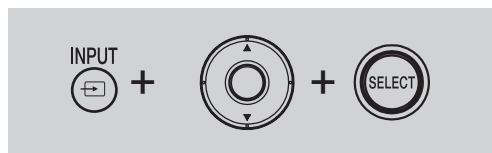


NOTES

- Press the INFO button again or the EXIT button to return to normal viewing.
- The Aspect INFO will not be shown when the INFO key is pressed.

INPUT button

- 13 Press this button to access the INPUTS menu. Use the CURSOR and SELECT buttons to scroll and select the inputs that are being used. Pressing the INPUT button repeatedly will also cycle through the Inputs menu items. Then press the SELECT button or wait 4 seconds to automatically select the highlighted input.



- | | |
|---------------|---------------------------------------|
| 0. TV | Watch TV from an Air or Cable signal. |
| 1. AV1 | Select to choose AV1 Input |
| 2. AV2 | Select to choose AV2 Input. |
| 3. Component1 | Select to choose Component Input 1. |
| 4. Component2 | Select to choose Component Input 2. |
| 5. RGB | Select to choose PC input. |
| 6. HDMI 1 | Select to choose HDMI 1 Input. |
| 7. HDMI 2 | Select to choose HDMI 2 Input. |
| 8. HDMI 3 | Select to choose Side HDMI 3 Input. |
| 9. HDMI 4 | Select to choose Side HDMI 4 Input. |

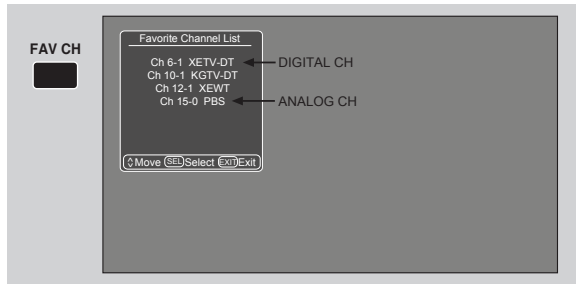
SLEEP button

- 14 Press this button to set the Sleep Timer from 5 minutes to 4 hours.

How to Use the Remote to Control your TV

15 FAV CH button

Press the FAV CH button to display the Favorite CH List. You have to first setup the Favorite Channels in the Channels Menu in order display the list. Press the FAV. CH key on the remote control to display the list and select the desired channel using the cursor keys and then press SELECT to view.



16 S. MODE button

Press this button to change the sound mode. There are 4 modes available, Custom, Standard, Movie and News. For Standard, Movie and News the options Bass Treble and SRS TruSurround HD are not available (grey color). Selecting the Custom Mode allows you to set the audio options to your preference.

17 MTS/SAP button

Press to change the audio source on the programs that are showing. For analog channels the signal choices (if available) are Stereo, SAP, and Mono. For digital channels this button will change the language (when available). (English, Spanish, etc.).

18 CEC Device buttons

These buttons are for controlling devices with Consumer Electronics Control (CEC) through the HDMI connection like Blu Ray or DVD players, DVR, STB.

NOTE For some devices these keys are not available to control through the TV and HDMI connection ; please refer to the device operating guide for more information.

How to Use the Remote to Control your TV

19 ASPECT button

Press this button to quickly change the picture format ASPECT ratio. Depending on the input ratio allows you to adjust the images through the following options.

AUTO

Use this aspect mode to have the aspect mode change automatically by signal detector.

4:3

Use this aspect mode to display conventional (4:3) images. Side panels (black areas) are placed to the left and right of the image to preserve the original aspect ratio of the source.

16:9

Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio showing 95% of the size.

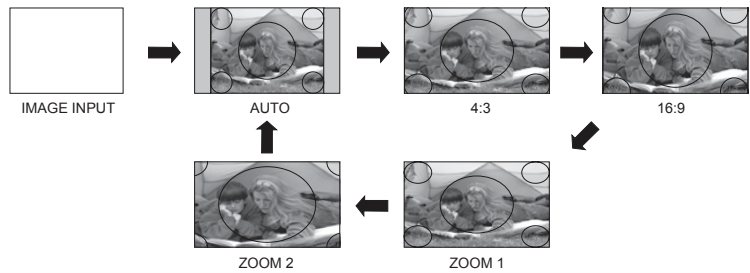
Full

Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio showing 100% of the size.

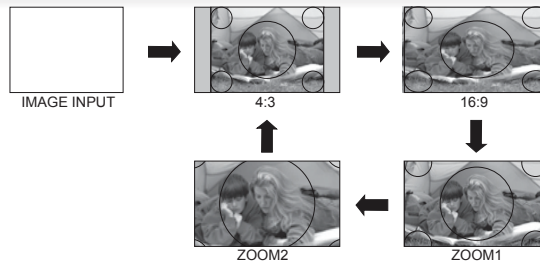
ZOOM1/ZOOM2

Use these aspect modes to zoom in on to reduce the black bars sources.

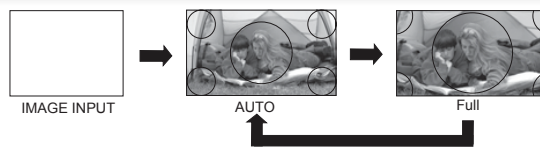
- AIR/CABLE - Analog Signal
- AIR/CABLE - Digital Signal
- Component



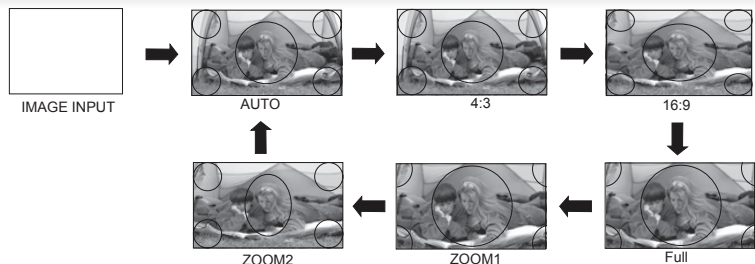
- AV



- HDMI - VGA
- DVI - VGA
- RGB



- HDMI - 1080p/1080i/720p/480p/480i
- DVI - 1080p/1080i/720p/480p/480i

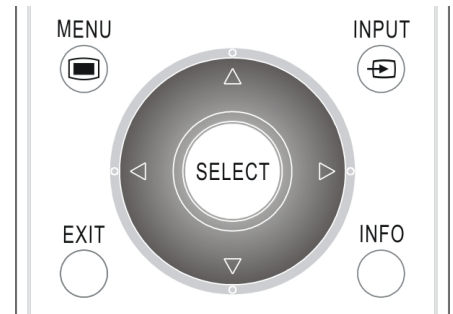


NOTES

- Each input has a memory for the Aspect setting. Changing the aspect on one input will not affect the aspect settings on other inputs.
- When displaying "Full" you may notice noise at the top of the picture. Select the "16:9" aspect mode to remove the noise. The noise is normal for some signals.
- See page 50 for Aspect availability according to signal format in use.

On-Screen Display

1. Press MENU on the remote control to display the different features on your Hitachi LCD TV.
2. Use the CURSOR PAD (buttons, ▲, ▼, ◀ and ▶) and highlight a different feature of the On-Screen Display menu. Press the SELECT button to select.
3. Press EXIT on the remote control to quickly exit from a menu.



This part of the screen shows which selections are available.



NOTE

The On Screen Display (OSD) for the different submenus shown in the following pages are for illustration purposes only, there may be slight differences from the actual appearance of the OSD of your Hitachi LCD TV.

Video

Picture Mode

Select between 5 pictures modes; Dynamic, Standard, Movie, Custom and Game.

Contrast

Adjust picture contrast.

Brightness

Adjust picture brightness.

Color

Adjust color.

Tint

Adjust tint.

Sharpness

Adjust sharpness.

Color Temperature

Set this to High for less intense color with more blue, set to Medium for natural color and set to Standard for warm colors.

Noise Reduction

Reduces conspicuous noise in the picture.

Auto Movie

Select the 3:2 Pull down detection feature Auto/Off. For a film like picture.

Backlight

Adjust to increase or decrease the brightness of backlight.

Aspect Ratio

Choose the picture format aspect ratio.

Reset

Choose to Reset Video Settings to factory settings.

On-Screen Display

Audio

Sound Mode	Selects 4 audio presets (Custom, Standard, Movie, News)
Bass	Adjust the intensity of low frequencies.
Treble	Adjust the intensity of high frequencies.
Balance	Adjust the balance.
Audio Source	Select between three Audio Sources (Stereo, Mono, SAP).
Audio Language	Select Language options if available.
Digital Output	Select Optical Output options.
Internal Speakers	Select internal or external speaker.
Perfect Volume	Adjust volume to be closer in level between channels.
SRS TruSurround HD	Select Surround settings (Off, On)
Reset	Resets all Audio settings the original condition

NOTE

The Audio Language and Digital Output of the Audio OSD are only available for Digital channels.

Setup

Menu Language	Choose English, French or Spanish OSD Language.
Time	Set Clock Settings.
Sleep Timer	Set Sleep Timer intervals (5 minutes ~ 4 hours).
Set Password	Set the password for the Parental control access.
Parental Controls	Ratings system to block various types of programs.
Closed Captions	Feature to turn On/Off closed captions.
Digital Captions	Feature to display DIGITAL dialogue/text.
Digital Captions Options	Feature to change the appearance of the DIGITAL CAPTIONS.
Analog Captions	Feature to display ANALOG dialogue/text.
Energy Options	Select Power Consumption Savings options.
Transparency	Feature to change the OSD Menu transparency.
HDMI-CEC	Set to ON, this feature will enable simplified operation of compatible HDMI CEC components.
Input Labels	Label Video Inputs, VCR, DVD, etc.
Component Options	Adjust the Phase and applies Reset to any adjustments made.
RGB Options	Adjust Horizontal Position, Vertical Position, Clock, Phase and Reset.
Reset AV & Setup	Resets all Audio, Video and Setup settings to the original condition.

