

46 | 42 ULTRATHIN LED LCD HDTV

Model LE46S605

46" Class (45.99 Diagonal)

Model LE42S605

42" Class (42.02 Diagonal)



Owners Guide

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

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

MODEL NAME. _____ SERIAL NO. _____

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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: 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.

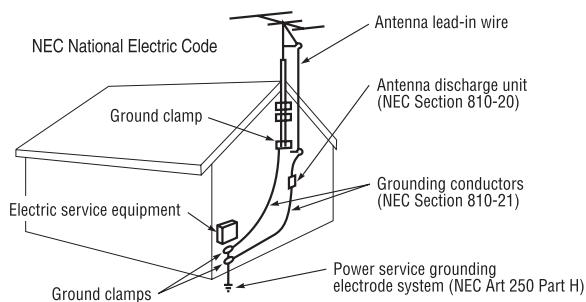
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with 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.
19. Wall Mount Bracket – For use only with UL Listed Wall Mount Bracket with minimum weight/load: Please see pages 8, 53 and 54 for further details.
20. The equipment shall be used at maximum ambient temperature of 95°F.

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 volts 60 Hz outlet. The mains plug is used as the disconnect device and shall remain readily operable.



Important Safety Instructions



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 owners guide for more energy saving tips.



CAUTION

- *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.*

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 no objects filled with liquids, such as vases, should 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 paper-view uses only unless otherwise authorized. Reverse engineering or disassembly is prohibited.

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.

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 America, Ltd. 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 or power code supplied with the system must be replaced with identical parts in order to assure compliance with FCC rules.

You may order those replacement parts from Hitachi.

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

DECLARATION OF CONFORMITY

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions :

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

For questions regarding this declaration, contact:

Hitachi America, Ltd.
900 Hitachi Way
Chula Vista, CA 91914-3556
Tel. 800.448.2244(800.HITACHI)
ATTN: Customer Relations

LEAD NOTICE

This product contains lead. Dispose of this product in accordance with applicable environmental laws. For product recycling and disposal information, contact your local government agency or www.eRecycle.org (in California), the Electronic Industries Alliance at www.eiae.org (in the U.S.) or the Electronic Product Stewardship Canada at www.epsc.ca (in Canada). For more information, call 800.HITACHI.

Important Safety Instructions

CHILD SAFETY:

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

Congratulations on your purchase!

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



HITACHI CARES!

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

TUNE INTO SAFETY

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



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

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



www.CE.org/safety

Important Safety Instructions

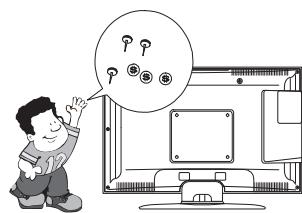
Do not place the unit on uneven surfaces, this may drop or damage the unit, it may also cause personal injury.



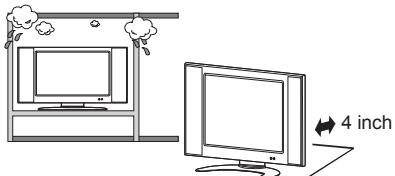
Unplug immediately if there is a malfunction on the TV like no picture, no video/audio or if there is smoke and bad odor coming from the TV.



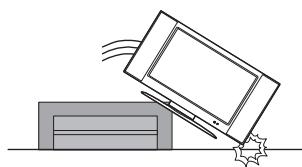
Do not throw any objects inside the TV like metals, coins or any other flammable materials.



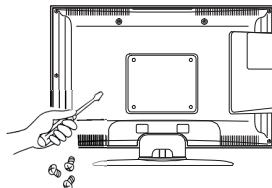
Do not place the TV in confined spaces or inside a box when the TV is operating.



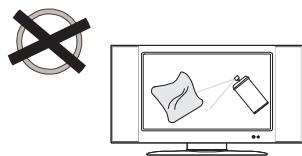
Unplug immediately if any foreign materials falls into the TV or if the TV fell down.



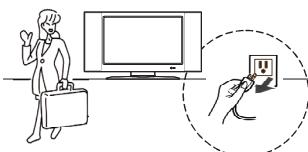
Do not open the TV cabinet.



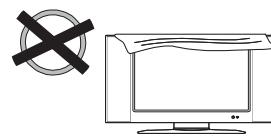
Remember to unplug the power cord from the AC outlet before cleaning. Do not use liquid cleaners or aerosol cleaners to clean the display.



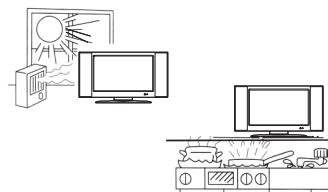
Make sure to unplug the TV when not in use for a long period of time (days).



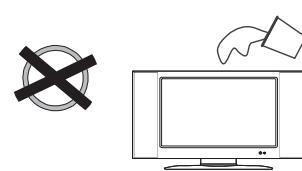
Do not cover or block any vents and openings of the TV. Inadequate ventilation may shorten the life of the display unit and cause overheating.



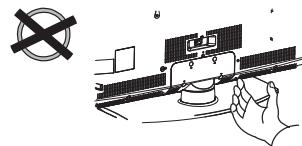
Avoid direct sunlight, dusty, high humidity and smoky locations.



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



Do not pick up or handle the TV from where the TV connects to the stand. Injury may occur if the TV is picked up or handled from this area.



Notice for Remote Control

Avoid dropping the unit.



Avoid liquids on it.



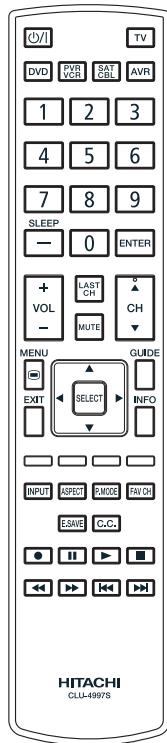
Avoid aerosol cleaners.



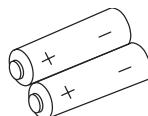
Accessories

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

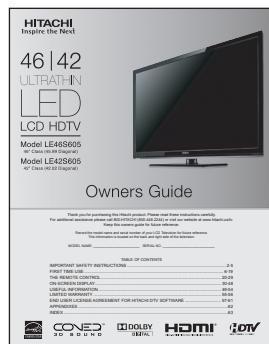
- ① Remote Control Unit
CLU-4997S
(Part No.: HL02567)



- ② "AAA" Size Batteries (2)



- ③ Owners Guide



- ④ Easy Graphic Guide

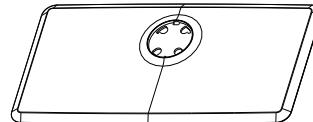


- ⑤ Stand Screws (4)



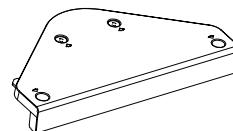
(M6x12, Part No.: Q01G6145 1)

- ⑥ Stand Base



Part No.: A34T1854AFL 1L0100 &
Q15T0798201

- ⑦ Hinge cover for wall mount



(Part No.: P34T0580AHG 1G01BQ)

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

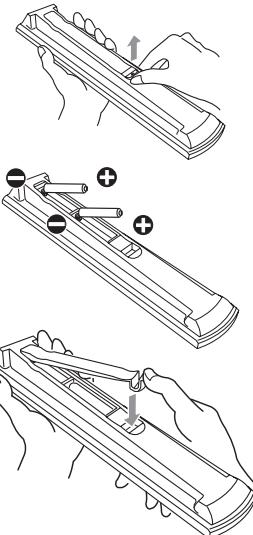
REMOTE CONTROL BATTERY INSTALLATION AND REPLACEMENT

The remote control operates on 2 "AAA" batteries.

1. Open the battery cover of the remote control by pushing and pulling it in the direction of the arrow.
2. Insert two new "AAA" 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, and make sure the tabs rest in the corresponding holes and push down 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.
- The batteries (batteries installed) shall not be exposed to excessive heat such as sunshine, fire, etc.



How To Install Your New Hitachi LCD Television

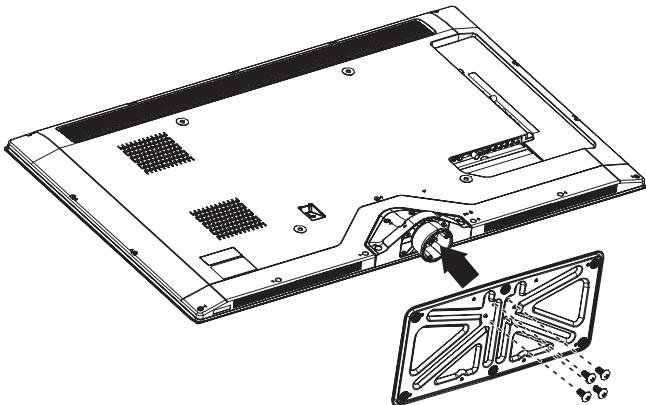
Take the following precautions to prevent the LCD Television from tipping over and possibly causing injury. It is important to mount the unit on a stable and flat surface.

ASSEMBLY OF THE BASE

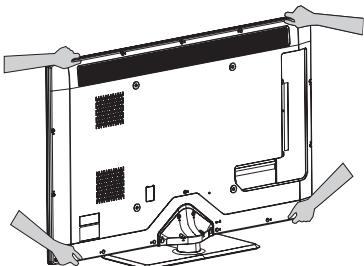
IMPORTANT:

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 bottom 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 bottom on both sides of the Television for stability.

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

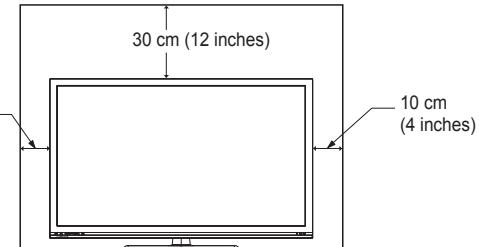
Please use caution when handling the left and right bottom corners of the TV, as these areas protrude slightly from the TV's frame. Handle this area with care to avoid damaging the unit and the possibility of personal injury.

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.



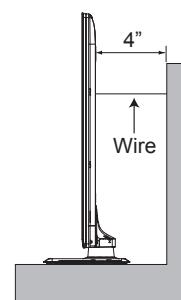
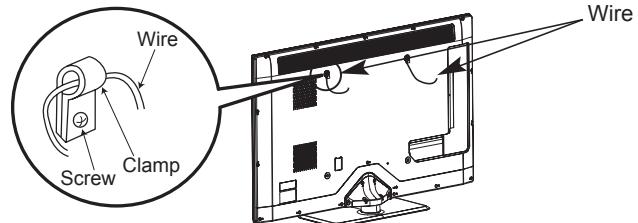
NOTES

- 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 power cord and contact 800.HITACHI.
- If you purchased a wall mount bracket, it is recommended that you ask for professional installation.
- 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.



SECURING TO A WALL

1. Use a metallic wire (two locations) to 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:



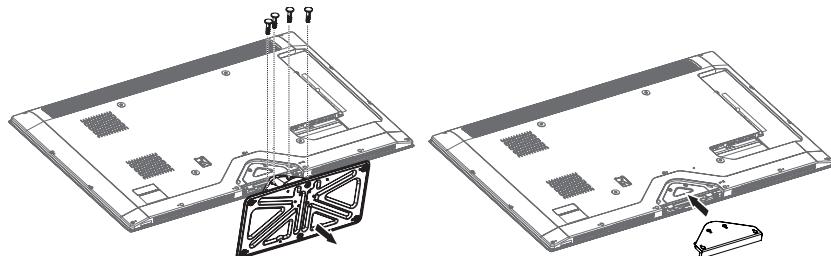
How To Install Your New Hitachi LCD Television

WALL MOUNTING SETUP

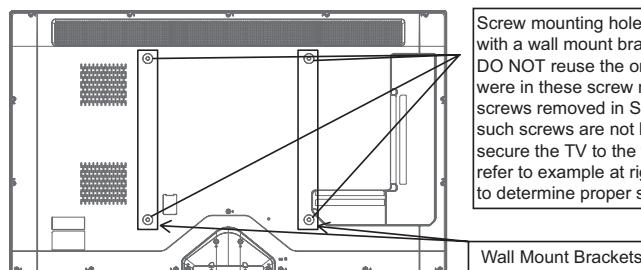
STEP (1) : REMOVE THE STAND BASE FROM THE LCD TELEVISION

In order to remove the stand from the TV safely, please put the TV set on a soft and flat surface (blanket, foam, cloth, etc.) to prevent any damage; then remove the screws to separate the STAND from the TV. Useful dimensions for the WALL MOUNT assembly are illustrated on page 53 and 54.

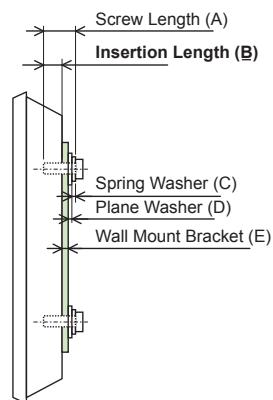
Use the screws removed from separating the STAND to secure the hinge cover.



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



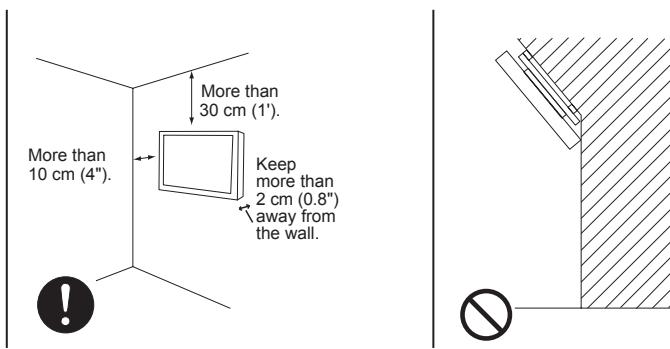
Screw mounting holes (4 locations) for use with a wall mount bracket.
DO NOT reuse the original screws that were in these screw mounting holes or the screws removed in STEP(1) above, as such screws are not long enough to properly secure the TV to the wall bracket. Please refer to example at right and caution below to determine proper screw length.



Example:
A = B+C+D+E
A: 14.5~16.5 mm.
B: 9.5~11.5 mm.
C: 1 mm.
D: 1 mm.
E: 3 mm.

- 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).
- CAUTION**
- 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 panel.
 - This LCD television product is designed for a maximum tilting angle of 45 degrees from vertical.
 - Insertion length (B) of the screws must be within 14.5~16.5 mm. If the length is less than specified, the TV's weight cannot be maintained. If the length is more than specified, a space is created between the Wall Mount Bracket and the LCD Television. This insertion length is **very important**.

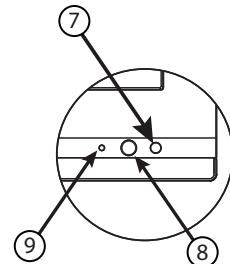
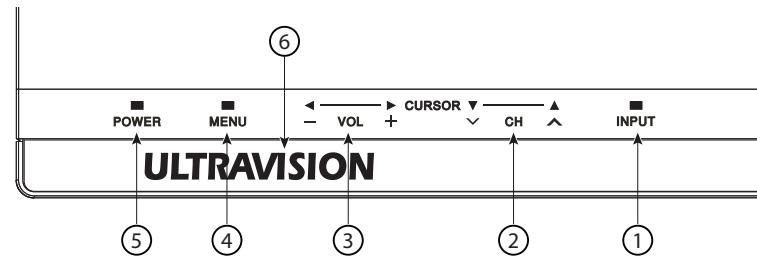
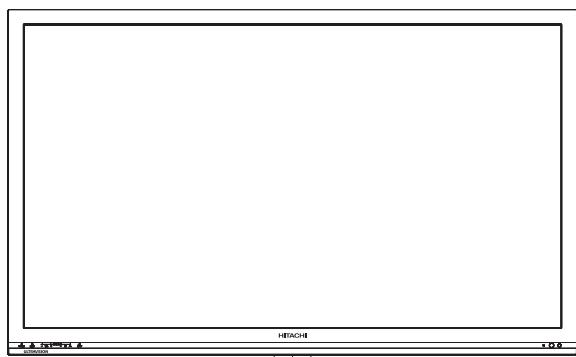
STEP (3) : TIPS TO CONSIDER FOR THE LOCATION OF THE LCD TELEVISION.



- Do not block the ventilation holes. In addition please keep a certain distance around the TV and make sure not to obstruct ventilation. Blocking the ventilation holes may cause fire or defect.
- CAUTION**
- If you purchased a Wall Mount bracket, it is recommended that you ask for professional installation.
 - 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:
 - the weight-bearing strength and stability of the intended wall mount surface; and
 - the weight-bearing strength and compatibility of the intended wall mount brackets/device.



① INPUT Button

Press this button to access the INPUT menu.

② 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 (\blacktriangledown) and up (\blacktriangleup) buttons when in the MENU system.

③ 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 (\blacktriangleleft) and right (\blacktriangleright) buttons when in the MENU system.

④ MENU Button

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

⑤ POWER Button

This 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 outlet.

⑥ ACCENT Light

The Accent Light illuminates when the TV is turned on. Its brightness can be adjusted. (See page 42.)

⑦ LIGHT Sensor

This area detects ambient light level for automatic screen brightness control.

⑧ REMOTE CONTROL Sensor

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

⑨ POWER Light Indicator

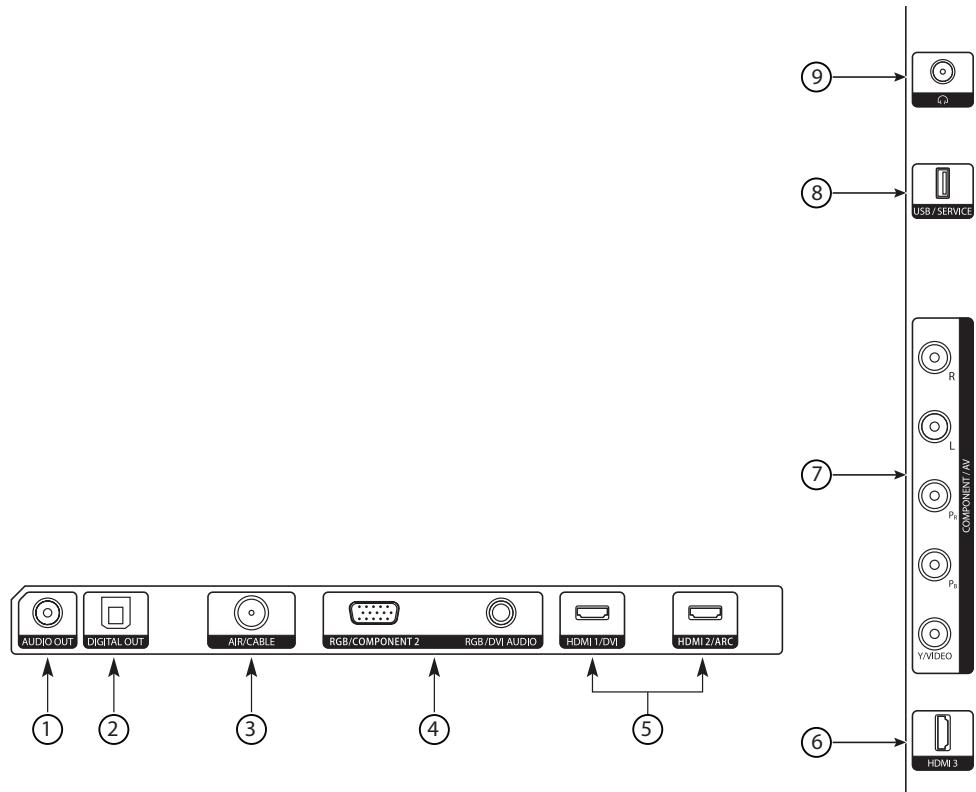
To turn the TV ON, press the POWER button (⑤). A blue indicator lamp located on the lower right corner of the front bezel illuminates to indicate the TV power is ON.

Indicating Lamp	Power Status	Operating
Lights Red	OFF (Stand-by)	When the LCD TV is plugged to the AC outlet.
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.

NOTES

- Your Hitachi LCD TV will not show any picture if there is no video input when HDMI 1/DVI, HDMI 2/ARC, HDMI 3, Component, or AV 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 control various devices and any compatible HDMI CEC devices.
- Please do not put anything around the remote control sensor.

Side/Rear Panel Jacks



① AUDIO OUT Jack

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

② DIGITAL OUT (Optical Digital Audio)

This jack provides Digital Audio Output for your audio device that is RAW and PCM compatible, such as an audio amplifier.

NOTE

- The Digital Output option will gray out with all input sources, except for HDMI input and DTV with a digital program channel on the AIR/CABLE input source.*

③ AIR/CABLE Terminal

To switch between Cable and Air, go to the Channels Menu option to change the signal source for Cable or Air (See page 45).

④ RGB/COMPONENT 2, RGB/DVI AUDIO

This **RGB/COMPONENT 2** input provides **PC** or **Y-PbPr** video connection.

This **RGB/DVI AUDIO** input provides **PC**, **DVI**, or **Y-PbPr** audio connection.

To do the **COMPONENT 2** connection, you will have to attach your RGB-to-COMPONENT adaptor, and select option **Y-PbPr on VGA** in the **OSD Setup Menu**. (See page 44 for details)

⑤⑥ HDMI 1/DVI, HDMI 2/ARC, HDMI 3

Use these HDMI inputs for AV connection such as set top boxes or DVD players equipped with an HDMI output. (See page 15 for reference)

⑦ COMPONENT/AV: Y-PbPr Video and Audio L/R Inputs

Component/AV provide Y-PbPr and Audio jacks for connecting device 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 component B-Y output to the TV's Pb input and the component 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 32).*

⑧ USB MULTIMEDIA/SERVICE Slot

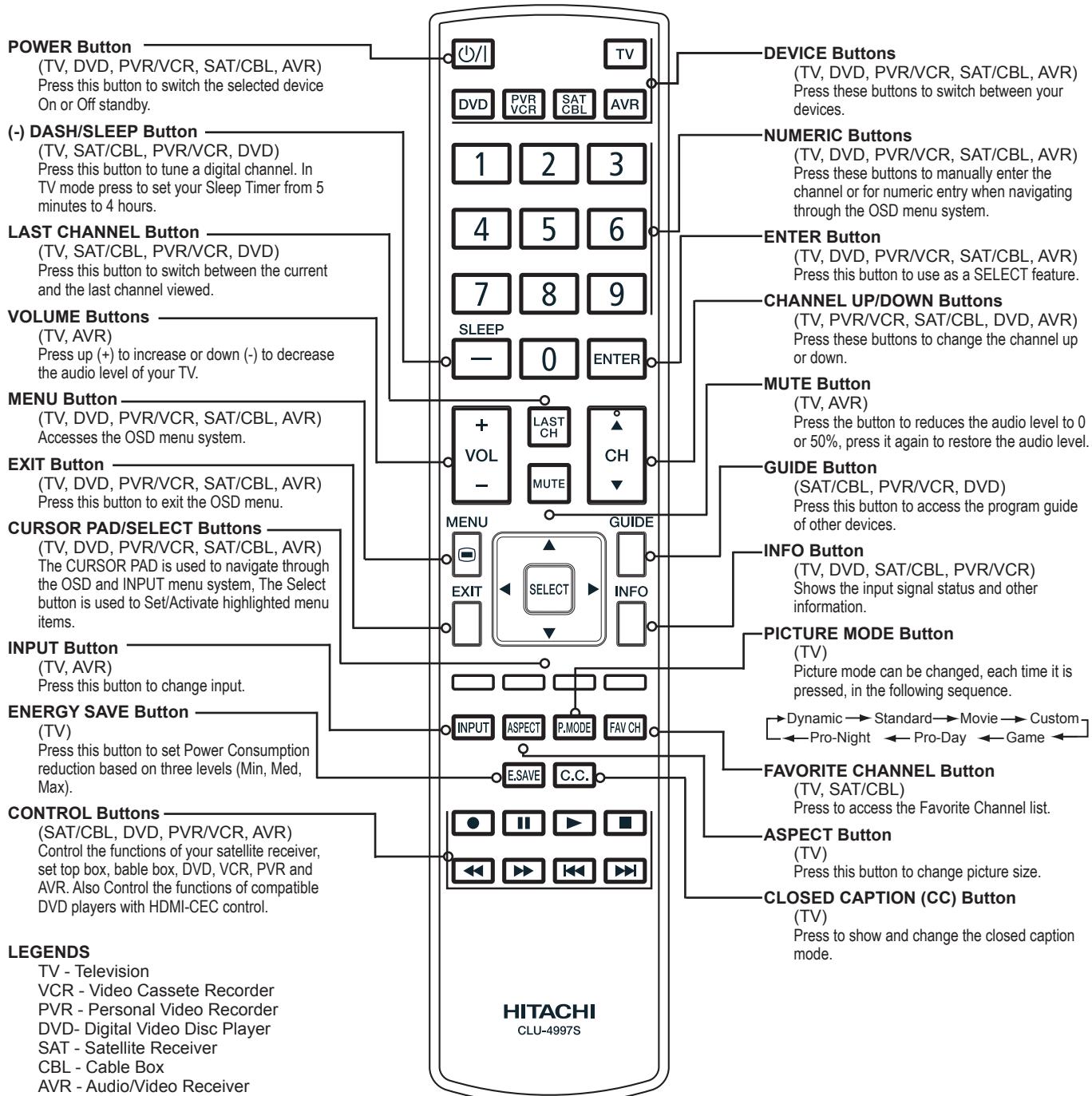
This USB slot is for use with the multimedia feature and future software upgrades. (See page 48 for reference)

⑨ HEADPHONE Jack

Use this jack to connect headphones.

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 devices, such as, DVD Players, cable boxes (CBL), set top boxes, satellite receivers (SAT), VCRs and compatible HDMI CEC DVD Players. The remote control must be programmed to control the chosen device. Please see pages 20 ~ 29 for a complete description of all features and programming of the remote control.



NOTES

- The TV's remote control sensor is located at the right bottom corner of the TV frame. To control TV functions, please point the remote control directly at the sensor for best controlling.
- The pause button "II" on the remote control can be used to freeze the picture on the screen, in case this button is pressed by accident, please press it one more time to restore the moving picture.
- For HDMI CEC details, please see page 42.

Quick Setup Guide

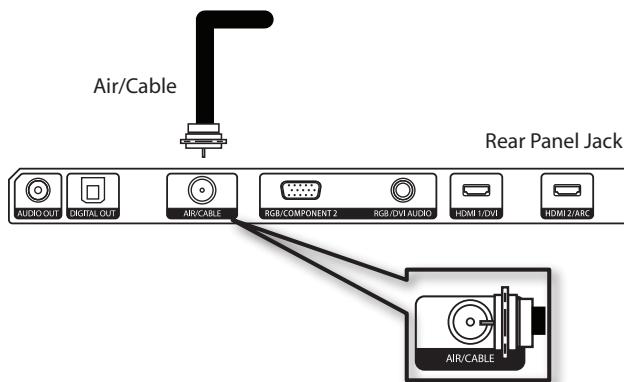
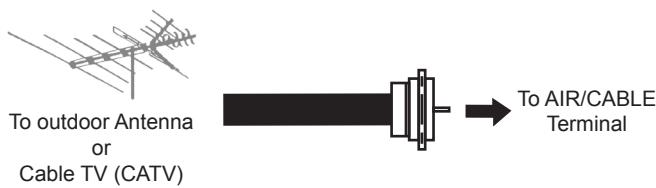
Perform the following steps to quickly setup your new Hitachi LCD Television Set.

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.

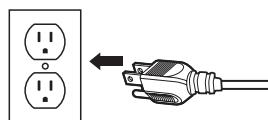
VHF (75-Ohm) antenna/CATV (Cable TV)

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.

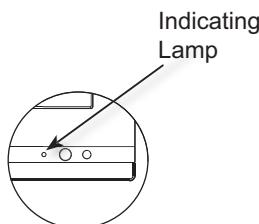


2. CONNECT YOUR NEW HITACHI LCD TV TO THE POWER SOURCE

- Connect the power cord to the AC outlet.

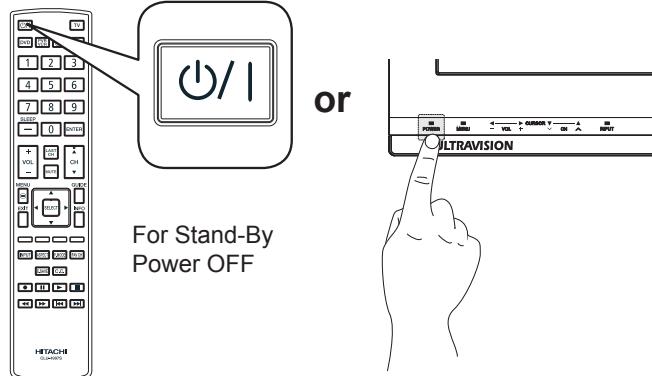


- The Indicating Lamp will light red (Standby mode).



3. POWER ON/OFF YOUR NEW HITACHI LCD TV

Press the POWER button on the remote control or the POWER button on the Front Control Panel to power on/off the LCD TV.



NOTE

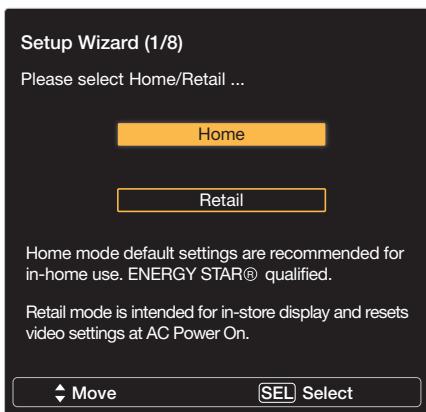
- If the Indicating lamp is off, the POWER button on the remote control will not operate. Please make sure that the power cord is plugged to the AC outlet.

4. FOLLOW THE TV SETUP WIZARD INSTRUCTIONS ON NEXT PAGE

TV Setup Wizard

For the first time after powering on your Hitachi LCD TV, the following illustration of Setup Wizard appears on the TV screen, and will guide you through the initial setup step-by-step.

The first step of the initial setup is the energy saving mode. Here you can select either **Home** or **Retail** mode.



The **Home** mode is intended for home use, and will save much energy, compared to the showroom Retail mode which sets the TV to a more energy consumptive mode.

If later you want to change the mode, you can change it via the **Home/Retail** selection under **Energy Options** on the **Setup** menu (See page 41).

NOTE

- Any menu or control changes in this mode will not be saved when the TV is turned off.

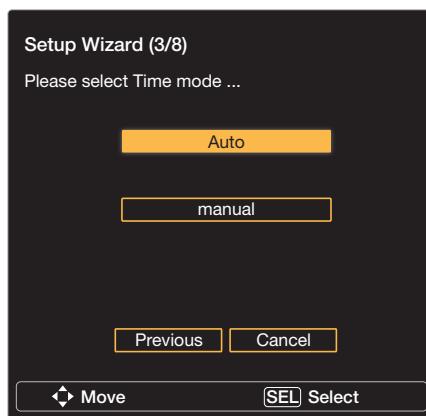
The second step is to set the language used for the TV On-Screen-Display Menu.

Press the CURSOR PAD ▲ or ▼ on your remote control to select your language. Press the SELECT button to confirm.



The third and fourth steps are to set the date and time.

There are two options; one for automatic time setting in which you will be able to select only the time zone of your area, and another for manual setup.



Press the CURSOR PAD ▲ or ▼ on your remote control to select **Auto** for automatic setting. At the following step, you will need to select only the time zone of your area.



If you select **Manual** for manual setting, you can set up your local time in detail at the following step.



TV Setup Wizard

The fifth step is to select broadcasting or cable channels. There are two options: **Air** for an external antenna, and **Cable** for a cable system provider in your area. Use the CURSOR PAD ▲ or ▼ to select, and press SELECT button to confirm.

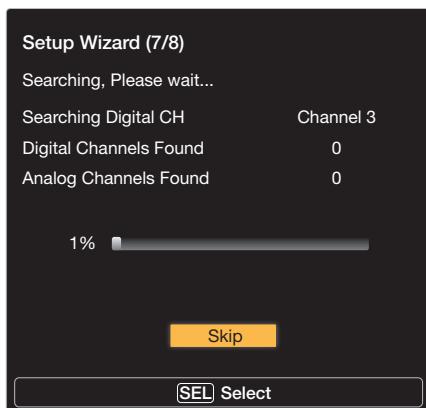


The sixth step will start the scanning feature to find the channels available on the antenna or cable system. Press SELECT button to start the channel scan.