Channels

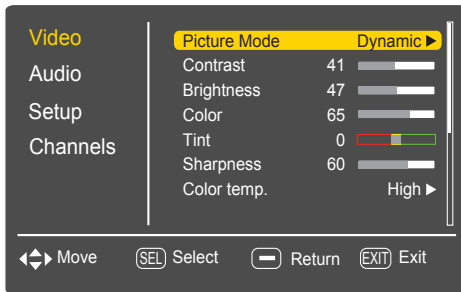
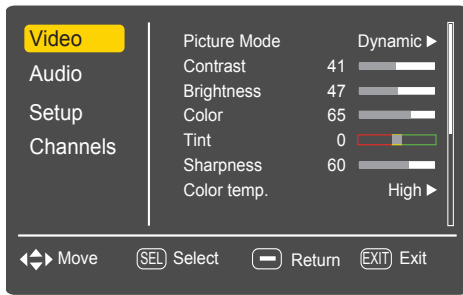
Source	Selects the type of signal to be used Cable or Air.
Signal Strength	Access Signal Meter.
New Channel Scan	Set Auto Channel Scan.
Add Channels to List	Adds Channels to the List (Scanned channels remain the same until New Channel Scan is performed).
Channels List	Set Channel List.
Channels Labels	Set Labels on the channels.
Favorite Channels	Set the favorite channels.

NOTE

The Signal Strength feature of the Channels OSD is only available for Digital (DTV) channels.

Video

Select VIDEO to adjust picture settings and improve picture quality. You can independently customize each of the video inputs to your preference to increase viewing performance and pleasure depending upon the video program being viewed. Adjustments will be applied to Custom settings.



Picture Mode

Use this function to choose from preset picture settings to optimize your TV's performance.

1. Use the CURSOR button ► to select PICTURE MODE settings (Dynamic, Standard, Movie, Custom or Game).
2. Then press the ◀ button to return to the Video menu or press EXIT to quit menu.
3. There are 5 Picture Modes available : Dynamic, Standard, Movie, Custom and Game mode. Dynamic is the factory preset mode for your TV. The only mode that can be changed by adjusting any video setting to your desire conditions is Custom mode. The other modes are preset and can not be change.

NOTE

- For the PC input there are only two Picture modes available Standard and Custom. In this case only Custom can be changed to your desired conditions.
- Video Setting can be set to the user's preference in Game mode (Similar to Custom mode) with the exception of, Auto Movie setting.

Other Video Menu Setting Adjustments

Use the CURSOR PAD ▲ or ▼ to highlight the function to be adjusted.

1. Press the SELECT button or the CURSOR PAD ► to select the function settings.
2. Press the CURSOR PAD ◀ or ► to adjust the function.
3. Press MENU to return to main menu.
4. Press EXIT to quit menu.

Contrast

Use this function to change the overall light output to match the viewing area. Increase for brighter rooms.

Brightness

Use this function to change the overall brightness of the dark areas of 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 Medium for a more natural color or set to Standard for accurate color.

Noise Reduction

The NOISE REDUCTION function automatically reduces conspicuous noise in the picture without degrading picture quality. Set NOISE REDUCTION to OFF if you see individual blocks in the picture.

Auto Movie

The AUTO MOVIE function turns Auto or OFF the 3:2 pull down detection feature. Theatrical movies are shot on film at 24 frames or still pictures per second, instead of 30 frames or 60 fields like video. When film is transferred to video for television viewing, the disparity between the two frame rates must be reconciled. This involves a process known as 3:2 pull down. When AUTO MOVIE is set to Auto your Hitachi LCD Television will activate the circuitry for this special feature to improve video performance when watching interlaced format film based sources. Set to OFF to deactivate this feature.

Backlight

Adjust the brightness of the Backlight for maximum visibility. It changes the intensity of the backlight. Increase for bright rooms and decrease for darker rooms to make the dark areas of the picture black..

Aspect

Use this function to select the Picture Format Aspect Ratio.




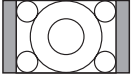
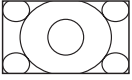

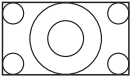

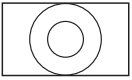

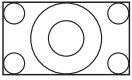
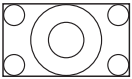
Auto Aspect

Automatically adjust the Aspect Ratio depending on the input signal.

Aspect Modes

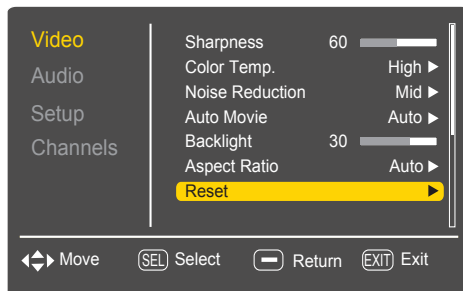
Manually select the Aspect Ratio. There are different aspect ratios available according to the signal in use. See page 50.

Aspect Ratio reference

Input Signal	Display Screen	Display Aspect Recommended	To display suitable screen as follows.
When Watching 4:3 Source:			
 (4:3 Signal)		4:3	Displays 4:3 programs in their original aspect ratio with bars to the left and right of the image.
		16 : 9	Expands a 4:3 aspect ratio program to fill the widescreen 16:9 screen
 (Vista)		Zoom 1	Use this aspect mode to expand letterbox movies to fill the screen. Note that some of the image may not be visible.
 (Cinema)		Zoom 2	Use this aspect mode to fill the screen with very widescreen movies. Note that some of the image may not be viewable in this mode.
When Watching 16:9 Source:			
 (16:9 Signal)		16 : 9	Plays a 16:9 image faithfully showing 95% of the size.
		Full	Use this mode when you want to see 100% of the signal. Note that some signals have noise. In the case of noise use the 16:9 mode.

Reset

This function allows you to Reset the Video Menu Settings of the present input and return it to the Dynamic video mode.



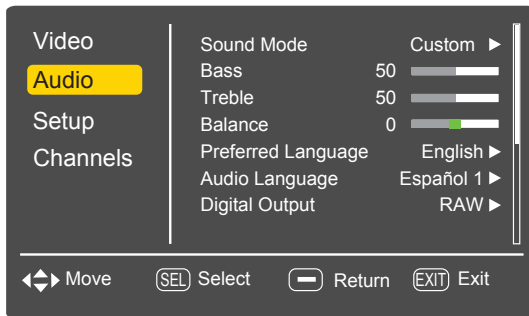
1. Use the CURSOR PAD ▲, ▼ to the highlight functions.
2. Press the SELECT button or CURSOR PAD ► to select Yes or No.
3. Press the SELECT button on the Yes option to execute the reset of the Video settings.

You can customize each of the Video Inputs to your preference to increase viewing performance and pleasure, depending upon the video program being viewed. If RESET is selected, only the selected Input will reset to the initial conditions as explained above.

If RESET is selected in Input 1, only Input 1 will return to factory conditions.

Audio

Select AUDIO to adjust the sound to your preference.



Sound Mode

This function has four sound settings which are preset according to the type of program. Standard for normal audio condition, Movie audio settings for a movie, News audio setting for News Broadcast programs and Custom mode is adjusting audio levels at your convenience. Only on Custom mode you are able to change settings. The other three modes will have unavailable settings grayed out.

Audio Menu Settings Adjustment

1. Press the CURSOR PAD ▲ or ▼ to select menu item.
2. Press the CURSOR PAD ◀ or ▶ to adjust the function.
3. Press EXIT to quit the MENU, or select AUDIO to return to the main menu.

NOTE

If TREBLE is selected you are adjusting treble. The additional menu items BASS and BALANCE can be selected and adjusted in the same manner.

Bass

This function controls the low frequency audio to the speakers.

Treble

This function controls the high frequency audio to the speakers.

Balance

This function will control the left to right balance of the LCD TV internal speakers and headphone jack.

Audio Source

Multi-Channel Television Sound will allow you to select STEREO (a stereo broadcast), MONO (monaural sound) used when receiving a weak stereo broadcast or SECOND AUDIO PROG (SAP) which may be a secondary language, weather report, etc. This setting is only for analog programming.

Preferred Language

Some programs transmit in other languages. This language function will allow you to set between 3 language options (English, Español & Français) to your preference as the audio default language.

Audio Language

Some programs transmit more than one DTV language option. Most will have English as a default language. The language function will allow you to select up to 6 language options (if available). Please try all available options.

Digital Output

This function allows you to select between RAW and PCM. This setting changes the format of the Digital Optical Output.

PCM.- Select this feature if the TV is connected to an amplifier/receiver with a PCM only decoder; it will provide two independent soundtrack channels through the optical audio output jack (Digital Audio).

RAW.- Select this feature to allow the original audio bit stream to be passed through to the audio receiver.

Internal Speakers

This function is useful when using external speakers. Select ON if using the internal speakers only. Select OFF if you prefer to use the speakers from a separate stereo system.

Perfect Volume

This function will automatically adjust volume so each channel and input has the same average volume level.

SRS TruSurround HD

Provides enveloping, immersive surround sound, for every seat in the room, done with only two speaker, eliminating the need for multiple external speakers. This is often done to create a more realistic audio environment.

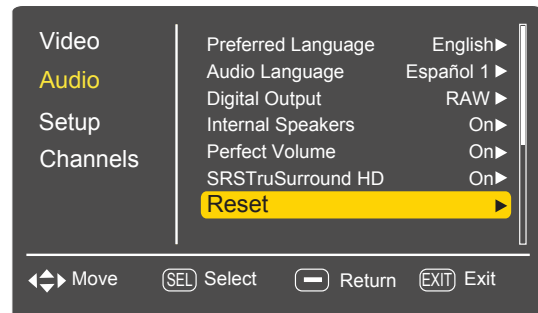
1. Use CURSOR ► to select On/Off option.

Off : Turns off the surround sound effect.

On : Provides the surround effect by simulating two or more speakers to the rear of the listener.

Reset

This function allows you to Reset the Audio Menu Settings of the present input and return it to the Custom mode and default settings.



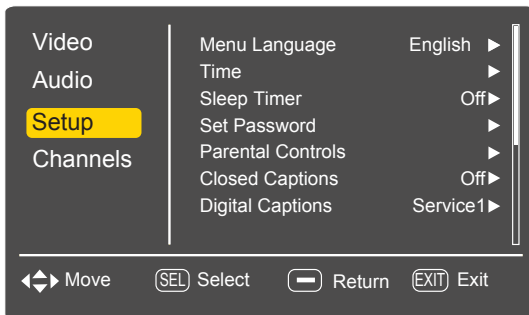
1. Use the CURSOR PAD ▲, ▼ to highlight functions.
2. Press the SELECT button or the CURSOR PAD ► to select Yes or No.
3. Press the SELECT button on the Yes option to execute the reset of the Audio settings.

You can customize each of the Audio Inputs to your preference to increase audio performance and pleasure, depending upon the audio program being heard. If RESET is selected, only the selected Input will reset to the initial conditions as explained above.

If RESET is selected in Input 1, only Input 1 will return to factory conditions.

Setup

Select SETUP when setting your TV up for the first time.



1. Use the **CURSOR PAD** ▲ or ▼ to select the Setup menu.
2. Use the **CURSOR** ► to enter the option of your choice and make the changes that you need.
3. Press the **MENU key** to return.

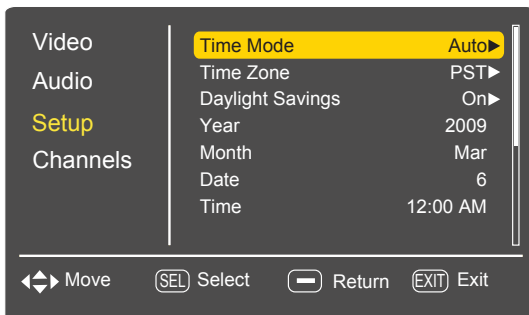
Menu Language

Sets the Language of the Menu OSD. This feature will allow you to select any one of three different languages for the on-screen displays.

1. Use the **CURSOR Pad** ► to select the language of your choice.
2. Press **EXIT** to quit the menu or **MENU key** to return to the previous menu.

Time

Use this option to set the Clock, Date and Time Zone for your LCD TV.



1. Use the **CURSOR PAD** ▲, ▼, ►, ◀, to highlight and setup the TIME settings.
2. If you observe daylight savings, use the CURSOR PAD to highlight DAYLIGHT SAVINGS and press the ► button to activate it. This can only be changed if the Time Mode is set to Auto.
3. Use the **CURSOR PAD** to highlight and adjust the CURRENT TIME (hour and minute), AM or PM, MONTH, DAY, and YEAR.
4. Press the **SELECT** button to set the TIME.
5. Press **EXIT** to quit the menu or the **Menu** key to return to the previous menu.

NOTE

- When AUTO is set DAYLIGHT SAVINGS can be set, the TV will automatically calculate the clock adjustment for Daylight Saving.
- The TV counts electrical pulses for regulating the TIMERS. When the power cord is unplugged quickly, the clock is stopped momentarily and the TIME indication will become slow.
- Year, Month, Date and Time can be changed only if the Time Mode is set to Manual

Set Sleep Timer

Select this feature to set your SLEEP TIMER from 5 minutes to 4 hours.

1. Press the **CURSOR PAD** ► repeatedly to set your Timer from Off, 5 min, 10 min, 15 min, 30 min, 60 min, 90 min, 120 min, 180 min and 240 min.

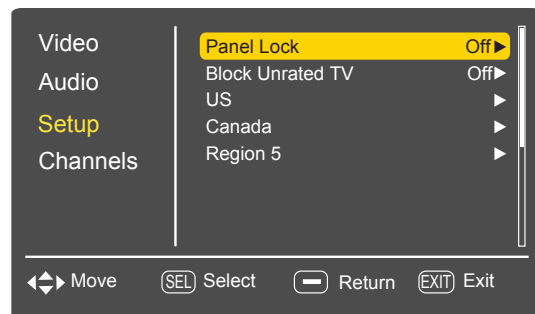
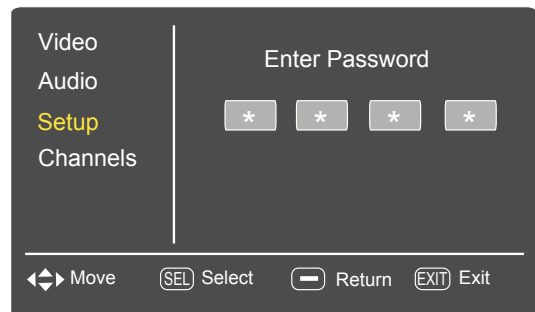
Set Password

1. To change the Password, select Set the Password option to change the factory preset password (0000) to your preference. If you forget your Password, use the factory password 7777 to erase your key number. This will reset the access code number back to the factory preset (0000).
2. Enter a new four digit number.
3. Press **EXIT** to quit the menu.

Parental Controls

This function will block out the picture and sound of the selected rating levels.

The password to enter the Locks feature is a four digit number. The factory preset password is 0000. Use the **NUMBER** buttons to enter the password.



Panel Lock

When **PANEL LOCK** is turned On, all buttons on the Side Panel, except the Power button will be deactivated.

Block Unrated TV

When this feature is turned On, programs without ratings will be blocked.

US

This option will block TV and Movie Ratings in the USA to prevent viewing of any content that you feel may be inappropriate (see page 28).

Canada

This option will block TV and Movie Ratings in Canada to prevent viewing of any content that you feel may be inappropriate due to its content (see page 28-29).

Setup

Motion Picture Ratings Table

NOT RATED	Contains no rating. Not Rated (NR) and Not Applicable (NA) programs. Movie has not been rated or ratings do not apply.
G	General audiences. All ages admitted.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires accompanying parent or adult guardian.
NC-17	No one 17 and under admitted.
X	Adults only

- If the movie does not carry a rating, the TV will not block it.
- Blocking NOT RATED programs may block emergency programming, sports, news, public service announcements, religious programs and weather.

NOTES

TV Parental Guide Ratings Table

TV-Y	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
TV-Y7	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
TV-G	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
TV-PG	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	Parents strongly cautioned. This program may contain sophisticated themes, intense sexual situation, more intense violence and intensely suggestive dialogue.
TV-MA	Mature audiences only. This program may contain mature themes, indecent language, graphic violence, and explicit sexual content.

FV: Fantasy/Cartoon Violence V: Violence S: Sexual Situation L: Adult Language D: Sexually Suggestive Dialogue

- If you Block TV-14D, you will still permit TV-MA programs; If you block TV-14V, you will automatically block TV-MAV programs, but you will still permit TV-MALS programs. This means that the TV will block violence in TV-14 and higher (TV-MA), but not language and sex.
- TV program ratings are dependent on the broadcaster. If the program is not rated, the TV will not block it.

NOTES

Canadian Ratings English Table

C	Programming intended for children under age 8 - Violence Guidelines; Careful attention is paid to themes, which could threaten children's sense of security and well-being. There will be no realistic scenes of violence. Depictions of aggressive behavior will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature. Other Content Guidelines: There will be no offensive language, nudity or sexual content.
C8+	Programming generally considered acceptable for children 8 years and over to watch on their own - Violence Guidelines: Violence will not be portrayed as the preferred, acceptable, or only way to resolve conflict; or encourage children to imitate dangerous acts which they may see on television. Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. Other Content Guidelines: There will be no profanity, nudity or sexual content.
G	General Audience - Violence Guidelines: Will contain very little violence, either physical or verbal or emotional. Will be sensitive to themes which could frighten a younger child, will not depict realistic scenes of violence which minimize or gloss over the effects of violent acts. Other Content Guidelines: There may be some inoffensive slang, no profanity and no nudity.
PG	Parental Guidance - Programming intended for a general audience but which may not be suitable for younger children. Parents may consider some content inappropriate for unsupervised viewing by children ages 8-13. Violence Guidelines: Depictions of conflict and/or aggression will be limited and moderate; may include physical, fantasy, or supernatural violence. Other Content Guidelines: May contain infrequent mild profanity, or mildly suggestive language. Could also contain brief scenes of nudity.
14+	Programming contains themes or content which may not be suitable for viewers under the age of 14 - Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Violence Guidelines: May contain intense scenes of violence. Could deal with mature themes and societal issues in a realistic fashion. Other Content Guidelines: May contain scenes of nudity and/or sexual activity. There could be frequent use of profanity.
18+	Adult - Violence Guidelines: May contain violence integral to the development of the plot, character or theme, intended for adult audiences. Other Content Guidelines: May contain graphic language and explicit portrayals of nudity and/or sex.

Setup

Canadian Ratings French Chart

G	General - Programming intended for audiences of all ages. Contains no violence, or the violence content is minimal or is depicted appropriately with humor or caricature or in an unrealistic manner.
8 ans+	8 + General - Not recommended for young children - Programming intended for a broad audience but contains light or occasional violence that could disturb young children. Viewing with an adult is therefore recommended for young children (under the age of 8) who cannot differentiate between real and imaginary portrayals.
13 ans+	Programming may not be suitable for children under the age of 13 - Contains either a few violent scenes or one or more sufficiently violent scenes to affect them. Viewing with an adult is therefore strongly recommended for children under 13.
16 ans+	Programming is not suitable for children under the age of 16 - Contains frequent scenes of violence or intense violence.
18 ans+	Programming restricted to adults - Contains constant violence or scenes of extreme violence.