The seventh step is the channel scanning process. The Setup Wizard shows the scanning process of digital channels first, and then the analog channels next. The scanning process will show how many channels in total have been found. Please wait while the scanning process is searching for the available channels in your area.

To cancel the process, press SELECT button on the remote control.



NOTES

- Once you cancel the Setup Wizard, it will not be shown again.
- During the scanning process, if you find not connecting antenna cable to TV, turn off the TV, unplug the power cord, and connect the antenna cable according to the Antenna Connection in the "First Time Use" section of this Owners Guide.

The final step is the completion of process. The TV screen shows a brief message that the setup is done. This final message will be shown for only a few seconds and then the first detected channel will be tuned in.

You may press EXIT button on the remote control to tune to the first detected channel right away.



NOTE

- The Setup Wizard will not appear once you have completed. For updating and adding channels, refer to the **Add Channels to List** feature on page 45.

The following connection diagrams are offered as suggestions. However, you may need to modify them to accommodate your particular assortment of devices and features. For best performance, video and audio cables should be made from coaxial shielded wire.

Panel Connections

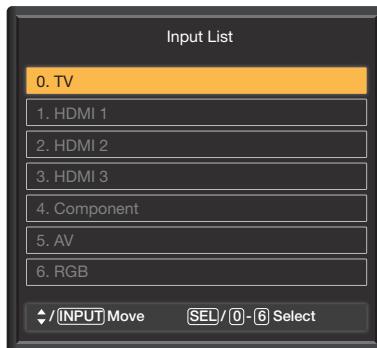
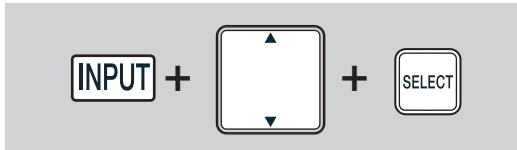
Your Hitachi LCD TV provides an easy connection of audio and video sources. Locate the input at the back of the TV, and connect as the illustration shown here.

NOTES

- Cables are not included.*
- Completely insert connection cord plugs, otherwise, the picture and/or sound may be abnormal.*
- Cable plugs are often color-coded. Match colors of plugs and jacks, i.e. connect red to red, white to white, etc.*

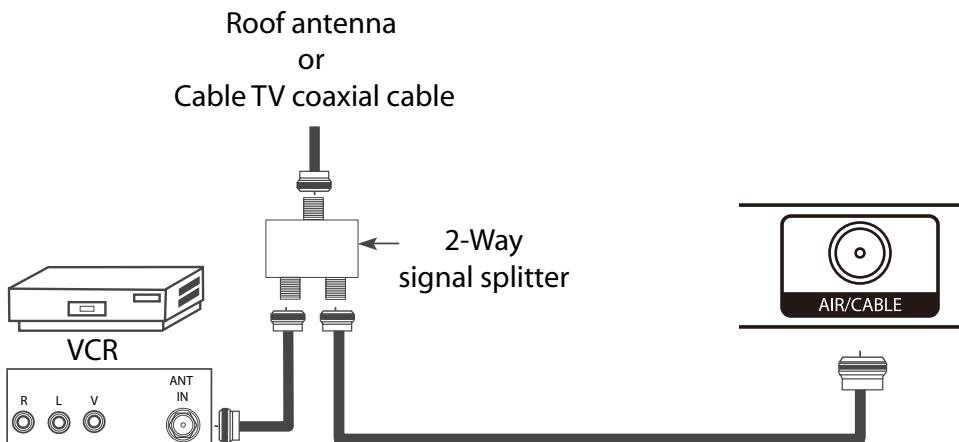
Before Operating External Video Devices

Connect an external device to one of the input jacks, then press the INPUT button to show the Inputs List. Use the CURSORS (\blacktriangle and \blacktriangledown) to select the input of your choice. Then press the SELECT button to confirm your choice (See page 21).



Example: Highlight **0. TV** to select TV (AIR/CABLE) input.

ANTENNA CONNECTION

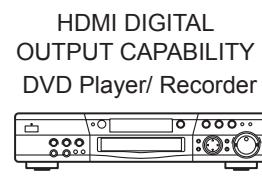


HDMI CONNECTION

There are three HDMI jacks provided as a convenience to allow easily connecting HDMI or DVI signals from a DVD, set top box, or Video Game as shown in the following examples (A separate audio device would be needed for a DVI-to-HDMI or RGB-to-COMPONENT connection.)

Connecting HDMI device:

1. Connect with HDMI cable from your HDMI device to the TV **HDMI 3** input.
2. Press the INPUT button on the remote control and select **3. HDMI 3** input source.



Panel Connections

Connecting to external audio amplifier with one HDMI cable:

Besides the normal HDMI connection, the **HDMI 2/ARC** input also provides ARC feature to send audio of all your video sources out to your stereo amplifier for high-fidelity audio reproduction.

1. Connect with HDMI cable to your audio amplifier from the TV **HDMI 2/ARC** input.

NOTE

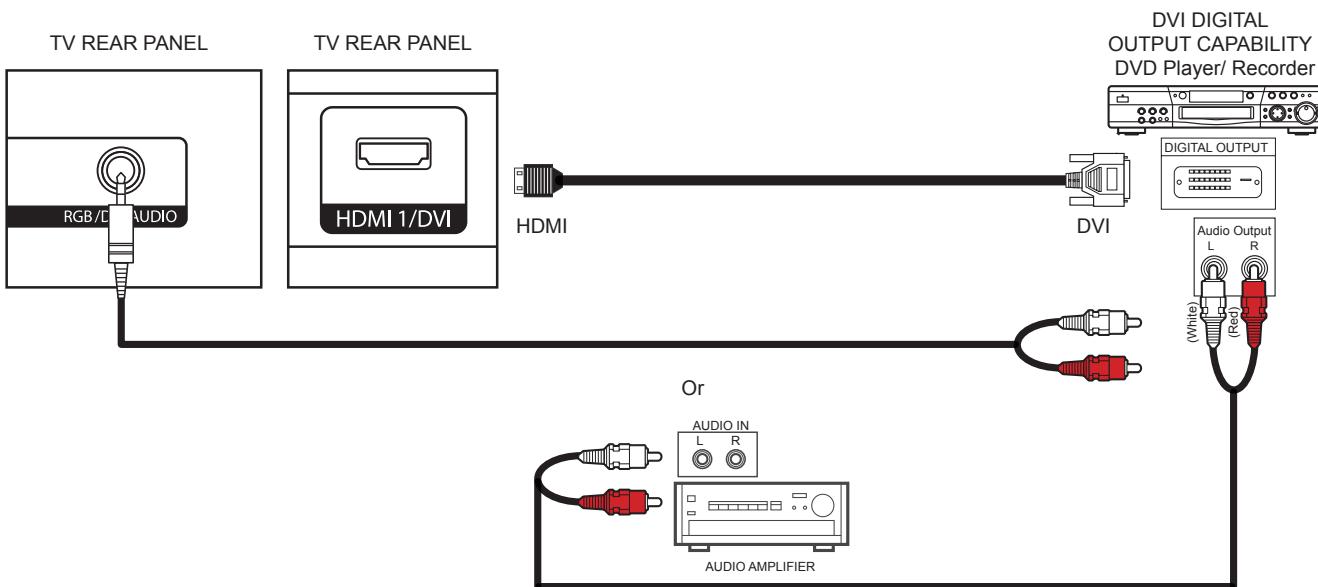
- The **ARC** (Audio Return Channel) feature at this input enables your Hitachi TV to send audio data "upstream" to your A/V receiver or surround audio controller via a single HDMI cable, increasing user flexibility and eliminating the need for any separate S/PDIF audio connection.



Connecting DVI device:

The DVI connection to the HDMI input is only available through the **HDMI 1/DVI** input.

1. Connect with a DVI-to-HDMI cable from your DVI device to the TV **HDMI 1/DVI** input.
2. Press the **INPUT** button on the remote control and select **1. HDMI 1** input source.
3. Connect with a separate audio cable from your DVI device to the **RGB/DVI AUDIO** input.



Tips on HDMI connections:

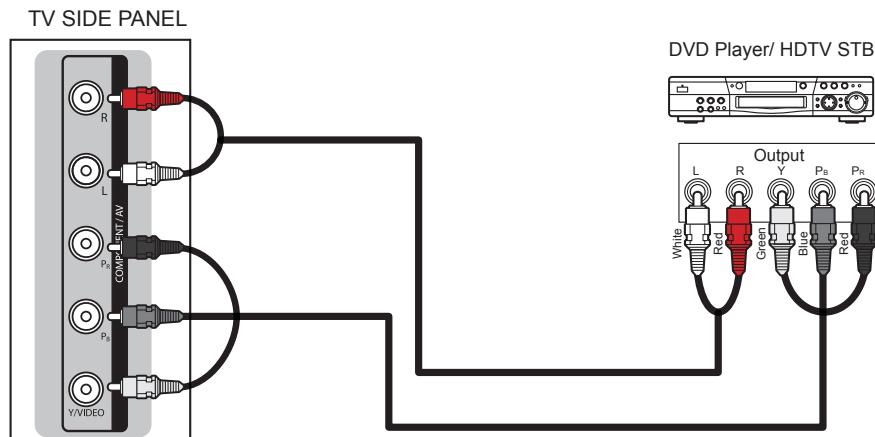
- When using an HDMI input from a set top box, it is recommended to use a 1080p, 1080i or 720p input signal.
- When the HDMI input is a 1080p signal, it is recommended that the length of the cable should be less than 5 meters.

Panel Connections

COMPONENT/AV CONNECTION

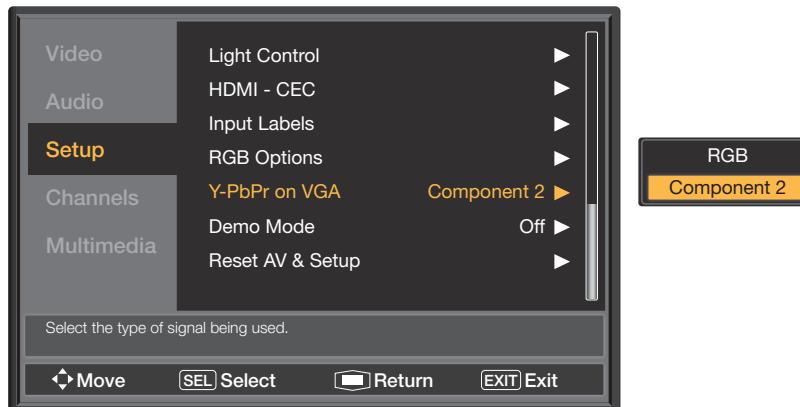
Connecting COMPONENT device:

1. Connect with Y-PbPr video cable from the video output of your AV device to the TV **COMPONENT/AV Y-PbPr** input.
2. Connect with L/R audio cable from the audio output of your AV device to the TV **COMPONENT/AV L/R** input.
3. Press the **INPUT** button on the remote control and select **4. Component** input source.

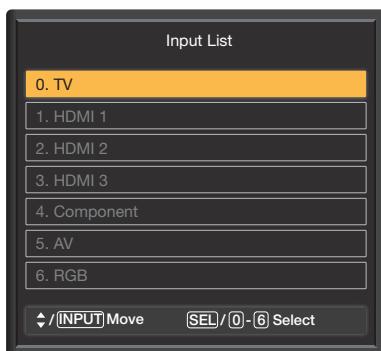


Connecting COMPONENT device to RGB/COMPONENT 2:

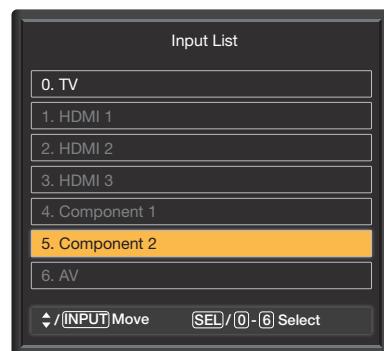
1. Connect with Y-PbPr video cable from the video output of your AV device to the TV **RGB/COMPONENT 2** input.
2. Connect with L/R audio cable from the audio output of your AV device to the TV **RGB/DVI AUDIO** input.
3. Press the **MENU** button on the remote control, enter the **Setup** Menu, and select **Component 2** for the **Y-PbPr on VGA** option.
4. Press the **EXIT** button on the remote control to exit the **Setup** Menu.



5. Now press the **INPUT** button on the remote control and select **5. Component 2** input source.



The original **RGB** input source will now be replaced by **Component 2**.



NOTE

- The **Input List** will be re-numbered after selected **Component 2** for the **Y-PbPr on VGA** option. (See page 44 for how to setup the **Y-PbPr on VGA** option.)

Panel Connections

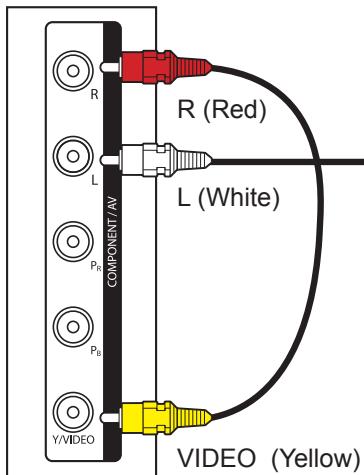
Tips on COMPONENT connections:

- The COMPONENT Y-PbPr connection is 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.
- For additional information on connecting your other electronic devices, please refer to the device's owners guide.
- 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 devices Cb output to the TV's Pb input and the devices 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 32).

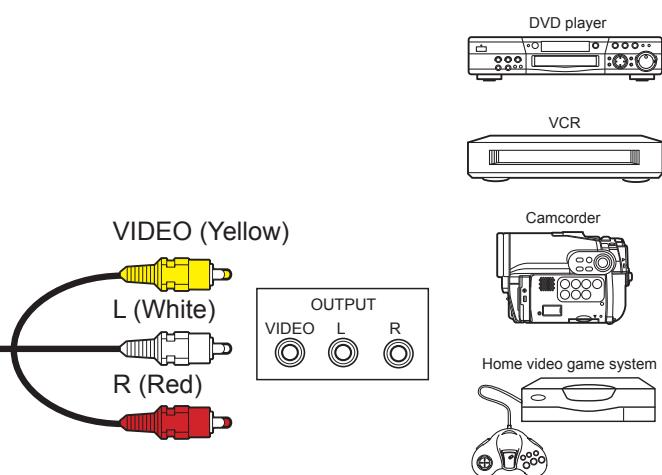
Connecting AV device:

- Connect with AV video cable from the video output of your AV device to the TV **COMPONENT/AV Y/VIDEO** input.
- Connect with L/R audio cable from the audio output of your AV device to the TV **COMPONENT/AV L/R** input.
- Press the **INPUT** button on the remote control and select **5. AV** input source.

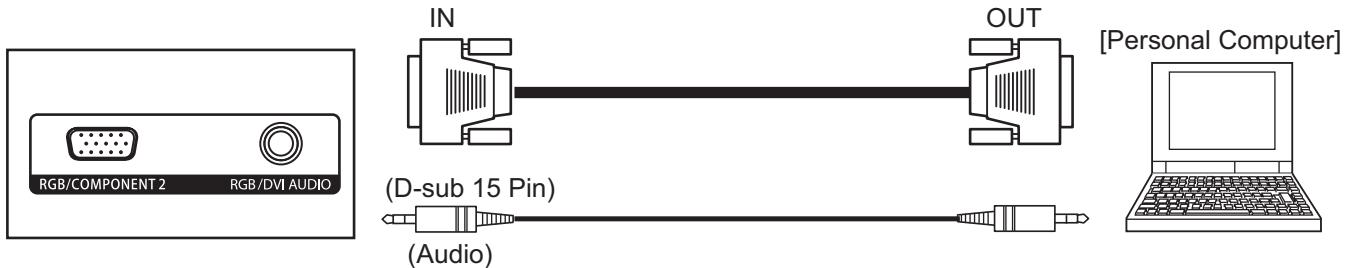
SIDE INPUT PANEL



COMPOSITE VIDEO OUTPUT CAPABILITY



PERSONAL COMPUTER CONNECTION

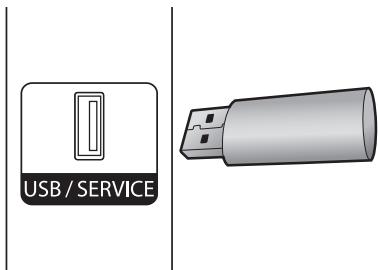


- Connect with RGB (D-sub 15 Pin) video cable from the RGB output of your PC to the TV **RGB/COMPONENT 2** input.
- Connect with an analog audio cable from the audio output of your PC to the TV **RGB/DVI AUDIO** input.
- Press the **INPUT** button on the remote control and select **6. RGB** input source.