Region 5

Use REGION 5 to block various types of movies and television programs based on ratings systems used in the U.S. that you feel may be inappropriate due to its content. The REGION 5 option will operate for Digital Channels (ATSC) only.

Ratings Procedure

1. Use the **CURSOR PAD** ◀, ▶ to select the **RATING CATEGORY** (MPAA, TV Rating, etc.) that you want to block.
2. Press **SELECT** to block the **RATING** that you have selected.
3. Press **EXIT** to quit the menu.

Region 5 Alternate Ratings (Example Only)


G	General audiences. All ages admitted.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires accompanying parent or adult guardian.
NC-17	No one 17 and under admitted.
X	Adults only.
Y	Adults only.

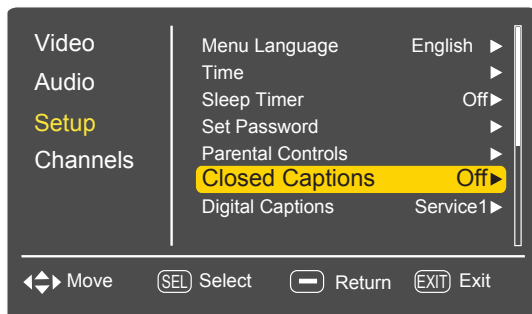
NOTES

- In order to set the Region 5 Ratings the ATSC Digital channel received must include Region 5 Ratings data. To see if the channel has Region 5 Ratings, press the **INFO** key on the **R/C**.
- Once the TV has received Region 5 Ratings data, the Region 5 option in the Parental Controls menu will become available and display the data.

Setup

Closed Captions

Closed Captions are the dialogue, narration, and/or sound effects of a television program or home video which are displayed on the TV screen. Your local TV program guide denotes these programs as **CC** or .



1. Use the **CURSOR PAD** **▶**, **▲** and **▼** to highlight and select the function to change.
2. Press **EXIT** to quit menu or select **CLOSED CAPTIONS** to return to the previous menu.

Closed Captions:

ON/OFF will turn the display **CC** on or off.

With Mute will turn the display **CC** on when Mute is on.

Digital Captions

Set captions for digital programs and set available language.

Digital Captions Options

This function will help choose and set font, size, color and background style of digital captions.

NOTES

- The Digital Closed Captions feature only works when using the "TV" tuner of this television.
- Caption Display will not work when viewing a 480i, 480p, 720p, 1080i or 1080p input via the COMPONENT: Y-PbPr or HDMI inputs.
- Closed Captions and Digital Captions availability and content depends on the broadcaster. Closed Caption are available when the Closed Caption icon is displayed on screen.
- Digital Captions language will not be available (grayed out) when using analog channels.

Analog Captions:

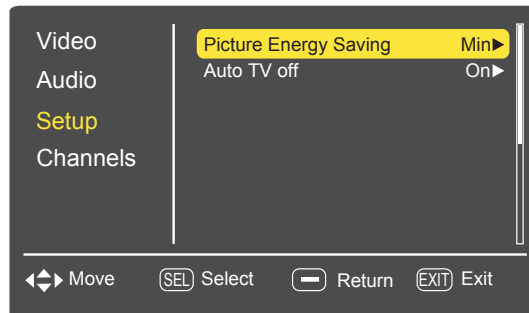
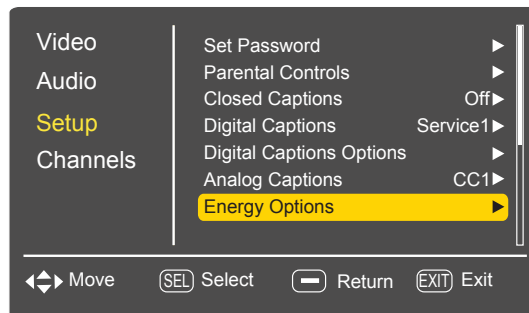
Set CAPTIONS for Analog programs. This function will help choose and set available mode and channel.

CC1, CC2, etc. : These are for the program you are viewing.

TEXT1, etc. : These are for additional information such as news reports or a TV program guide. This information covers the entire screen and viewing the TV program is not possible. Text may not be available with every **CC** program.

Energy Options

Use this feature to save energy when watching your Hitachi LCD TV.



1. Press the **CURSOR PAD** **▲** or **▼** to highlight Energy Options.
2. Press the **CURSOR PAD** **▶** to select your choice.

Picture Energy Saving

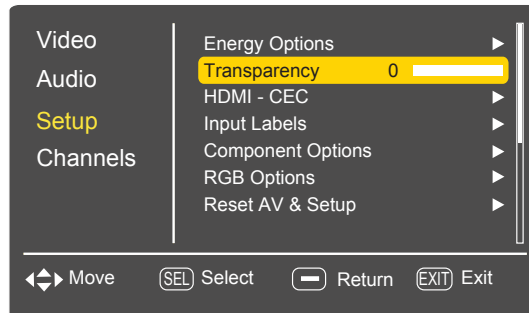
This function allows you to choose power consumption reduction based on 3 levels (Min., Medium and Max).

Auto TV Off

This function turns Off the TV when no signal is detected for 3 hours, please choose On or Off to set this feature.

Transparency

This function allows you to change the transparency of OSD based on 10 levels (0 opaque ~ 10 transparent). Adjust to your own preference.

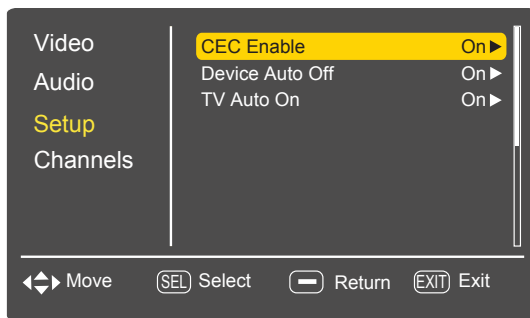
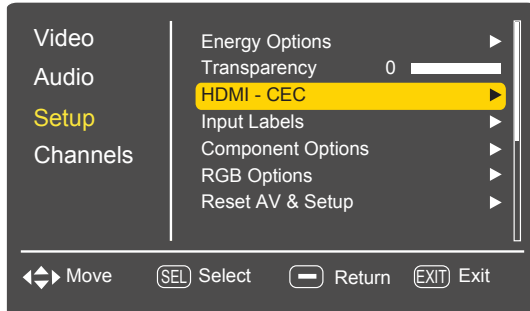


1. Press the **CURSOR PAD** **▲** or **▼** to highlight Transparency.
2. Press the **CURSOR** **▶** or **SELECT**.
3. Press the **CURSOR** **▶** to increase or **◀** to decrease the OSD transparency.

Setup

HDMI-CEC

Set to ON and this feature will enable the HDMI-CEC signal bus to allow your Hitachi LCD TV to discover and communicate automatically with other compatible HDMI-interfaced Audio/Video equipment. The CEC signal bus makes global controls possible, based on “plug & play” automation, to minimize the number of IR remotes and key-presses required for basic operation of your AV system. Select OFF to disable this option.



With the “HDMI-CEC” feature, you can interface the connected equipment through the HDMI terminal automatically if the connected equipment meets the “HDMI CEC (Consumer Electronics Control)” industry standard. Please check if the connected equipment supports HDMI CEC before using this feature. For example, here are two common functions when HDMI CEC is set to ON.

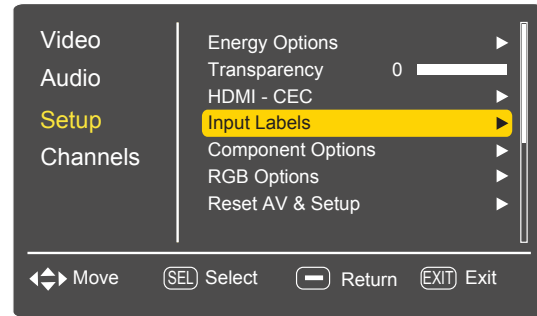
Feature	Description
One-Touch Play (TV Auto On)	Pushing the “Play” button on the CEC enabled device will command the device to play, turn the TV on, and the HDMI input, that the device is connected to, will become the active input source for the TV.
System Standby (Device Auto Off)	When the user turns off the TV, all active CEC enabled devices on the HDMI input will go to Standby.
Playback Control	The user can operate the CEC enabled device’s deck control functions (i.e. Play, Stop, Fast Forward and Rewind) by the TV’s remote control’s transport keys (ie. ▶, ■, ◀◀ and ▶▶).

NOTE

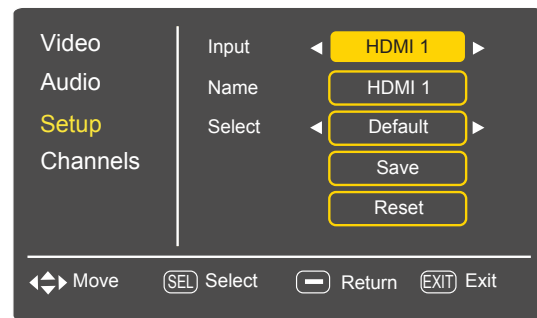
Not all devices with an HDMI connection have the CEC feature. Consult the instruction manuals for the device you are trying to control to confirm whether or not CEC is available.

Input Labels

Use this feature to give a name to any of the nine video inputs excluding the TV input.



1. Press the **CURSOR PAD** ▲ or ▼ to highlight the Inputs labels.
2. Press the **CURSOR PAD** ► to select your choices.

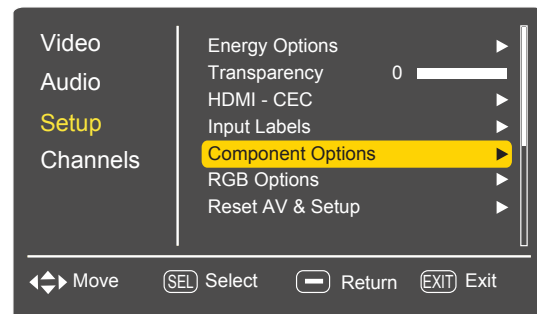


NOTE

The Input labels is Grayed out (Skip) or disabled until you are on the INPUT that you like to change. Then the Custom option is selected a KEYBOARD will appear on the screen to place your desired label.

Component Options

This function allows you to adjust the phase between your TV and the Device with component output.



1. Press the **CURSOR PAD** ▲ or ▼ to highlight Component Options.
2. Press the **CURSOR PAD** ► to select your choice.

There are two options for the Component inputs:

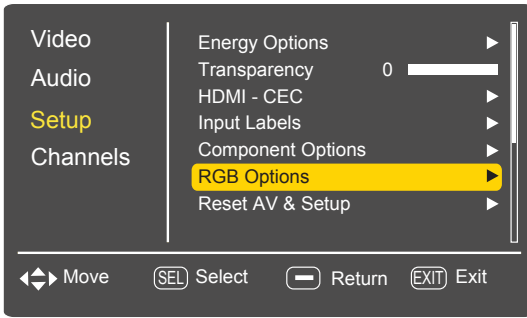
Phase: Use this feature to fine-tune the display to perfectly synchronize with the video signal source.

Reset: Return to the original condition for Component inputs.

Setup

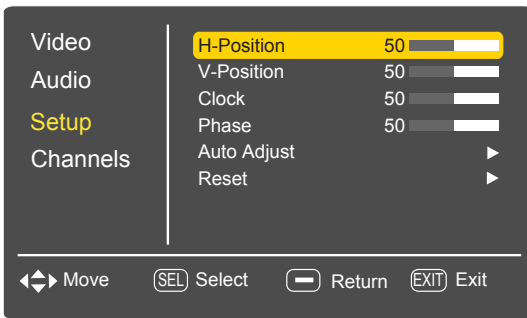
RGB Options

This function is to adjust the RGB input to match your PC or laptop output with your LCD Television.



1. Press the **CURSOR PAD** ▲ or ▼ to highlight RGB Options.
2. Press the **CURSOR PAD** ► to select your choices.

There are 6 options for the RGB input. H-position, V-Position, Clock, Phase, Auto Adjust and Reset.



H-Position

Adjusts the display position horizontally.

V-Position

Adjusts the display position vertically.

Clock

Minimizes vertical stripes on the screen.

Phase

Minimizes the blurring of letters and stripes on horizontal row.

Auto Adjust

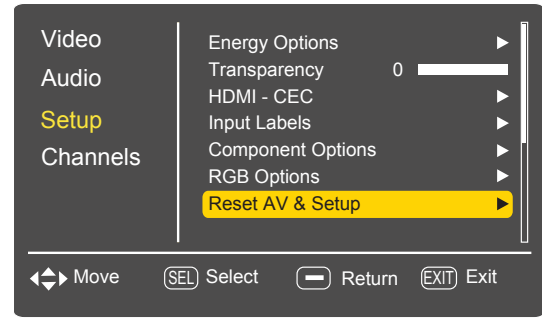
Adjusts Horizontal Position, Vertical Position, Clock, and Phase automatically.

Reset

Each item in RGB Options Menu will be restored to the factory setting by selecting Yes.

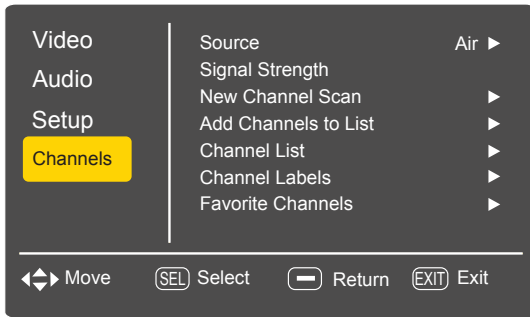
Reset AV & Setup

This feature restores all Audio, Video and Setup configuration that you have made on the TV and it will return to the factory settings.

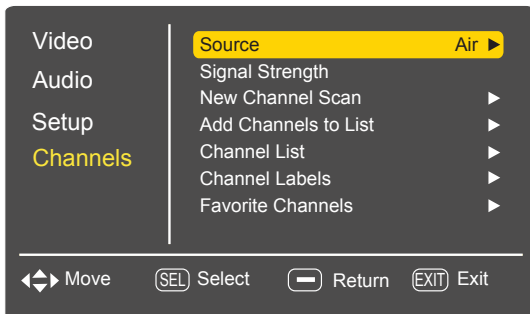


Channels

Select Channels to set your signal source options, run New Channel Scan, Check Signal Meter and Set Channel List (Add channels to List, Channel/Labels and Favorite Channels).



1. Press **CURSOR PAD ▲, ▼** to highlight functions.
2. Press the **SELECT** button or **CURSOR PAD ►** to select.



Source

Select the signal Source for the TV. When using an indoor or outdoor antenna select Air. When using a cable system select Cable.

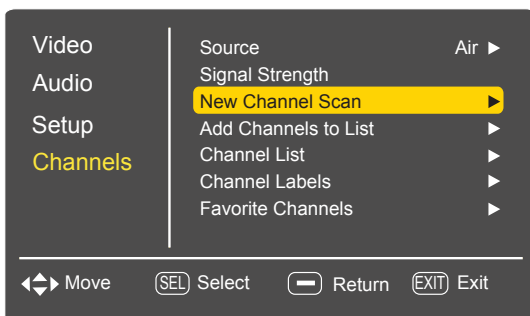
Signal Strength

Select Signal Strength when using an indoor or outdoor antenna. This feature will show the signal strength of the Antenna signal to help you adjust your antenna to optimize signal reception. Use the MENU button or EXIT button to return.

NOTE *The Signal Strength will not be available (grayed out) when watching analog channels.*

New Channel Scan

This feature will automatically store active Analog and Digital channels to the Channel list. This scan will erase all channels previously stored in the list.

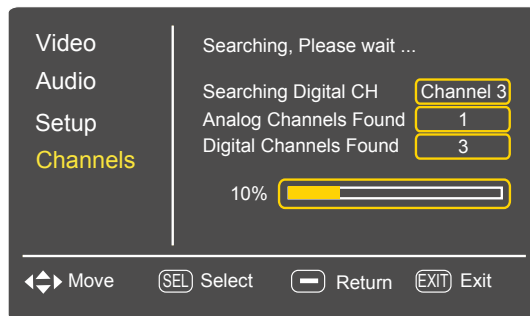


1. Use the **CURSOR** buttons to highlight then press **SELECT** key to start.

NOTE *If you do not want to erase all scanned channels, please use the Add Channels to List option instead.*

Add Channels to List

This function allows you to add channels to the channel memory. Sometimes adjusting the antenna direction will allow reception of additional channels.

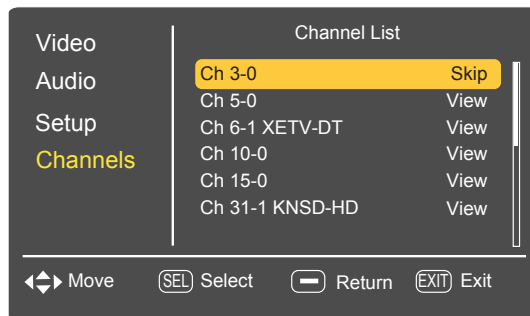


1. Use the **CURSOR PAD** to select the Add Channels to List.
2. Press the **SELECT** button to start scanning.
3. Press the **EXIT** button to return to normal viewing.

Only the Channels that have not been added to the list will be stored.

Channel List

This function allows you to review which channels have been added to the CHANNEL list.



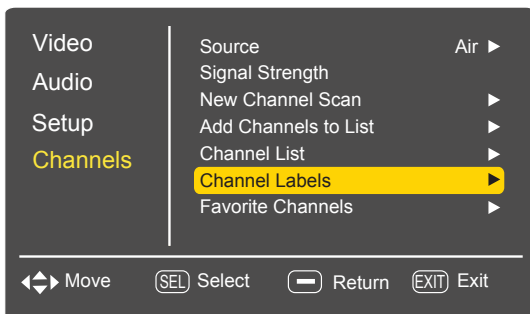
1. Use the **CURSOR PAD** to navigate the Channel List.
2. Press the **SELECT** or **►** button to select **SKIP** or **View**.
3. Press the **EXIT** button to return to normal viewing.

The Channel List cannot be updated by only changing the cable source. Auto Channel Scan must be performed for the Channel List to be updated.

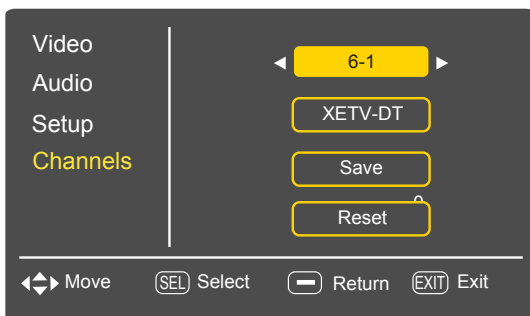
Channels

Channel Labels

Use this feature to give a name to any of the channels.



1. Press the **CURSOR PAD** ◀ or ▶ to highlight the channels.
2. Press the **CURSOR down** ▼ to change the channel label.
3. Press the **SELECT** key to show the Keyboard for editing the channels.

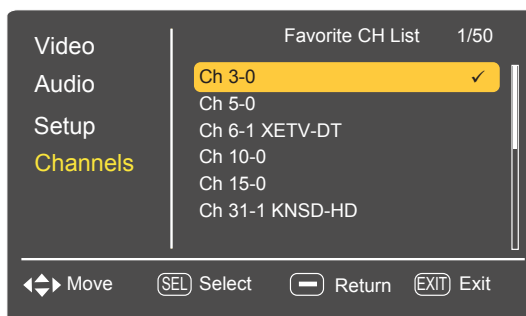


Favorite Channel

This function allows you to manage your Favorite Channels.