Panel Connections

USB DISK CONNECTION

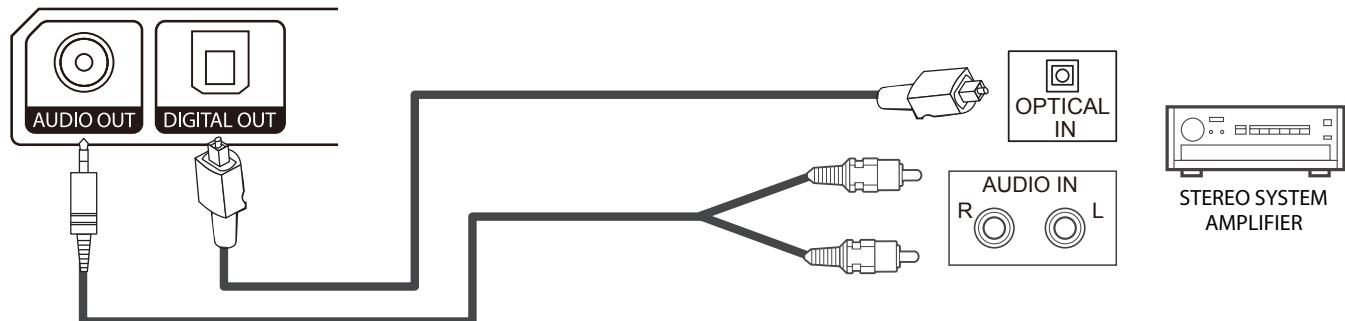
Your Hitachi LCD TV features a JPEG Viewer that allows watching digital still pictures from your USB disk plugged to the USB slot at the side panel. See page 48 for details.



ANALOG/DIGITAL AUDIO OUTPUT CONNECTION

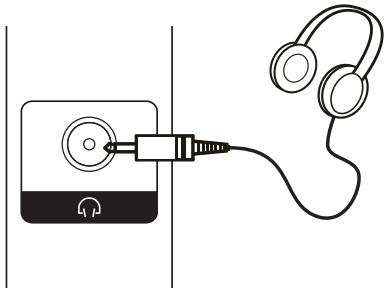
Connect with an analog audio cable from the **AUDIO OUT** jack to your analog stereo audio amplifier.

Connect with an optical fiber cable from the **DIGITAL OUT** jack to your digital stereo audio amplifier.



HEADPHONE CONNECTION

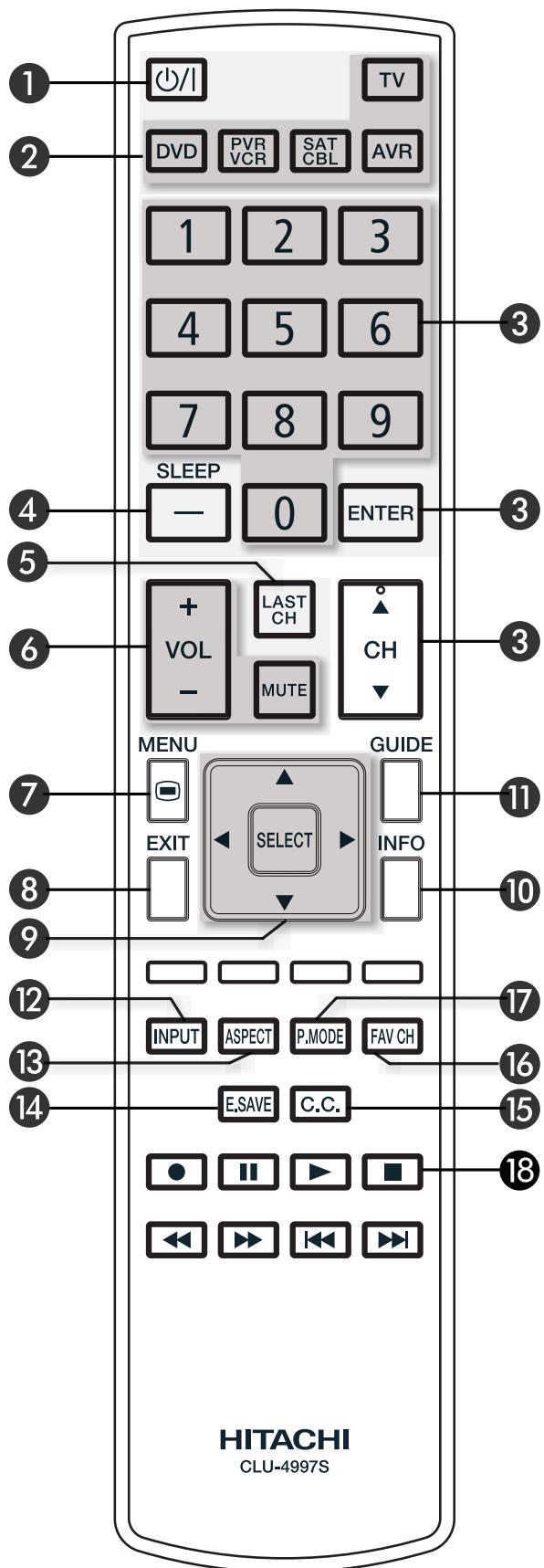
Connect your stereo headphone to this output.



NOTES

- Turn the TV volume down before connecting headphone.
- The audio from the TV speakers will be muted after connected with headphone.

The Remote Control



① POWER Button

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

② DEVICE Buttons

In addition to controlling all the functions on your Hitachi LCD TV, the new remote control is designed to operate different types of VCRs, cable boxes, set top boxes, satellite receivers, DVD players, and other audio/video device with one touch. Basic operation buttons are grouped together in one area.

To operate your LCD TV, select TV by pressing the TV button on the remote control. The TV mode indicator will blink, indicating that the remote control will now control your television.

Repeat the same procedure for other devices. Press the DVD button for DVD players, press the PVR/VCR button for personal video recorders, press the SAT/CBL button for satellite/cable boxes, and press the AVR button for audio video receivers.

See pages 24 ~ 27 for instructions on how to program the remote control to control your device.

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 (\blacktriangle) or CHANNEL (CH) DOWN (\blacktriangledown).

④ (-) DASH/SLEEP Button

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

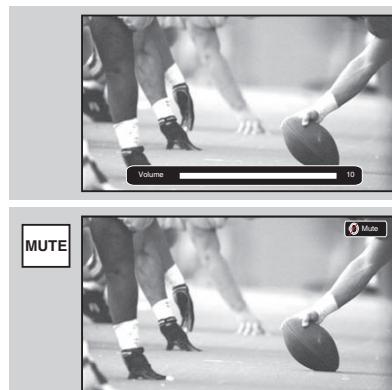
⑤ LAST CHANNEL (LAST CH) Button

Press this button to toggle between the current and the 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**) or half the normal level (**Soft Mute**). To restore the sound, press the MUTE button again for **Mute Off**, or press the VOL UP (+) button directly.



How To Use The Remote Control To Control Your TV

Closed Captioning will display automatically when MUTE is on and Closed Caption is set to **With Mute** (See page 41).

When the TV power is turned off at a volume level 21 or greater, the volume level will default to 20 when the TV is turned on. However, if it is set to a level 20 or less, the volume level will be at the level it was set when the TV was turned off.

7 MENU Button

The MENU button will start the On-Screen Display.

8 EXIT Button

This button will exit all On-Screen Displays.

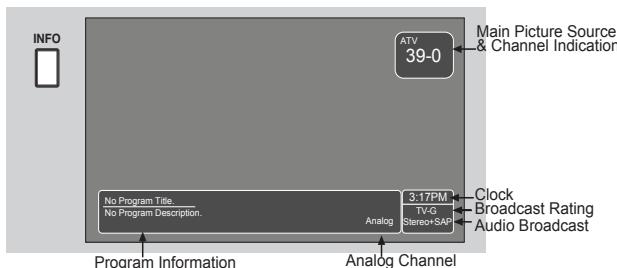
9 CURSOR PAD/SELECT Button

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.

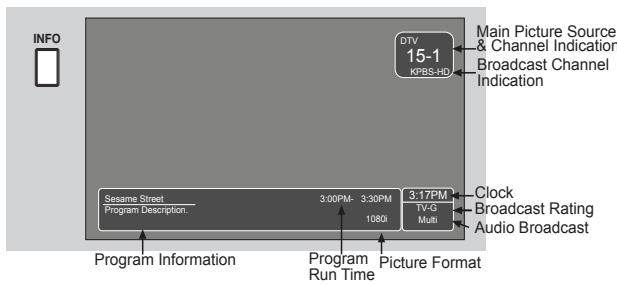
10 INFO Button

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.

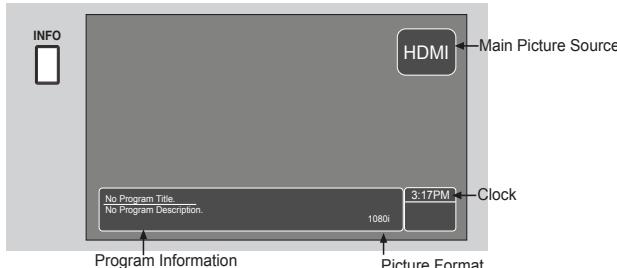
ANALOG CHANNELS



DIGITAL CHANNELS



VIDEO INPUTS



NOTES

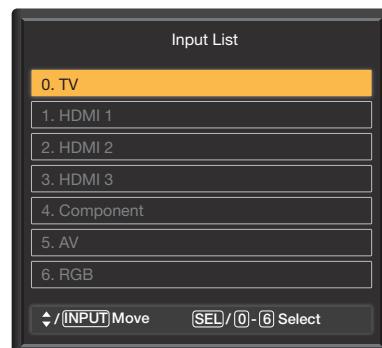
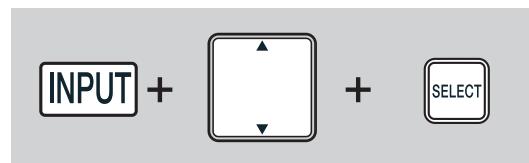
- Press the **INFO** button again or the **EXIT** button to return to normal viewing.
- The **Aspect INFO** will not be shown when the **INFO** button is pressed.

11 GUIDE Button

Press this button to access the Channel Guide of your satellite receiver, set top box or cable box while in SAT/CBL mode.

12 INPUT Button

Press this button to access the INPUTS menu. Use the CURSOR and SELECT buttons to select the desired input. Pressing the INPUT button repeatedly will also cycle through the inputs that are available. 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. HDMI 1 Select to choose HDMI 1 Input.
2. HDMI 2 Select to choose HDMI 2 Input.
3. HDMI 3 Select to choose HDMI 3 Input.
4. Component Select to choose Component Input.
5. AV Select to choose AV Input.
6. RGB Select to choose PC input

NOTES

- Depending on the device, it may be required to turn on the device for the TV to recognize it is available. You can access these inputs by using the cursor or number buttons on the remote control.
- When **Y-PbPr** or **VGA** is set up as **Component 2** (Refer to page 17), the **RGB** input in the **Input List** will be automatically replaced with **Component 2**.

How To Use The Remote Control To Control Your TV

⑬ ASPECT Button

Press this button to quickly change the picture format ASPECT ratio. Depending on the picture format, ASPECT allows you to adjust the image 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% for SD / 97.5% for HD 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.

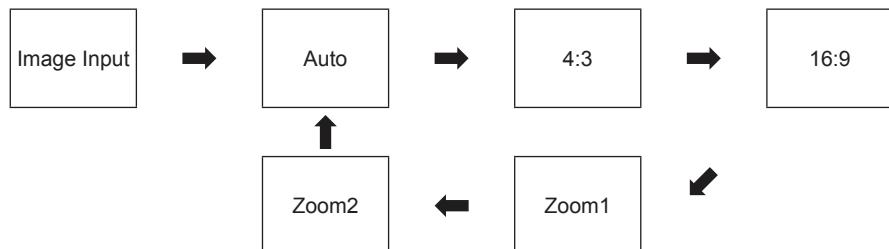
Zoom1/Zoom2

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

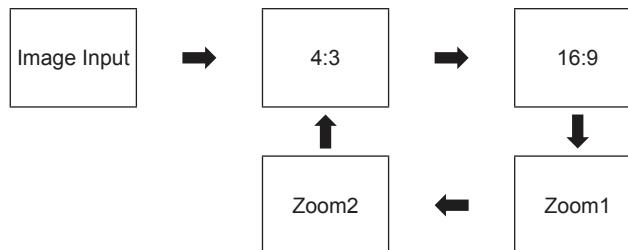
NOTES

- Each input has 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 62 for Aspect availability according to signal format in use.

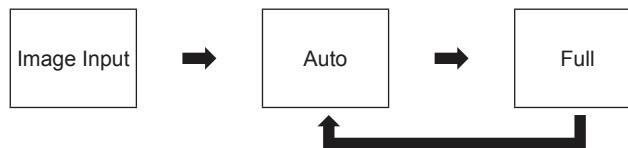
- AIR/CABLE - Analog Signal
- AIR/CABLE - Digital Signal
- COMPONENT



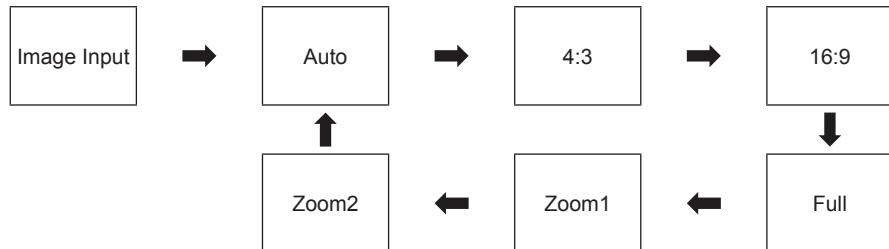
- AV



- HDMI - VGA
- DVI - VGA
- RGB



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



How To Use The Remote Control To Control Your TV

⑯ ENERGY SAVE (E.SAVE) Button

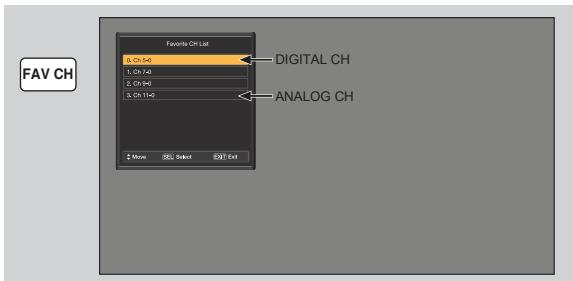
Use this button to choose power consumption reduction settings based on 3 levels (Min, Medium, Max). See page 41 for further details.

⑰ CLOSED CAPTIONS (C.C.) 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 [cc] or [].

⑱ FAVORITE CHANNEL (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 button on the remote control to display the list and select the desired channel using the CURSOR PAD and then press SELECT button to view. Also press to access FAV CH during playback disc on DVD with CEC option connected to HDMI input.



⑲ PICTURE MODE (P.MODE) Button

Press this button to toggle between **Dynamic**, **Standard**, **Movie**, **Custom**, **Game**, **Pro-Day** and **Pro-Night** picture mode settings. Select **Dynamic** mode for automatic brightness and contrast adjustment. Select **Standard** mode for day time viewing with more brightness and contrast to compete with room light. Select **Movie** mode for viewing with less brightness and contrast for a more detailed picture. Select **Custom** mode for viewing with your own brightness and contrast picture settings. **Game** mode is for automatic brightness and contrast adjustment when playing video games.

⑳ DEVICE CONTROL Buttons

These buttons can control external devices (i.e. PVR/VCR, DVD, etc.) directly depending on the device mode set on the remote control. Also, these buttons are for controlling devices with Consumer Electronics Control (CEC) through the HDMI connection like Blu-Ray or DVD players, PVR, set top box while in TV mode.