1. Use the **CURSOR PAD** to navigate the Channel List.



2. Press the **SELECT** or ▶ button to check mark the channel and make it a Favorite channel. Select all desired channels.
3. Press the **EXIT** button to return to normal viewing.
4. To view all the Favorite channels that you have chosen, press the **FAV. CH** key on the Remote Control.



IMPORTANT NOTICE

The nationwide switch to digital television broadcasting will be complete on June 12, 2009, but your local television stations may switch sooner. After the switch, analog-only television sets that receive TV programming through an antenna will need a converter box to continue to receive over-the-air TV. Watch your local stations to find out when they will turn off their analog signal and switch to digital-only broadcasting. Information about the DTV transition is available from your local television stations, www.DTV.gov, or 1-888-CALL-FCC (TTY 1-888-TELL-FCC), and www.dtv2009.gov or 1-888-DTV-2009 (TTY 1-877-530-2634) for information about subsidized coupons for digital-to-analog converter boxes. Please review this Operating Guide for further information regarding such connections.

Hitachi supports the DTV transition and as a member of the DTV Transition Coalition urges consumers to visit these web sites for interactive guides and further detailed information:

- www.dtvtransition.org
- www.myceknowhow.com
- www.dtv2009.gov

Equipment Care and Troubleshooting

DO

Dust the screen and cabinet with a soft cloth.

Clean the screen with a soft cloth moistened in warm water and dry with a soft cloth. A mild soap may be used if the screen is extremely dirty.

Place your LCD Television away from extreme heat, humidity and extremely dusty places.

Remove the plug from the wall outlet if your LCD Television will not be used for a long period of time, for instance, when you go on vacation.

DO NOT

Do not clean your screen with strong cleaners, polishes or a chemically treated cloth.

Do not place rubber or vinyl products or cellophane tape on your LCD Television.

Avoid repeatedly touching the screen.

Do not subject the remote control to shocks such as dropping it on the floor, etc. This may cause damage to the precision parts.

Avoid placing the remote control in a high humidity place or getting it wet. Do not leave it on or near a heater. Excessive heat or moisture may cause the unit to fail.

When the batteries run down, remote control operation will become erratic or become unresponsive. Replace the old batteries with two new "AA" size batteries. Do not use an old battery with a new battery.

Exposing the screen to direct sunlight for a long period of time or heat may cause damage to the LCD screen.

Troubles are sometimes caused by simple "faults" that you can correct without the help of a service technician. If you experience any difficulty with your TV, check a few basic remedies before calling your service technician.

TV will not turn ON

1. Press the POWER Button (ON/OFF button) once.
2. If there is still no power, wait 30 seconds and press the POWER button again.
3. If there is still no power, unplug the power cord from the wall. Wait 30 seconds and plug the power cord back in. Press the POWER button again.

When the Following Messages Appear on the Screen

Message	Condition / Action
No Signal	<p>The unit cannot detect any signals from any input terminals or the TV channel does not show picture.</p> <ul style="list-style-type: none"> • Check if the cable is connected correctly and firmly. • Check if the power of any external equipment is ON. • Check if the input selection matches the connection terminal. • This message will be displayed for 15 minutes then the TV will turn Off.

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

Troubleshooting

Symptom and Checklist

SYMPTOM	CHECKLIST	PAGES
No picture - no sound	<ul style="list-style-type: none"> • Check the Indicating lamp status (Off, Red, Blue). • Check the connection of the power cord and/or other cables. • Check if the power of the unit or external equipment is ON. • Check if the correct Video input is selected. • Check if the unit is in "Standby mode" . • Adjust the values in "Video menu" and "Audio menu". 	9, 12, 14~17 24~26
Multiple images-normal sound	<ul style="list-style-type: none"> • Check the connections to external equipment. 	14~17
Intermittent interference	<ul style="list-style-type: none"> • Check if the source of interference is shielded correctly. • Move these kinds of electrical devices away from the unit. 	37
Normal picture, but no sound	<ul style="list-style-type: none"> • Check the volume level. • Check if the MUTE button has been pressed or not. • Check the connections to external equipment. • Try next/other Audio Language. 	18, 14~17 19, 26
No picture - normal sound	<ul style="list-style-type: none"> • Check the value level of "Brightness" and "Contrast" in "Video Menu". 	24
The remote control does not work.	<ul style="list-style-type: none"> • Check if the batteries are installed correctly. • The batteries might be exhausted. Replace them with new ones. • Remove all obstructions from in front of the sensor window on the unit. • Check if the buttons on the control panel are working. 	6, 9
The buttons on both the remote control and control panel do not work.	<ul style="list-style-type: none"> • Unplug and connect the power cord again. 	7, 35
Normal picture but no color-normal sound	<ul style="list-style-type: none"> • Check the connections to external equipment. 	14~17
No picture The Indicating lamp → Off	<ul style="list-style-type: none"> • Check if the power cord is plugged into the socket securely. 	7, 9
No picture The indicating lamp → Blue	<ul style="list-style-type: none"> • Check if the signal cable is connected correctly and securely. • Adjust the level of Brightness and Contrast lower. 	12, 14~17, 24
Some screen display aspects cannot be switched in.	<ul style="list-style-type: none"> • Check the signal status by pressing the INFO button on the remote control. The available screen display aspect is different depending on the current signal status. 	11, 21 50
No power	<ul style="list-style-type: none"> • Check the power cord is connected to the AC outlet. 	9, 12
Turns Off by itself	<ul style="list-style-type: none"> • Check or ensure Sleep Timer settings are not activated. 	11, 19, 27
Turns On by itself	<ul style="list-style-type: none"> • Check if the HDMI-CEC feature is activated. 	11, 19, 31
Picture may "block" or freeze when watching a digital channel.	<ul style="list-style-type: none"> • Check signal strength under "Signal Strength". 	33

HDMI Issues

SYMPTOM	CHECKLIST	PAGES
No picture - no sound	<ul style="list-style-type: none"> • Make sure you have selected the correct HDMI input. Toggle through them while HDMI device is ON or during playback. • Unplug and re-plug HDMI connection while TV and HDMI source device are powered on. • Turn TV and HDMI device off. Turn TV on first and then HDMI device second. 	14, 15, 17, 19
Error notice comes to screen	<ul style="list-style-type: none"> • Try pressing "exit" on HDMI device remote control and then on TV remote to find source of the error OSD. If error persist or comes back even after pressing exit, try alternate HDMI input on TV. • Unplug and re-plug HDMI connection while TV and HDMI source device are powered on. • Turn TV and HDMI device off. Turn TV on first and then HDMI device second. 	9, 11 14, 17
Normal picture, but no sound	<ul style="list-style-type: none"> • Check HDMI Audio settings under the HDMI device menu (of the HDMI source device). In order to get sound on TV, HDMI output must be set to PCM option. 	
No sound from TV Optical Out when using HDMI devices	<ul style="list-style-type: none"> • Change Digital Output selection. • As an option, use audio optical output from HDMI source device directly to separate Audio Amplifier. 	17
Picture flickers during channel change w/ using HDMI Set Top Boxes	<ul style="list-style-type: none"> • This is normal operation from the source switching delay itself. It's not an indicator of a TV malfunction. 	
Picture is blurry or fuzzy	<ul style="list-style-type: none"> • If HDMI source is HD capable, ensure it's output is set to 1080i or 720p under HDMI device menu (of the HDMI source device). 	
Pixelization noise or loss connection ("No Signal" message display)	<ul style="list-style-type: none"> • Check HDMI input picture format, if use 1080p format confirm cable length it is recommended that the length of the cable should be less than 5 meters, or change HDMI input picture format to 1080i. 	

Reception Problems



IGNITION NOISE:

Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, electrical drills, and other electrical appliances.



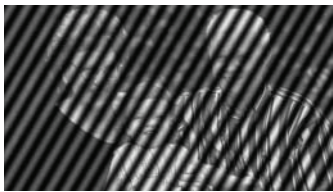
GHOSTS:

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or some other objects. Changing the direction or position of the antenna may improve reception. Ghosting may also be caused by defects in the antenna system such as unshielded leads or connecting several sets to the same antenna without using multiple antenna couplers.



SNOW:

If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it may be necessary to install a special antenna to improve the picture.



RADIO FREQUENCY INTERFERENCE:

The interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.

PREVENTION OF AN OBSTACLE TO RADIO RECEIVERS

This television has been designed pursuant to the FCC class B Rules. This is to prevent a problem to Radio receivers. If this television causes a problem to Radio receivers, then take the following steps:

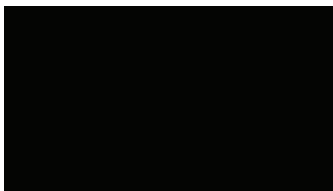
- Keep the television away from Radio.
- Adjust Radio antennas in order for the television not to receive interference.
- The antenna cable of Radio should be kept away from the television.
- Use a coaxial cable for antenna.

You can check if this television influences Radio receivers by turning off all other equipment other than the television. If you find a problem receiving Radio when using the television, check the instructions mentioned above.



BLOCK NOISE or FREEZE (DIGITAL INPUT):

Fuzzy blocks may appear in some area or the whole area of the screen. This is usually caused by interference from automobile ignition systems, neon lamps, electrical drills, ghosting of the image and lost or weak receiving signals.



BLACK SCREEN:

When using an antenna, weak signals will display a black screen. It may be necessary to upgrade your antenna.

NOTE

The TV set can generate sound distortion in external devices such as a radio. Please separate radio equipment from the TV set to a considerable distance.