NOTE

- For some devices, these buttons are not available to control through the TV and HDMI connection; please refer to the device's owners guide for more information.

How To Use The Remote Control To Control Your AV Device

OPERATING THE PRECODED FUNCTIONS FOR YOUR AV DEVICE.

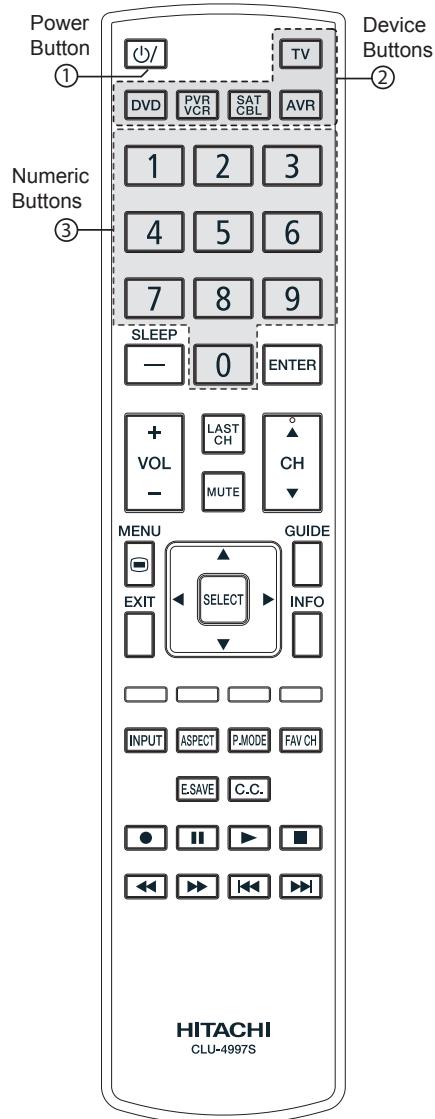
The new remote control is designed to operate different types of VCRs, cable boxes, set top boxes, satellite receivers, DVD players, and other audio/video device. You must first program the remote control to match the remote control system of your AV device (refer to pages 28 ~ 29 for a preprogrammed code number).

AV DEVICE CONTROL SETUP PROCEDURE

1. Turn on your AV Device.
2. Select the desired mode: DVD, PVR/VCR, SAT/CBL or AVR by pressing the corresponding button.
3. Hold down the device button (DVD, PVR/VCR, SAT/CBL or AVR) on the remote control and enter the four digit preset code that matches your device as shown on pages 28 ~ 29.
4. Release the device button.
5. If done correctly, the device LED indicator will blink 3 times to confirm proper setup.
6. The remote control will now control the desired device.

SETUP EXAMPLE (HITACHI CABLE BOX WITH PRECODE 0003)

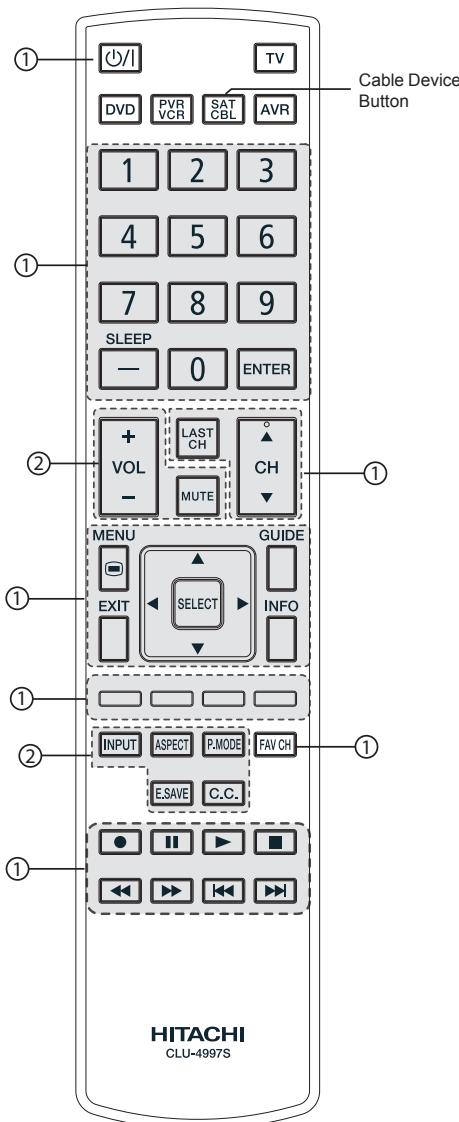
1. Turn ON your cable box.
2. Select cable mode by using your SAT/CBL button to position the LED indicator on SAT/CBL.
3. Hold down the SAT/CBL button on the remote control and press the numbers 0, 0, 0 and 3.
4. Release the SAT/CBL button.
5. The indicator light will flash 3 times if the code was accepted.
6. Aim the remote control at the cable box and press the POWER button. The remote control will turn off your cable box when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your cable box. If the cable box does not turn off, try a different four digit preset code.
7. The remote control will now control your cable box.
Repeat the same procedure for your set top box or satellite receiver (select SAT/CBL), your DVD (select DVD), your VCR/PVR(select VCR/PVR), or your AVR (select AVR).



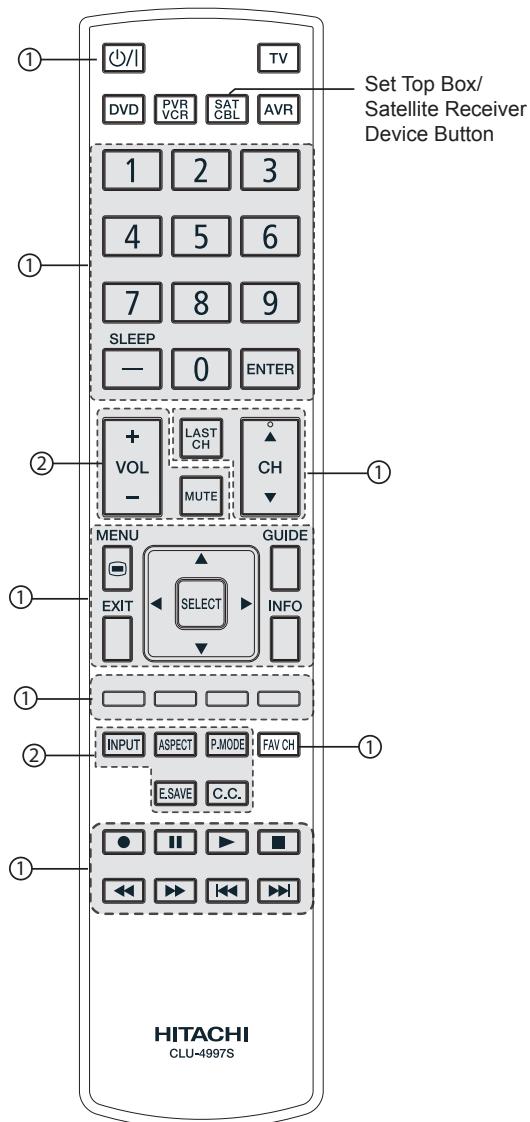
NOTES

- If your AV device cannot be operated after performing the above procedures, your AV device code has not been preprogrammed into the remote control.
- In the unlikely event that your AV device cannot be operated after performing the above procedures, please consult your AV device owners guide.
- The remote control will remember the codes you have programmed even after the batteries are removed from the remote control. To reset all programmed codes to factory default place remote control in TV mode, then press and hold TV mode button and enter "9", "8", "1" in sequence.

How To Use The Remote Control To Control Your AV Device



Cable Device Button



MY CABLE BOX CODE IS: _____

NOTE

- Refer to the instruction manual of the cable box for operation of the buttons exclusively for the cable box.

① PRECODED CABLE BOX Buttons

These buttons transmit the chosen precoded cable codes:

-Power	-Cursor & Select	-Number PAD
-Menu	-Info	-Enter
-Exit	-Channel Up & Down	-Dash (-)
-Guide	-Last CH	-Fav CH
-Play, Stop, Pause, RWD, FWD, Skip FWD, Skip RWD, Record.		-Color Buttons

② EXCLUSIVE TV Buttons

These buttons are for operating the TV :

-P. Mode	-CC	-Input
-Aspect	-Vol Up & Down	-Mute
-E. Save		

MY SET TOP BOX/SATELLITE RECEIVER CODE IS: _____

NOTE

- Refer to the instruction manual of the set top box/satellite receiver for operation of the buttons exclusively for the set top box/satellite receiver.

① PRECODED SET TOP BOX/SATELLITE Buttons

These buttons transmit the chosen precoded set top box/satellite receiver codes:

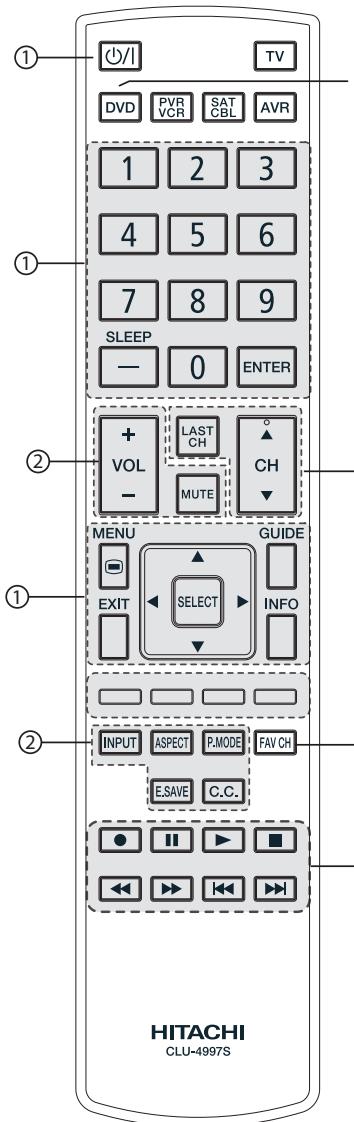
-Power	-Cursor & Select	-Number PAD
-Menu	-Info	-Enter
-Exit	-Channel Up & Down	-Dash (-)
-Guide	-Last CH	-Fav CH
-Play, Stop, Pause, RWD, FWD, Skip FWD, Skip RWD, Record.		-Color Buttons

② EXCLUSIVE TV Buttons

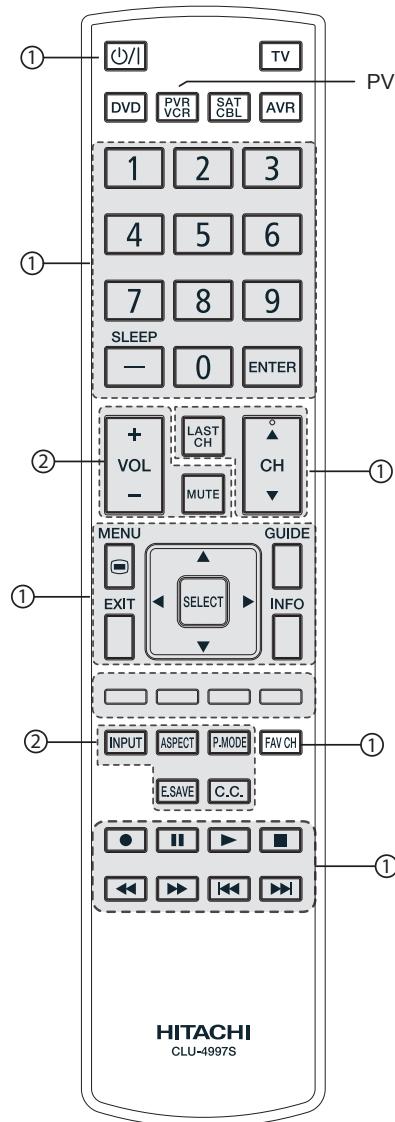
These buttons are for operating the TV :

-P. Mode	-CC	-Input
-Aspect	-Vol Up & Down	-Mute
-E. Save		

How To Use The Remote Control To Control Your AV Device



DVD Device Button



PVR/VCR Device Button

MY DVD PLAYER CODE IS: _____

NOTE

- Refer to the instruction manual of the DVD Player for operation of the buttons exclusively for the DVD Player.

① PRECODED DVD Buttons

These buttons transmit the chosen pre-coded DVD codes:

-Power	-Number PAD	-Play, Stop, Pause,
-Menu	-Info	RWD, FWD, Skip
-Cursor &	-Channel Up & Down	FWD, Skip FWD
Select	-Exit	-Record
-Dash	-Enter	-Guide

② EXCLUSIVE TV Buttons

These buttons are for operating the TV:

-P. Mode	-CC	-Input
-Aspect	-Vol Up & Down	-Mute
-E. Save		

MY VCR/PVR CODE IS: _____

NOTE

- Refer to the instruction manual of the PVR/VCR for operation of the buttons exclusively for the PVR/VCR.

① PRECODED VCR/PVR Buttons

These buttons transmit the chosen pre-coded set top box/satellite receiver codes :

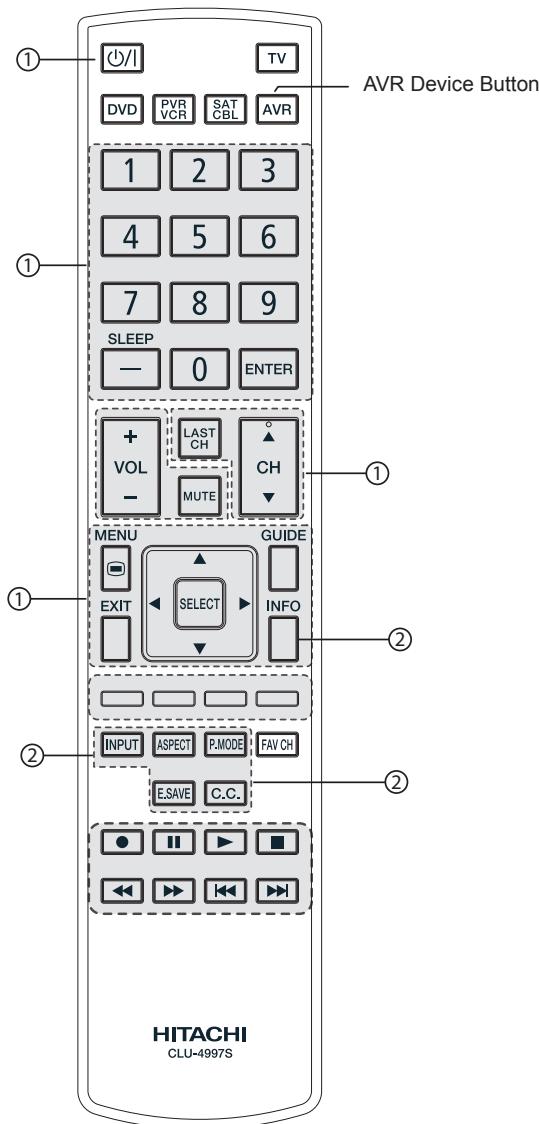
-Power	-Cursor & Select	-Enter
-Menu	-Channel Up & Down	-Dash(-)
-Exit	-Number PAD	-Play, Pause,
-Info	-Last CH	Stop, FWD, Skip
-Record	-RWD, Skip RWD	FWD
-FAV CH (Only for VCR)		

② EXCLUSIVE TV Buttons

These buttons are for operating the TV :

-P. Mode	-CC	-Input
-Aspect	-Vol Up & Down	-Mute
-E. Save		

How To Use The Remote Control To Control Your AV Device



MY AUDIO/VIDEO RECEIVER (AVR)

IS: _____

NOTE

- Refer to the instruction manual of the AVR for operation of the buttons exclusively for the AVR.