Features and Specifications

Features:

- **New** High Gloss Black Frame
- (4) HDMI™ (V.1.3 with x.v.Color™, CEC)
 - 1080p60, 1080p24 Input Compatible
- **New** Multi-Function Remote Control
- Dynamic/Standard/Movie/Custom/Game Picture Memories
- 3 Preset Color Temperatures
- Game Mode

Video:

- 1920 x 1080p Display Resolution L42A403
- 1366 x 768p Display Resolution L32A403
- Wide Viewing Angle
- Color Temperature Presets: High, Standard and Medium.
- Multiple Screen Fill Modes: (Auto/4:3/16:9/Zoom 1/ Zoom 2/ Full)¹
- 4MB 10-bit 3D Y/C Comb Filter
- Picture Modes : Dynamic, Standard, Movie, Custom and Game

Audio:

- MTS Stereo/SAP
- 4 Sound Modes (Custom, Standard, Movie, News)
- SRSTruSurround HD Sound
- 24W L42A403
- 20W L32A403

Inputs:

- Power Input AC 120V, 60Hz
- Power Consumption
 - Maximum Power L32A403: 150 W, 1.5 A
 - Maximum Power L42A403: 250 W, 2.5 A
- Antenna Input Impedance 75 Ohm
- Channel Coverage 191ch.
 - VHF-Band 2~13
 - UHF-Band 14~69
 - CATV Mid Band. A5~A1
 - AI
 - Super Band J-W
 - Hyper Band W+1 - W+28
 - Ultra Band W+29 - W+94
- Television System NTSC Standard
 - ATSC Standard (8 VSB, 64-QAM, 256-QAM)
- Video 1.0Vp-p, 75 Ohm
- S-Video
 - Luminance(Y): 1.0Vp-p, 75 Ohm
 - Chrominance(C): 0.286Vp-p, 75 Ohm
- Component Video
 - Luminance(Y): 1.0Vp-p, 75 Ohm
 - Chrominance(Pb/Pr): 0.7Vp-p, 75 Ohm
- Audio Input Impedance more than 20k Ohm
- Average Input Level. 470mVrms
- HDMI (19 PIN)

Supplied Accessories:

- Remote Control
- Batteries (AA)
- 6' AC Power cord cable
- Operating Guide
- Easy Graphic Guide

Inputs/Outputs:

- Wideband Component Y, Pb,Pr. 2
- Composite Video 2
- S-Video 1/2²
- Antenna (RF)Inputs. 1
- Audio Out 1
- Optical Output 1
- HDMI 4
- Upgrade USB Slot. 1
- RGB Input 1
- RGB Audio Input. 1
- Phono Jack for Headphones. 1

Specifications:

- FCC class: B for Consumer Use
- Power Requirements 108-132VAC, 60Hz

¹ Screen mode availability varies by input format

² Only the L42A403 has 2 available S-Video Inputs.

HDTV Televisions display HDTV only when an HDTV source is available

All specifications, weights, and dimensions are subject to change without prior notice. Please access www.hitachi.us/tv for detailed specifications and dimensions for custom installations.

HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

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

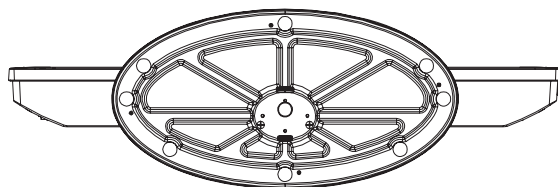
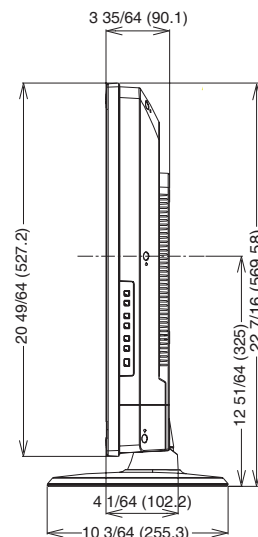
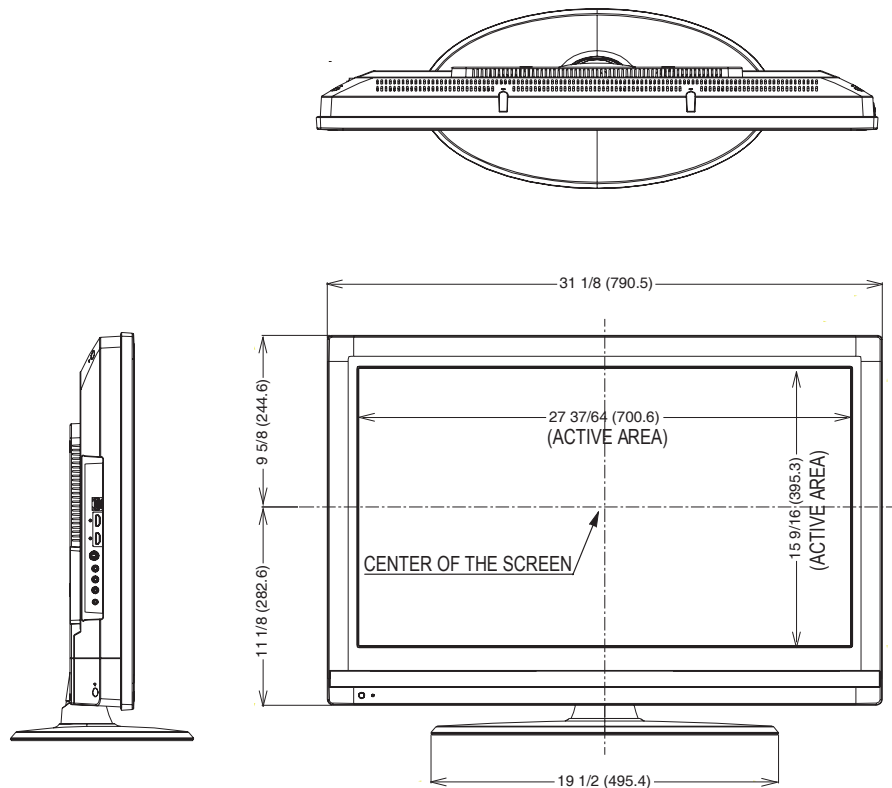
SRS TruSurround HD

SRS TruSurround HD is a trademark of SRS Labs, Inc. TruSurround HD technology is incorporated under license from SRS Labs, Inc.

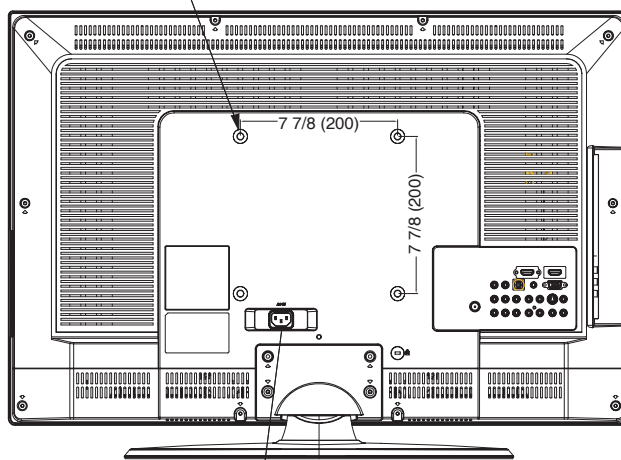
Set Dimensions

L32A403 model (Includes Table Top Stand) Weight (lbs./kg): 26.5/12

Units : Inches (mm)



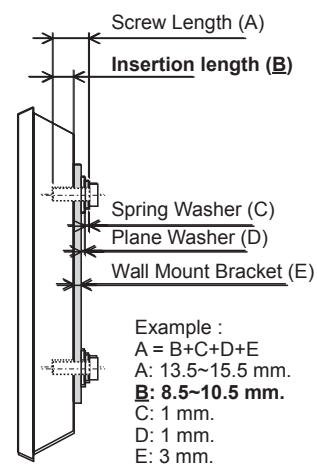
HOLE FOR WALL MOUNT (4 PLACES)



LOCATION OF THE AC POWER CORD

Rear View

Use as Reference for Wall Mount Bracket



• The screw type : Thread ISO M6 (Metric type, do not use Standard type).