① PRECODED AVR Buttons

These buttons transmit the chosen pre-coded AVR codes:

-Power	-Cursor & Select	-Vol Up & Down
-Menu	-Channel Up & Down	-Mute
-Exit	-Number PAD	-Play, Pause, Stop,
-Input	-Record	RWD, Skip RWD, FWD, Skip FWD,
-Enter		

② EXCLUSIVE TV Buttons

These buttons are for operating the TV:

-P. Mode	-CC	-Aspect
-E.Save	-Info	

Remote Control Codes

CABLE Brand	CODES
A-MARK	0008, 0144
ABC	0237, 0003, 0008
ACCUPHASE	0003
ACORN	0237
ACTION	0237
ACTIVE	0237
ADB	2092, 2586
ARCHER	0237
BCC	0276
BRITISH TELECOM	0003
CENTURY	0008
DIGEO	1187, 2187
DIGI	0637
DIRECTOR	0476
DUMONT	0637
FOSGATE	0276
GE	0144
GENERAL	0476, 0810, 0276, 0003
INSTRUMENT	
GIBRALTER	0003
GOLDSTAR	0144
HITACHI	0003, 0008
INSIGHT	0476, 0810
JERROLD	0476, 0810, 0276, 0003
MEMOREX	0000
MITSUBISHI	0003
MOTOROLA	1376, 0476, 0810, 0276, 1187, 1254, 1106
NOVA VISION	0008
NOVAPLEX	0008
NSC	0637
PACE	1877, 0877, 0237, 0008
PANASONIC	0000, 0008, 0144
PANTHER	0637
PARAGON	0000, 0008, 0525
PENNEY	0000, 0637
PHILIPS	1305, 0317
PIONEER	1877, 0877, 0144, 0533
PULSAR	0000
QUASAR	0000
REGAL	0276
RUNCOR	0000
SAMSUNG	0003, 0144
SASKTEL	1737
SCIENTIFIC ATLANTA	1877, 0877, 0477, 0237, 0003, 0000, 0008
SONY	1006
SPRUCER	0144
STARCOM	0003
STORM	0637
SUPERCABLE	0276
TORX	0003
TOSHIBA	0000
UNITED CABLE	0276, 0003
US ELECTRONICS	0276, 0003, 0008
VIDEOWAY	0000
ZENITH	0000, 0525
CABLE/PVR COMBO	CODES
DIGEO	1187, 2187
GENERAL	0810
INSTRUMENTS	
JERROLD	0810
MOTOROLA	1376, 0810, 1187, 1106
PACE	1877, 0237
PIONEER	1877, 0877
SASKTEL	1737
SCIENTIFIC ATLANTA	1877, 0877
SONY	1006
SUPERCABLE	0276
SATELLITE BRAND	CODES
(Set Top Box)	
BELL EXPRESSVU	0775, 1170
CHAPARRAL	0216
COOLSAT	1806, 2147
CROSSDIGITAL	1109
DIRECTV	1377, 0392, 0566, 0639, 1639, 1142, 0247, 0749, 1749, 0819, 1856, 1076, 1108, 0099, 1109, 1392, 1414, 1442 1443, 1609, 1640
DISH NETWORK SYS-	1505, 1005, 0775, 1170, TEM 1775
DISHPRO	1505, 1005, 0775, 1775
ECHOSTAR	1505, 1005, 0775 1170, 1775
EXPRESSVU	0775, 1775
FORTEC STAR	1821
FUNAI	1377
GE	0392, 0566
GENERAL INSTRUMENTS	0869
GOI	0775, 1775
HITACHI	0749, 0819, 1250
HOUSTON	0775
HTS	0775, 1775
HUGHES NETWORK SYSTEMS	1142, 0749, 1749, 1442, 1443
INNOVA	0099
JERROLD	0869
JVC	0775, 1170, 1775
LG	1414
MAGNAVOX	0722
MCINTOSH	0869
MITSUBISHI	0749
MOTOROLA	0869, 0856
NETSAT	0099

NEXT LEVEL	0869	ELECTROPHONIC	0037	PANASONIC	1062, 0035, 0162, 0000, 0225, 0614, 0616, 1162
PANASONIC	0247, 0701	EMERALD	0184, 0121	PENNEY	0035, 0162, 0037, 0047, 0081, 0240, 0000, 0042, 0067, 0038
PANSAT	1807	EMEREX	0032	PENTAX	0042, 0065, 0105
PHILIPS	1142, 0749, 1749, 0775, 0819, 1076, 0722, 0099, 1442	EMERSON	0037, 0184, 0240, 0000, 0121, 0043, 0209, 0002, 0278, 0479, 1593	PHILCO	0035, 0081, 0000, 0209, 0479
PIONEER	1142, 1442	FISHER	0039, 0047, 0000, 0104, 0046	PHILIPS	0035, 0162, 0048, 0081, 0045, 0000, 0209, 0616, 0618, 0739, 1081, 1181
PRIMESTAR	0869	FUJI	0035, 0033	PILOT	0037
PROSCAN	0392, 0566	FUJITSU	0000	PIONEER	0162, 0081, 0042, 0067, 1337
RADIOSHACK	0566, 0775, 0869	FUNAI	0037, 0000, 0072, 0278, 1593	POLK AUDIO	0081
RCA	0392, 0566, 1142, 0775, 0855, 0143, 1392, 1442	GARRARD	0000	PORTLAND	0278
SAMSUNG	1377, 1142, 1276, 1108, 1109, 1442, 1609	GATEWAY	1972	PRESIDIAN	1593
SKY	0856, 0099	GE	0060, 0035, 0048, 0240, 0000, 0065	PROFITRONIC	0240
SONY	0639, 1639, 1640	GEMINI	0060	PROSCAN	0060
STAR CHOICE	0869	GENEXXA	0037, 0000, 0078	PROTEC	0000, 0072
STAR TRAK	0869	GO VIDEO	0240, 0432, 0526, 0614	PROTECH	0072
THOMSON	0392, 0566	GOLDSTAR	0035, 0037, 0039, 0000, 0278, 0038	PULSAR	0039, 0240, 0278
TIVO	1142, 1442, 1443	GOODMANS	0037, 0081, 0000, 0072, 0278	PULSER	0240
ULTIMATE TV	1392, 1640	GRADIENTE	0000	QUARTER	0046
ULTRASAT	1806	GRANADA	0081, 0042	QUARTZ	0035, 0047, 0046
UNIDEN	0722	GRUNDIG	0081	QUASAR	0035, 0162, 0002, 1162
VOOM	0869	HARLEY DAVISON	0000	RADIOSHACK	0035, 0162, 0037, 0048, 0047, 0240, 0000, 0104, 0046, 1037, 1162
ZENITH	0856, 1856, 1810	HARMAN/KARDON	0081, 0038	RADIX	0037
SAT/PVR COMBO	CODES	HARVARD	0072	RANDEX	0037
BELL EXPRESSVU	0775, 1170	HARWOOD	0072	RCA	0060, 0035, 0048, 0240, 0045, 0000, 0042, 0065, 0105
DIRECTV TV	1377, 0392, 0639, 1142, 1076, 0099, 1392, 1442, 1443, 1640	HEADQUARTER	0046	REALISTIC	0035, 0162, 0037, 0048, 0047, 0240, 0000, 0104, 0121, 0278, 0046, 0065, 1162
DISH NETWORK SYS-	1505, 0775	HEWLETT PACKARD	1972	REPLAY TV	0614, 0616
TEM		HI-Q	0035, 0047, 0000	RICAVISION	1972
DISH PRO	1505, 0775	HOWARD COMPUTERS	1972	RUNCO	0039
ECHOSTAR	1505, 0775, 1170	HP	1972	SAMSUNG	0060, 0240, 0045, 0000, 0038, 0432, 0739
EXPRESSVU	0775	HUGHES NETWORK	0042, 0739	SAMTRON	0240
HUGHES NETWORK	1142, 1442, 1443	SYSTEMS		SANKY	0048, 0039
SYSTEMS		HUMAX	0739, 1797, 1988	SANSUI	0240, 0000, 0067, 0209, 0041, 0072, 0002, 0479
JVC	1170	HUSH	1972	SANYO	0047, 0240, 0000, 0104, 0046, 0159, 0479
MOTOROLA	0869	HYTEK	0047, 0000, 0072	SCOTT	0184, 0045, 0121, 0043
PHILIPS	1142, 1442	IBUYPOWER	1972	SEARS	0060, 0035, 0162, 0037, 0045, 0039, 0047, 0033, 0045, 0000, 0042, 0104, 0067, 0043, 0209, 0041, 0065, 0105
PROSCAN	0392	INSTANT REPLAY	0035	SHARP	0048, 0047, 0032, 0000, 0065, 0848
RCA	1392	ITT NOKIA	0240, 0041	SHINTOM	0039, 0240, 0000, 0072
SAMSUNG	1442	JANEIL	0240	SIEMENS	0037, 0104
SONY	0639, 1640	JENSEN	0067, 0041	SIGNATURE	0060, 0035, 0037, 0048, 0000, 0046, 0065, 0479
STAR CHOICE	0869	JVC	0067, 0041, 1162	SINGER	0037, 0240, 0072
TIVO	1142, 1442, 1443	KEC	0037, 0278	SONIC BLUE	0614, 0616
ZENITH	1810	KENWOOD	0067, 0041, 0038, 0046	SONOGRAPHE	0046
VCR Brand	CODES	KLH	0072	SONY	0035, 0047, 0032, 0033, 0000, 0067, 0046, 0636, 1032, 1972
A-MARK	0037, 0240, 0000, 0278, 0046	KODAK	0035, 0037	SOUNDMASTER	0000
ABS	1972	KTV	0000	STACK 9	1972
ACCURIAN	0000	LG	0037, 0240, 0038, 1037	STS	0042, 0105
ADMIRAL	0060, 0048, 0039, 0047, 0104, 0209, 0065, 0479	LINKSYS	1972	SV2000	0000, 0072
ADVENTURA	0037, 0240, 0000	LLOYD'S	0240, 0000, 0072, 0038	SVA	0000
ADYSON	0072	LOEWE	0081	SYLVANIA	0035, 0081, 0000, 0043, 1593
AIKO	0278	LOGIK	0240, 0000, 0072	SYMPHONIC	0240, 0000, 0002, 1593
AIWA	0037, 0000, 0124	LUMATRON	0278	SYSTEMAX	1972
AKAI	0041, 0175	LUXOR	0046	TAGAR SYSTEMS	1972
ALBA	0209, 0072, 0278	LXI	0037, 0000, 0042, 0067	TANDY	0000, 0104
ALIENWARE	1972	M ELECTRONIC	0240	TASHIKO	0037
ALLEGRO	0039	MAGNASONIC	0037, 0240, 0000, 0072, 0278	TATUNG	0048, 0081, 0000, 0067, 0041
AMERICA ACTION	0278	MAGNAVOX	0035, 0037, 0048, 0039, 0240, 0000, 0563, 0618, 1593	TEAC	0000, 0067, 0041
AMERICAN HIGH	0035, 0081	MAGNIN	0240	TECHNICS	0035, 0162, 0037, 0000
AMSTRAD	0000	MARANTZ	0035, 0081, 0038	TEKNIKA	0035, 0037, 0000
ASTRA	0035, 0081	MARTA	0037	TELECODER	0240
AUDIOVOX	0000	MATSUI	0037, 0209	TELEFUNKEN	0041
AVIS	0000, 0072	MATSUSHITA	0035, 0162, 0081, 1162	TEIVION	0479
BEAUMARK	0240	MEDIA CENTER PC	1972	THOMAS	0000, 0002
BELL & HOWELL	0035, 0048, 0039, 0000, 0104, 0046, 0479	MEI	0035	THOMSON	0060, 0041
BROKSONIC	0184, 0121, 0209, 0002, 0479	MEMOREX	0035, 0162, 0037, 0048, 0039, 0047, 0240, 0000, 0104, 0209, 0072, 0278, 046, 0479, 1037, 1162	TI	0278
CALIX	0037	METZ	0037	TIVOLY	0618, 0636, 0739, 1337
CANDLE	0037, 0038	MGA	0060, 0240, 0043	TMK	0240, 0000
CANON	0035	MGN TECHNOLOGY	0240	TNIX	0037
CAPEHART	0002	MICROSOFT	1972	TOCOM	0240
CARRERA	0240	MIDLAND	0240	TOSHIBA	0240, 0045, 0000, 0043, 0209, 0041, 1008, 1972, 1988
CARVER	0035, 0081	MIND	1972	TONSONIC	0278
CCE	0072, 0278	MINOLTA	0042, 0105	TOTEVISION	0037, 0240
CINERAL	0278	MITSUBISHI	0060, 0048, 0047, 0000, 0042, 0067, 0043, 0041	TOUCH	1972
CITIZEN	0035, 0037, 0240, 0000, 0209, 0278, 0479	MOTOROLA	0035, 0048	TRIX	0037
CLASSIC	0037	MOVIE WALKER	0072	ULTRA	0045, 0278
COLORTYME	0060, 0035, 0045, 0278	MTC	0240, 0000, 0072	UNITECH	0240
COLT	0000, 0072	MTX	0000	VECTOR	0045
CRAIG	0037, 0047, 0240, 0072	MULTITECH	0039, 0000, 0072	VECTOR RESEARCH	0184, 0038
CRITERION	0000, 0072	NAD	0240, 0104	VEXTRA	0072
CROSLEY	0035, 0081, 0000	NEC	0104, 0067, 0041, 0038	VICTOR	0067, 0041
CROWN	0072, 0278	NEW TECH	0072	VIDEO CONCEPTS	0045
CURTIS MATHES	0060, 0035, 0162, 0240, 0000, 0041, 0278, 0432	NIKKO	0037, 0278	VIDEOMAGIC	0037
GOI	0775, 1775	NIKKODO	0037, 0278	VIDEOSONIC	0240, 0000, 0072
HITACHI	0749, 0819, 1250	NISHI	0240		
HOUSTON	0775	NIVEUS MEDIA	1972		
HTS	0775	NOBLEX	0240		
HUGHES NETWORK SYSTEMS	1142, 0749, 1749, 1442, 1443	NORTHGATE	1972		
INNOVA	0099	OLYMPUS	0035, 0162, 0104		
JERROLD	0869	ONKYO	0222		
JVC	0775, 1170, 1775	OPTIMUS	1062, 0035, 0162, 0037, 0048, 0047, 0240, 0000, 0042, 0432, 1048, 1162		
LG	1414	ORION	0184, 0240, 0000, 0104, 0121, 0209, 0002, 0278, 0479		
MAGNAVOX	0722	PANAMA	0035		
MCINTOSH	0869				
MITSUBISHI	0749				
MOTOROLA	0869, 0856				
NETSAT	0099				

Remote Control Codes

VIEWSONIC	1972
VILLAIN	0000
VOODOO	1972
WARDS	0060, 0035, 0037, 0048, 0047, 0081, 0033, 0240, 0045, 0000, 0042, 0043, 0041, 0072, 0038, 0479, 0065, 0046
WHITE WESTING-HOUSE	0000, 0209, 0072, 0278, 0479
WORLD	0209, 0002, 0479
XR-100	0035, 0240, 0000, 0072
YAMAHA	0041, 0038
ZENITH	0037, 0039, 0033, 0000, 0209, 0041, 0278, 0479, 1139
ZT GROUP	1972
PVR Brand CODES	
ABS	1972
ALIENWARE	1972
CYBERPOWER	1972
DELL	1972
DIRECTV	0739
GATEWAY	1972
GO VIDEO	0614
HEWLETT PACKARD	1972
HOWARD COMPUTERS	1972
HP	1972
HUGHES NETWORK	0739
SYSTEMS	
HUMAX	0739, 1797, 1988
HUSH	1972
IBUYPOWER	192
LINKSYS	1972
MEDIA CENTER PC	1972
MICROSOFT	1972
MIND	1972
NIVEUS MEDIA	1972
NORTHGATE	1972
PANASONIC	0614, 0616
PHILIPS	0618, 0739
PIONEER	1337
RCA	0880
REPLAY TV	0614, 0616
SAMSUNG	0739
SONIC BLUE	0614, 0616
SONY	0636, 1972
STACK 9	1972
SYSTEMAX	1972
TAGAR SYSTEMS	1972
TIVO	0618, 0636, 0739, 1337
TOSHIBA	1008, 1972, 1988
TOUCH	1972
VIEWSONIC	1972
VOODOO	1972
ZT GROUP	1972
DBS/PVR COMBO CODES	
DIRECTV	0739
HUGHES NETWORK	0739
SYSTEMS	
PHILIPS	0739
SAMSUNG	0739
TIVO	0739
DVD/PVR COMBO CODES	
HUMAX	1797, 1988
PIONEER	1337
RCA	0880
SYLVANIA	0000
TIVO	1337
TOSHIBA	1008, 1988
DVD Brand CODES	
3D LAB	0503, 0539
ACURIAN	0675, 1416
ACOUSTIC SOLUTIONS	0730
ADCOM	1094
AFREELY	0698
AIWA	0641
AKAI	0695, 0705, 0770, 1089
ALBA	0672
ALCO	0790
ALLEGRO	0869
AMPHION MEDIA	0872
WORKS	
AMW	0872
APEX DIGITAL	0533, 0672, 1020 1056, 1061
ARRGO	1023
ASPIRE DIGITAL	1168
AUDIOVOX	0790
AWA	0730
B & K	0655, 0662
BBK	1224
BEL CANTO DESIGN	1571
BLUE PARADE	0571
BLUE SKY	0695
BROKSONIC	0695
CALIFORNIA AUDIO	0490
LABS	
CELESTIAL	1020
CENTREX	0672
CINEA	0831
CINEVISION	0876, 0833, 0869
CITIZEN	1003, 0695, 1277, 1587, 2116
CLAIRTONE	0571

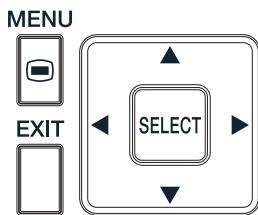
COBY	0778, 0852, 1077, 1086, 1107, 1165, 1177, 1351
CRAIG	0831
CREATIVE	0503, 0539
CURTIS MATHES	1087
CYBERHOME	0816, 0874, 1023, 1024, 1129, 1502, 1537
CYTRON	0705
DAEWOO	0784, 0705, 0770, 0833, 0869, 1169, 1172, 1234, 1242
DANSAI	0770
DAYTEK	0872
DECCA	0770
DENON	0490, 0634
DENVER	0778
DIGITREX	0672
DISNEY	0675, 1270
DI VIDO	0705
DUAL	0675
DURABRAND	1127
DVD2000	0521
EMERSON	1003, 2116
ENTERPRISE	0591, 0675
ENTIVO	0503, 0539
ENZER	0770
FISHER	1919
FUNAI	0675
GATEWAY	1073, 1077, 1158
GE	0522, 0815
GO VIDEO	0573, 0744, 0715, 0741, 0783, 0833, 0869, 1044, 1075, 1099, 1144, 1158, 1304, 1730
GOLDSTAR	0741, 0869
GOODMANS	0790
GPX	0769
GRADIENTE	0490
GRUNDIG	0539, 0705
HARMAN/KARDON	0582, 0702
HELLO KITTY	0831
HITACHI	0573, 0664, 1919
HITEKER	0672
IN SIGNIA	2095
INTEGRA	0571, 0627
IRT	0783
JBL	0702
JMB	0695
JSI	1423
JVC	0558, 0623, 0867, 1164
JWIN	1049, 1051
KAWASAKI	0790
KENWOOD	0490, 0534
KLH	0790, 1020, 1149
KLOSS	0533
KONKA	0711, 0721
KOSS	0769, 1061, 1423
LASONIC	0627
LECSON	1533
LENOXX	1127
LG	0591, 0741, 0869
LITEON	1058, 1158, 1416, 1440
LOEWE	0741
LOGIX	0783
MAGNASONIC	0675
MAGNAVOX	0503, 0539, 0646, 0675, 1354, 1506
MALATA	1159
MARANTZ	0503, 0539, 0646, 0675, 1354, 1506
MCINTOSH	1533, 1273
MEMOREX	0695, 0831, 1270, 2213
MICROSOFT	0522, 2083
MINATO	0752
MITSUBISHI	1521, 0521
MUSTEK	0730
MYRAD	0894
NAD	0741
NEC	0785, 0869
NEXXTECH	1402
NINTAUS	1051
NORCENT	1003, 0872, 1107, 1265
ONKYO	0503, 0627, 1769
OPPO	0575, 1224, 1525, 2185
OPTIMUS	0571
PALSONIC	0672, 0852
PANASONIC	0503, 0490, 0571, 0703, 1641, 1762
PHILCO	0675
PHILIPS	0503, 0539, 0646, 0675, 1267, 1340, 1354, 2056, 2084
PIANODISC	1024
PIONEER	0525, 0571, 0142, 0631, 1571
POLAROID	1020, 1061, 1086
POLK AUDIO	0539
PORTLAND	0770
PRESIDIAN	0675
PRIMA	2126, 2127
PROCEED	0672
PROSCAN	0522
PROVISION	0778
RADIIONETTE	0741
RADIOSHACK	0571
RCA	0522, 0571, 0790, 0822, 1769
REALISTIC	0571
REOC	0752
RIO	0869
RJTECH	1360
ROTEL	0623, 1178
SAMPO	0698, 0752
SAMSUNG	0490, 0573, 0744, 0199, 0820, 1044, 1075, 2069
SANSUI	0695
SANYO	0675, 0695, 0873, 1919
SCHNEIDER	0783
SCHWAIGER	0752
SENSORY SCIENCE	1158
SHARP	0630, 0675, 0752, 1256
SHERWOOD	0633, 0770, 1043, 1077
SHINSONIC	0533
SLIM ART	0784
SM ELECTRONIC	0730
SONIC BLUE	0573, 0715, 0783, 0869, 1099
SONY	0533, 1533, 0864, 1033, 1070, 1431, 1516, 1536
SYLVANIA	0675
SYMPHONIC	0675
TAG MCLAREN	0894
TATUNG	0770
TEAC	0571, 0790
TECHNICS	0490, 0703
TECHNIKA	0770
TECHSONIC	0730
THETA DIGITAL	0571
THOMSON	0522
TIVO	1503
TOSHIBA	0503, 0573, 0539, 0695, 1154, 1503, 1608, 1769
TREDEX	0800, 0803
UNIMAX	0770
UNITED	0730
UNIVERSUM	0591
URBAN CONCEPTS	0503, 0539
V	1064, 1226
VENTURER	0790
VIZIO	1064, 1226
VOCOPRO	1360
XBOX	0522, 2083
YAMAHA	0490, 0539, 0545, 0497
ZENITH	0503, 0591, 0741, 0869
ZEUS	0784
ZOEC	1265
BLU-RAY DISC CODES	
LG	0741
PANASONIC	1641
PHILIPS	2084
PIONEER	0142
SAMSUNG	0199
SONY	1516
DVD/PVR COMBO CODES	
GO VIDEO	1730
PANASONIC	0490
PHILIPS	1340
PIONEER	0631
RCA	0522
SHARP	1256
SONY	1033, 1070, 1536
SYLVANIA	0675
TOSHIBA	1503
HD-DVD CODES	
LG	0741
MICROSOFT	2083
ONKYO	1769
RCA	1769
TOSHIBA	1769
XBOX	2083
AUDIO RECEIVER CODES	
AIWA	1405, 0189, 0121, 1243, 1388, 1641
ALCO	1390
ANAM	1609
APEX DIGITAL	1774
ARCAM	1189
AUDIOTRONIC	1189
AUDIOVOX	1390
B & K	0820, 0840
BOSE	0639, 1253, 1933
BRIX	1602
CAIRN	0189
CARVER	1189, 0189, 0121
CURTIS MATHES	0014
DELPHI	1414
DENON	1360, 0121, 1142, 1306
ELECTROHOME	2026
GRUNDIG	0189
HARMAN/KARDON	0188, 0891, 1304, 1306
HITACHI	0228
INSIGNIA	1030, 2169
INTEGRA	0842, 1298, 1320, 1805
JBL	1306
JVC	1058, 1374, 1495, 1811
KAWASAKI	1390
KENWOOD	1570, 1569
KLH	1390, 1428
KOSS	1497
LG	2197
LINN	0189
LIQUID VIDEO	1497

On-Screen Display

To enter the OSD (On-Screen Display):

1. Press MENU button on the remote control to display the different features on your Hitachi LCD TV.
2. Use the CURSOR PAD (**▲, ▼, ◀, ▶**) to highlight a feature of the On-Screen Display menu. Press the SELECT button to select.
3. Press EXIT button on the remote control to quickly exit from any 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 among different picture modes.
- **Contrast** Adjust picture contrast.
- **Brightness** Adjust picture brightness.
- **Color** Adjust color.
- **Tint** Adjust tint.
- **Sharpness** Adjust sharpness.
- **Color Temp.** Set 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.
- **Dynamic Gamma** Set to produce greater picture detail in dark or bright scene areas depending on the program.
- **Gamma** Changes the gamma ratio value to produce pictures of greater contrast.
- **Auto Movie** Select the 3:2 Pull down detection feature Auto/Off. For a film like picture.
- **Reel120® Motion** Adjust the movie motion to smooth or original.
- **Aspect Ratio** Choose the picture format aspect ratio.
- **Backlight** Adjust to increase or decrease the brightness of backlight.
- **White Balance** Adjust the shadow color (Cutoff) and white color (Drive) to achieve natural whites and neutral grey shadow.
- **Blue Only Mode** Fine tune the color saturation and tint bias using a blue only mode.
- **Lock Settings** Select On to lock your favorite settings.
- **Reset** Choose to Reset Video Settings to factory settings.

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.
- **CONEQ** Select sound equalizing mode.

On-Screen Display

- **CONEQ 3D Sound** Turn On/Off CONEQ 3D sound settings.
- **Audio Source** Select between three Audio Sources (Stereo, Mono, SAP) (Available for analog channel).
- **Preferred Language** Select your preferred audio language option. (Available for digital channel).
- **Audio Language** Select Language options if available (Available for digital channel).
- **Digital Output** Select Optical Output options (Available for digital channel and HDMI).
- **Internal Speakers** Turn On/Off internal speakers.
- **Perfect Volume** Adjust volume to be closer in level between channels.
- **Reset** Resets all Audio settings the original condition.

Setup

- **Menu Language** Choose English, Spanish, or French for OSD Language.
- **Time** Set Clock Settings.
- **Sleep Timer** Set Sleep Timer intervals (5 minutes ~ 4 hours).
- **Day / Night Timer** Set Day/Night picture mode to start at preset times.
- **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 Caption 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.
- **Light Control** Adjust the settings of the Accent Light and Power LED.

- **HDMI - CEC** Set to On, this feature will enable simplified operation of compatible HDMI CEC devices.
- **Input Labels** Assign name to any of available inputs excluding the TV input.
- **RGB Options** Adjust Horizontal Position, Vertical Position, Clock, Phase and Reset.
- **Y-PbPr on VGA** Select the type of signal being used.
- **Demo Mode** Turn the demo mode on or off.
- **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 Strength meter (Available for digital channel).
- **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).
- **Channel List** Set Channel List.
- **Channel Labels** Set Labels on the channels.
- **Favorite Channels** Set the Favorite Channels.

Multimedia

- **JPEG Viewer** View digital still pictures from USB Drives.

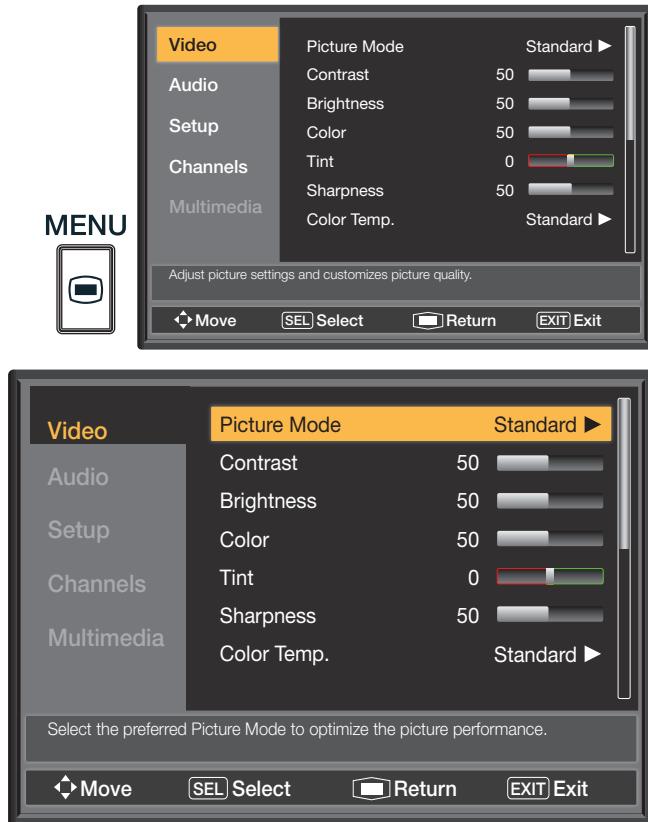
NOTES

- If there are any option grayed out, this is an indication that the option is not available for that specific function or mode.
- Changing of any Video/Audio settings, other than the Standard/Default settings, may not meet the ENERGY STAR requirements.

Video

VIDEO MENU

Select **Video** to adjust picture settings and improve picture quality. You can independently customize each of the video inputs, including Analog channels separately from Digital Channels (under TV Mode). The adjustments will be applied to Custom settings.



NOTES

- For the PC input, there are only two Picture modes available: **Standard** and **Custom**. In this case, only the **Custom** mode 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 the Auto Movie setting.
- If you change any of the adjustments in the **Dynamic**, **Standard** and **Movie** modes, the name of the **Custom** option will change. For example, the changes on **Dynamic** will rename the option as "**Custom-Dyn.**". This means that the original picture mode is not affected by the changes; the only thing affected is that **Custom** mode will take the video adjustments of the mode where the change was made.
- For Input Mode, **CABLE** and **AIR** share the same Video adjustment settings. Also, each of the video inputs have their own independent video adjustment settings.

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 button to return to the main menu.
4. Press EXIT button to quit the menu.

Picture Mode

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

1. Use the CURSOR PAD ► to select Picture Mode settings.
2. Then press the CURSOR PAD ◀ to return to the Video menu or press the EXIT button to quit menu.
3. There are seven Picture Modes available: **Dynamic**, **Standard**, **Movie**, **Custom**, **Game**, **Pro-Day**, and **Pro-Night** Mode. **Standard** mode is the factory preset mode for your TV. The only mode that can be directly changed by adjusting any Video setting to your desired conditions is the **Custom** mode. The other modes, with the exception of the **Pro-Day** and **Pro-Night**, are preset. Any changes made to these modes will be applied to **Custom** mode.

Contrast

Use this function to change the contrast between black and white levels in the picture.

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 Temp.

Set 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

Video

quality. Set Noise Reduction to **Off** if you see individual blocks in the picture.

Dynamic Gamma

The Dynamic Gamma feature allows you to set among three settings (**Off**, **Dynamic 1**, and **Dynamic 2**) to produce greater picture detail in dark or bright scene area.

Gamma

The Gamma function allows you to set among three levels of gamma ratio correction values (**Gamma 1**, **Gamma 2**, or **Gamma 3**) to produce pictures contrast.

Auto Movie

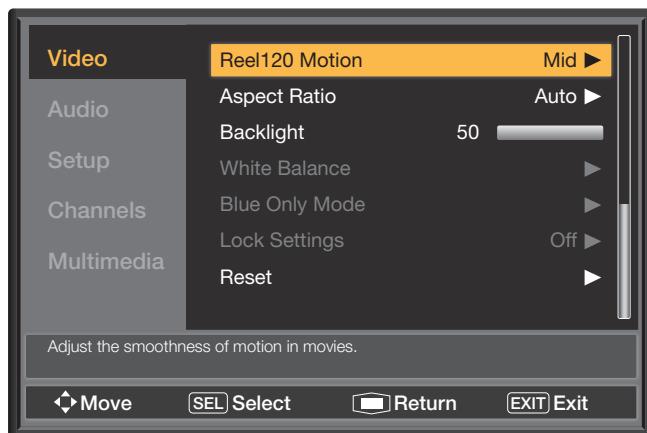
This feature sets the **3:2 pull down** detection feature to **Auto** or **Off**.

As the theatrical movies are shot on film at 24 frames of still pictures per second, instead of 30 frames or 60 fields like video. When the 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 the **Auto Movie** is set to **Auto**, your Hitachi LCD TV will activate the circuitry for this special feature to improve video performance when watching interlaced format film based sources. Set to **Off** will deactivate this feature.

Reel120® Motion

Hitachi's advanced video processor can display movies at 120 frames per second. The following settings are available to smooth the motion of movie sources. Please note that the effect may not be immediately noticeable and the effect depends on the content of the movie.



1. Use the CURSOR PAD ▲ or ▼ to highlight Reel120 Motion function.
2. Press the CURSOR PAD ► to select:

High: Select for the maximum smooth motion effect.