Side View

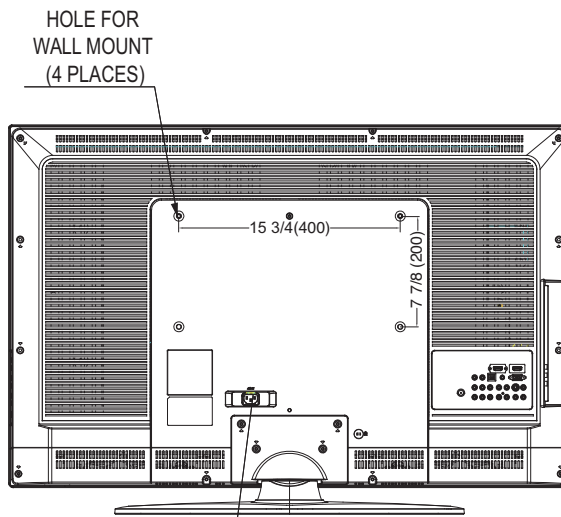
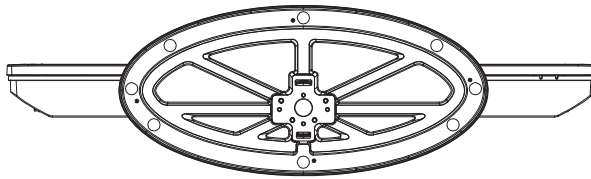
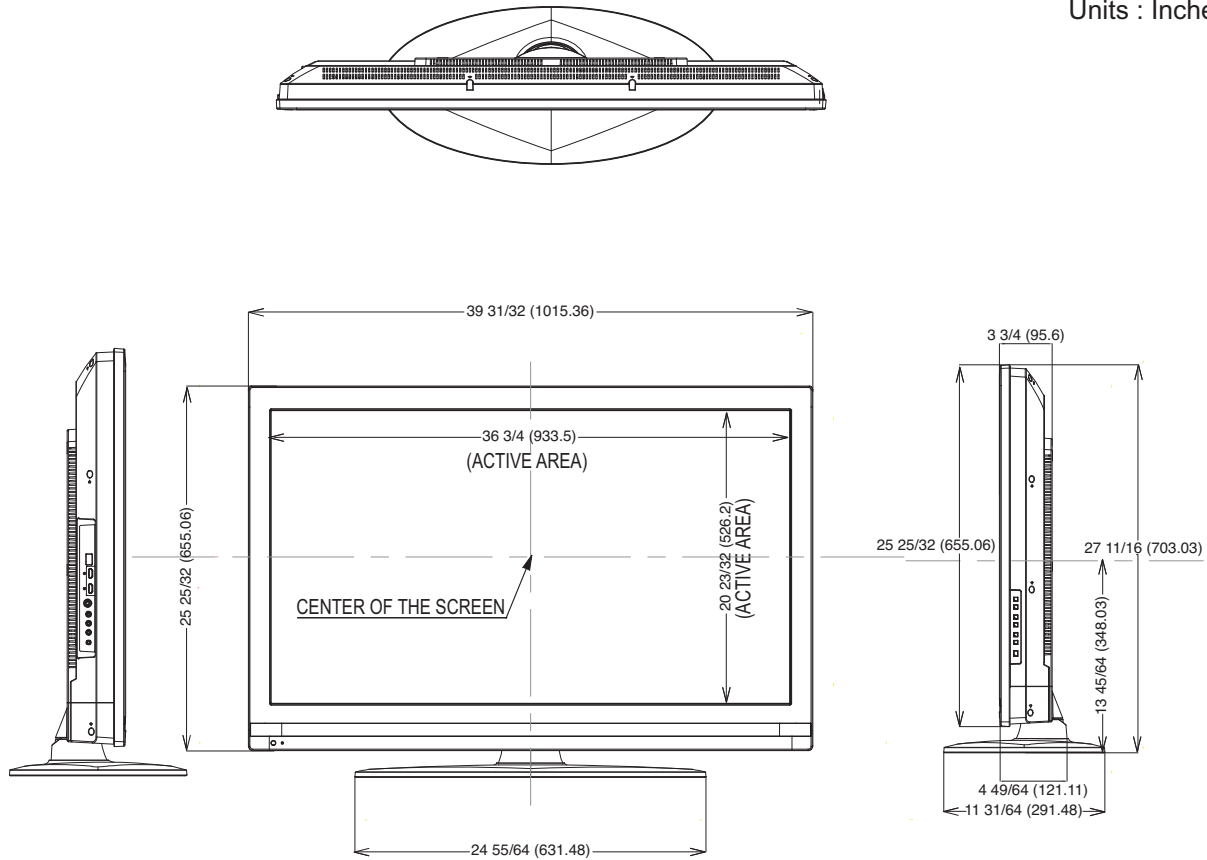
Wall Mount Screw specification

USEFUL INFORMATION

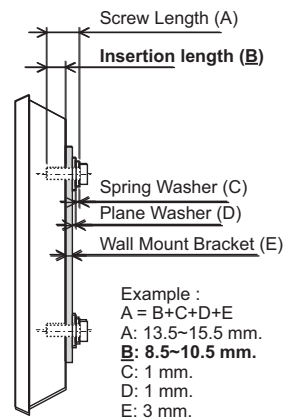
Set Dimensions

L42A403 model (Includes Table Top Stand) Weight (lbs./kg): 45.6/21

Units : Inches (mm)



Rear View
Use as Reference for Wall Mount Bracket



• The screw type : Thread ISO M6 (Metric type, do not use Standard type).

Side View
Wall Mount Screw specification

Service Information

800.HITACHI
(800.448.2244)

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

Saturday
10:00 am - 5:00 pm CST

www.hitachi.us/tv



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HITACHI
Inspire the Next

HITACHI HOME ELECTRONICS (AMERICA), INC.

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 operating 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)

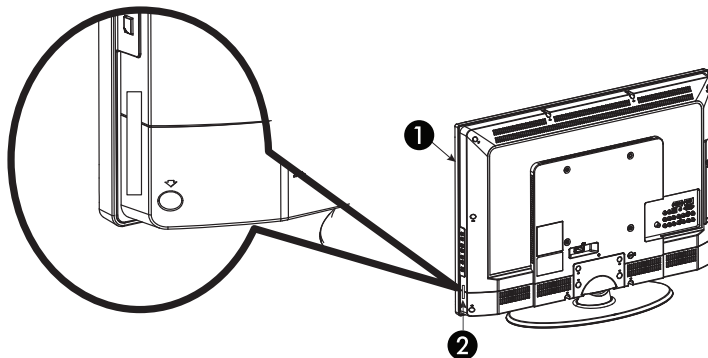
Lundi~ Vendredi 8:00 am – 7:00 pm HNC
Samedi 10:00 am – 5:00 pm HNC

Hitachi Home Electronics
(America), Inc.
Customer Service Support
PO Box 3900
Peoria, IL 61612
U.S.A. customerservice.ce@hhea.hitachi.com
Canada: customerservice.ca@hhea.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.

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



Model Name _____

Serial Number _____

Limited Warranty

Congratulations on your purchase of a new Hitachi display product.

LIMITED WARRANTY

Hitachi Home Electronics (America), Inc. 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) 32-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.



CERTIFIED
SERVICE
CENTER

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.

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-homeelectronics.us :

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

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.

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

Warranty Limitations

This Hitachi Limited Warranty does not cover:

- Any Product that has been modified or repaired in a manner not previously authorized by Hitachi in writing.
- Any Product whose serial number has been removed, altered, replaced, defaced or rendered illegible.
- Any defect, malfunction, or failure caused by or resulting from improper or unauthorized service, maintenance or repair.
- Damage resulting from abuse, misuse, mishandling, neglect or damage caused by exposure to hostile operating environments such as areas containing dust and/or smoke.
- Damage caused by power surges, accidents, natural disasters or any other events or circumstances outside Hitachi's control.
- Any Product used in any manner inconsistent with the acceptable set-up, usage, safety or installation configurations identified in the Product's Operating Guide.
- Any Product used for purposes or applications, or subjected to operating conditions, other than those identified as acceptable in the Product's Operating Guide.
- 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.
- Improper uncrating, set-up or installation or any misadjustments caused by user-operated controls.
- 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).
- Product cabinets, cabinet parts, knobs, batteries or accessories.
- Product screens that have been cleaned by any method other than as specified in the Product's Operating Guide.
- 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.
- 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.)
- Any Product purchased or serviced outside the United States of America and Puerto Rico.
- Any Product that has been used for commercial purposes.

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LIMITED WARRANTY

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 - c. You may not modify, adapt, translate, reverse engineer, decompile, disassemble or make derivative works from the Software or use the Software in combination with any non-Hitachi software; and
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10. **TERMINATION.** **HITACHI** may terminate this Agreement immediately at any time by providing notice to you.
11. **GOVERNING LAW; SEVERABILITY.** This Agreement will be governed by the laws of the State of New York, and you consent to the exclusive jurisdiction and venue in the federal courts sitting in the Southern District of New York, unless no federal subject matter jurisdiction exists, in which case you consent to the exclusive jurisdiction and venue in the Borough of Manhattan, New York, USA.

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AC3 decoder	liba52.c	www.liba52.sourceforge.net	GNU General Public License Version 3
PNG decoder	libpng 1.0.2	www.libpng.org/pub/png/libpng.html	http://www.libpng.org/pub/png/src/libpng-LICENSE.txt
zlib	Zlib 1.1.3	www.zlib.net	http://www.zlib.net/zlib_license.html

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TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- The work must carry prominent notices stating that you modified it, and giving a relevant date.
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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause

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this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
- e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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Appendixes

Appendix A: Picture Format for Each Input Source

Aspect Specifications

Yes: Available

--: Not Available

Input Signal			Aspect					
			Auto	4:3	16:9	Full	Zoom1	Zoom2
AIR / CABLE Analog	Video		Yes	Yes	Yes	--	Yes	Yes
AIR / CABLE Digital	YCbCr / YPbPr		Yes	Yes	Yes	--	Yes	Yes
AV 1	Video / S-Video		--	Yes	Yes	--	Yes	Yes
AV 2	Video		--	Yes	Yes	--	Yes	Yes
COMPONENT 1	YPbPr		Yes	Yes	Yes	--	Yes	Yes
COMPONENT 2	YPbPr		Yes	Yes	Yes	--	Yes	Yes
HDMI 1	HDMI / DVI	1080p/1080i/ 720p/480p/480i	Yes	Yes	Yes	Yes	Yes	Yes
		VGA	Yes	--	--	Yes	--	--
HDMI 2	HDMI	1080p/1080i/ 720p/480p/480i	Yes	Yes	Yes	Yes	Yes	Yes
		VGA	Yes	--	--	Yes	--	--
HDMI 3	HDMI	1080p/1080i/ 720p/480p/480i	Yes	Yes	Yes	Yes	Yes	Yes
		VGA	Yes	--	--	Yes	--	--
HDMI 4	HDMI	1080p/1080i/ 720p/480p/480i	Yes	Yes	Yes	Yes	Yes	Yes
		VGA	Yes	--	--	Yes	--	--
RGB	Analog RGB		Yes	--	--	Yes	--	--

Appendix B: RGB Format

Resolution	Frequency(Hz)	Remarks	Resolution	Frequency(Hz)	Remarks
640x480	60/72/75		1360x768	60	L32A403 only
720x400	70		1280x1024	60	L42A403 only
800x600	56/60/72/75		1440x900	60	L42A403 only
1024x768	60/70/75		1680x1050	60	L42A403 only
1280x720	60		1920x1080	60	L42A403 only
1280x768	60				

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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