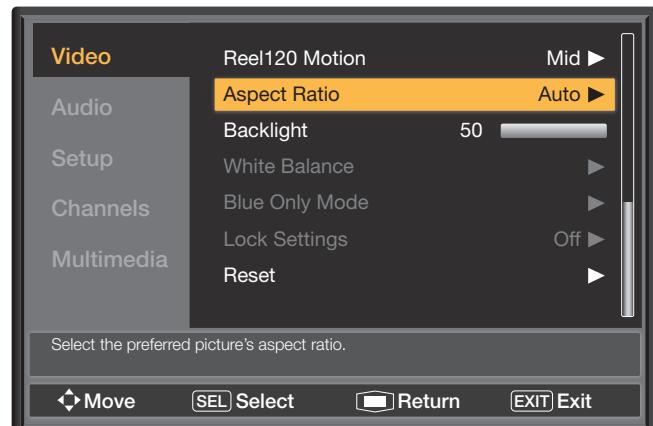
Mid: Select for a moderate smooth motion effect.

Low: Select for a mild smooth motion effect.

Off: Select this setting if there is noise with the High, Medium or Low settings.

Aspect Ratio

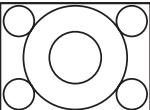
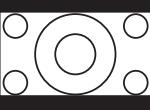
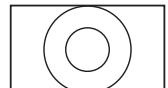
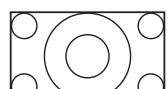
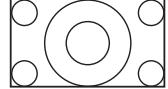
Use this function to select the Picture Format Aspect Ratio.



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 62.

Video

Input Signal	Display Screen	Display Aspect Recomended	To display suitable screen as follows:
When Watching Standard Definition Pictures:			
		4:3	Displays 4:3 programs in their original aspect ratio with bars to the left and right of the image.
(4:3 Signal)		16:9	Expands a 4:3 aspect ratio program to fill the widescreen 16:9 screen
		Zoom1	Use this aspect mode to expand letterbox movies to fill the screen. Note that some of the image may not be visible.
(Vista)		Zoom2	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 High Definition Pictures:			
		16:9	Plays a 16:9 image faithfully showing 95% for SD / 97.5% for HD of the size.
(16:9 Signal)		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.

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.

White Balance

Use this function to adjust the dark end (Cutoff) and bright end (Drive) of the White background.

Blue Only Mode

This function removes the red and green signal from the video signal and displays the blue signal only. This lets you accurately adjust the color and tint settings.

Lock Settings

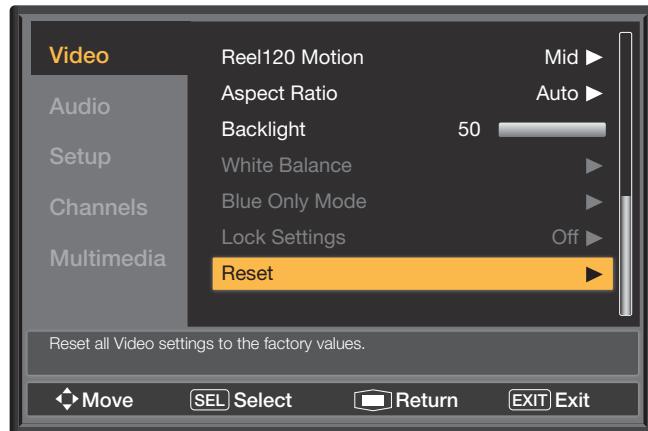
Select On to lock your favorite settings

NOTE

- This function is available only for **Pro-Day** and **Pro-Night** modes.

Reset

This function allows you to reset the Video Menu Settings of the present input source and return it to the Standard video mode.



1. Use the CURSOR PAD ▲ or ▼ to highlight this function.
2. Press the SELECT button or the CURSOR PAD ► to select **Yes** or **No**.

Video

3. Press the SELECT button on the **Yes** option to execute the reset of the Video settings.

Depending on the video program being viewed, you can customize each video input to your preference to increase viewing performance and pleasure.

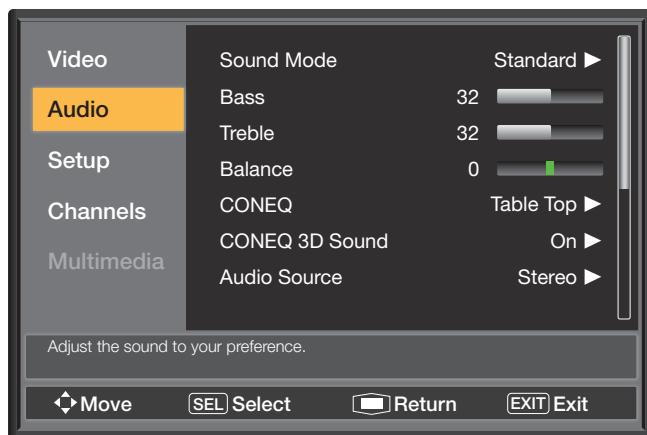
NOTES

- *If you run this Reset menu, only the present input source will reset to its initial condition. For example, if the Reset menu has been selected and done for HDMI 1 input source, only the HDMI 1 settings will return to its factory default.*
- *If "Lock Settings" is turned on (refer to page 34) running the Reset menu will not effect your Pro-Day and Pro-Night Mode settings.*

Audio

AUDIO MENU

Select Audio to adjust the sound to your preference.



Sound Mode

There are 4 sound modes preset for each different types of program. **Standard** mode is for normal audio conditions, **Movie** mode is for movies, **News** mode is for news programs, and **Custom** mode is for your preference.

The only mode that can be directly changed by adjusting any audio setting to your desired conditions is the **Custom** mode. The other modes are preset and any changes made to these modes will be applied to Custom mode.

Audio Menu Settings Adjustment

1. Press the CURSOR PAD **▲** or **▼** to select audio menu.
2. Press the CURSOR PAD **◀** or **▶** to adjust the value.
3. While pressing the CURSOR PAD **◀** or **▶** to adjust the audio value, you can press the CURSOR PAD **▲** or **▼** to select **Bass**, **Treble**, or **Balance** for adjusting.
4. Press the EXIT button to quit the menu, or select Audio to return to the main menu.

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.

CONEQ

Delivers clear crisp sound and high fidelity music playback. Use the CURSOR PAD **▶** to select the preferred setting.

Table Top: Use this setting for improved sound quality with table top stands.

Wall Mount: Select this setting for improved sound quality when wall mounting.

Hearing Aid: This special mode is for users that want to maintain clear sound after removing their conventional hearing aid. Note that this feature emphasizes higher frequencies.

CONEQ 3D Sound

Produces an impressive 3D Sound experience through the TV's sound system.

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 SAP(Second Audio Program) which may be a secondary language, weather report, etc. This setting is only for analog channels.

Preferred Language

Some programs transmit in other languages. This language function will allow you to set between 3 language options (English, Español, and Français) to your preference as the audio default language. This setting is only for digital channels.

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 10 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.

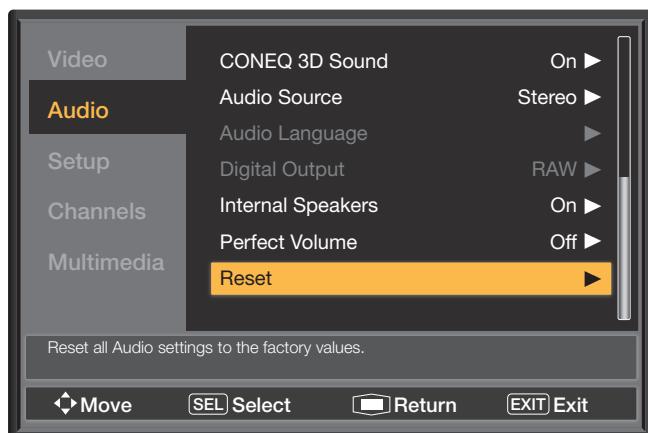
Perfect Volume

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

Audio

Reset

This function allows you to reset the Audio Menu Settings of the present input source and return it to the Standard mode and default settings.



1. Use the CURSOR PAD ▲ or ▼ 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.

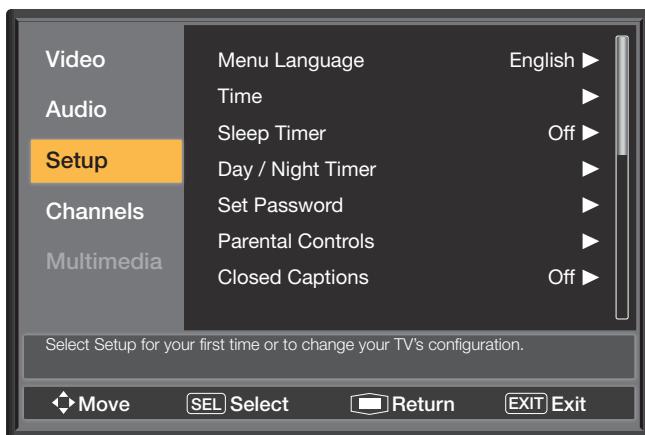
Depending upon the audio program being heard, you can customize each audio input to your preference to increase audio performance and pleasure.

All the input sources will be reset to its initial condition by running this Reset menu.

Setup

SETUP MENU

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



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

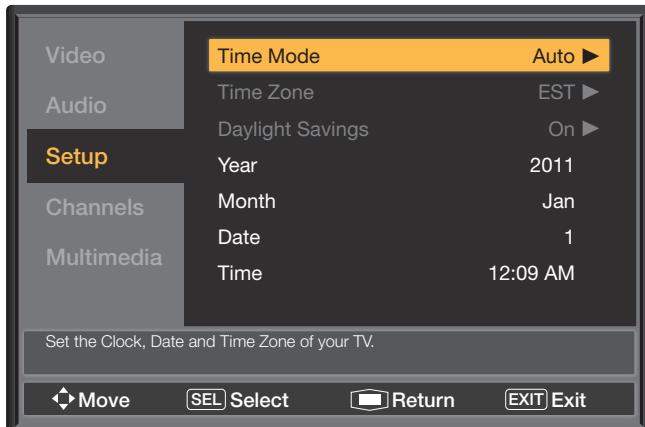
Menu Language

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 the EXIT button to quit the menu or the MENU button 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 ▲, ▼ and ► to highlight and setup the Time settings.
2. If you observe daylight savings, use the CURSOR PAD to highlight **Daylight Savings** and press the CURSOR PAD ► 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 the EXIT button to quit the menu or the MENU to return to the previous menu.

NOTES

- When Auto is set, Daylight Savings can be set, the TV will automatically calculate the clock adjustment for Daylight Saving. Set this setting according to the current DST status.
- The TV counts electrical pulses for regulating the timers. When the power cord is unplugged quickly, the clock will reset to factory default setting.
- The Year, Month, Date, and Time setup can be changed only if the Time Mode is set to Manual.

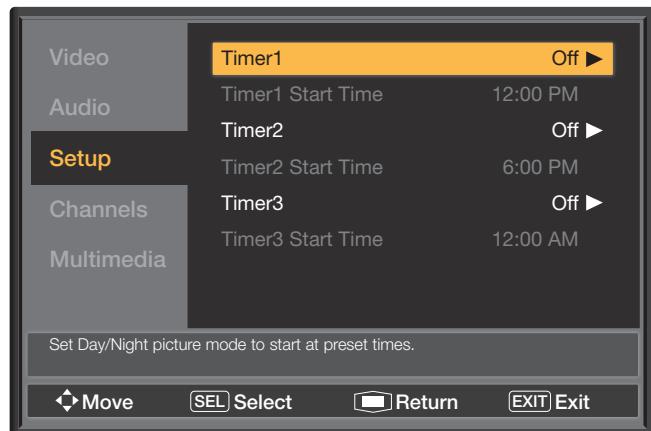
Sleep Timer

Select this feature to set your Sleep Timer from 5 minutes to 4 hours.

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

Day / Night Timer

Select this feature to activate and set your TV's Day/Night picture mode Timers. There are three available Timers for your convenience.



1. Use the CURSOR PAD to highlight the Timer that you would like to set (**Timer1**, **Timer2**, or **Timer3**).
2. Use the CURSOR PAD or the SELECT to select the Picture Mode you would like to activate. (**Dynamic**, **Standard**, **Movie**, **Custom**, **Game**, **Pro-Day** or **Pro-Night**).
3. Use the CURSOR PAD to select "Timer Start Time" and press the SELECT button.
4. Use the CURSOR PAD or the NUMERIC buttons to set the timer start time.
5. Once the start time is set press the SELECT button.
6. Repeat steps 1-6 to set another Timer.

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 password. This will reset the password number back to the factory preset (**0000**).

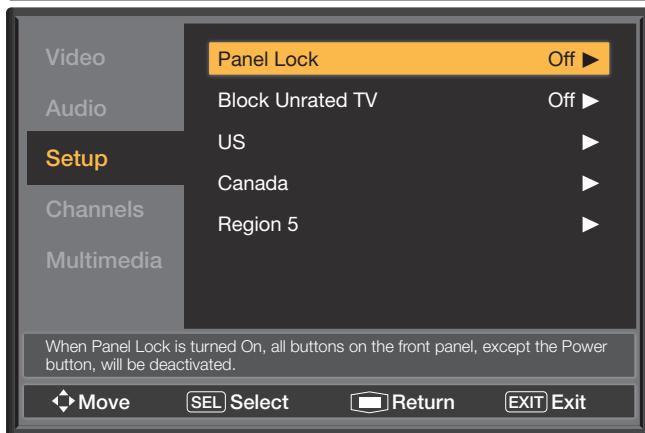
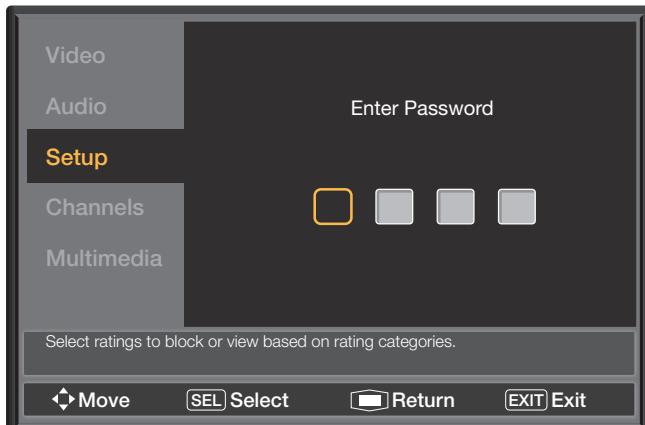
Setup

- Enter a new four digit number.
- Press the EXIT button 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 4 digit number. The factory preset password is **0000**. Use the NUMERIC buttons to enter the password.



Panel Lock

When Panel Lock is turned On, all buttons on the front 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 39).

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 40).

U.S. 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

NOTES

- 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.

U.S. 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

NOTES

- 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.

Setup

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.

Canadian Ratings French Table

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 ◀ or ▶ to select the Rating category (MPAA, TV Rating, etc.) that you want to block.
2. Press the SELECT button to block the Rating that you have selected.
3. Press the EXIT button 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.

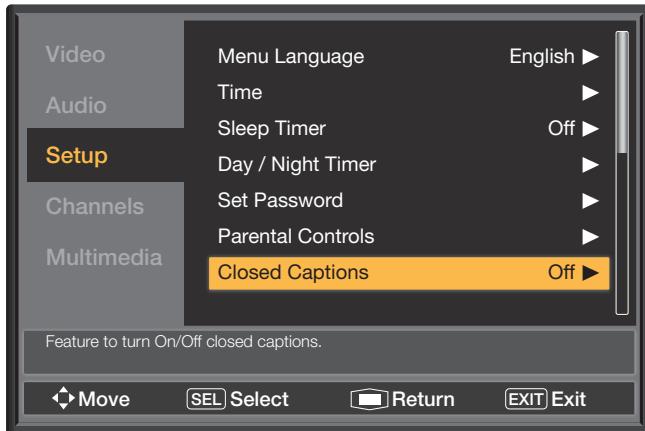
NOTES

- 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 button on the remote control.
- 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.

On / Off

Turn the display **CC** on or off.

With Mute

Turn the display **CC** on when Mute is on.

2. Press the EXIT button to quit menu or press menu to return to the Main menu items.

Digital Captions

Set captions for digital programs and set available language.

Digital Caption 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" input 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.*
- *Analog and digital Closed Captions availability and content depends on the broadcaster. Digital Closed Caption are available when the Closed Caption icon is displayed on the info banner.*
- *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 ~ CC4

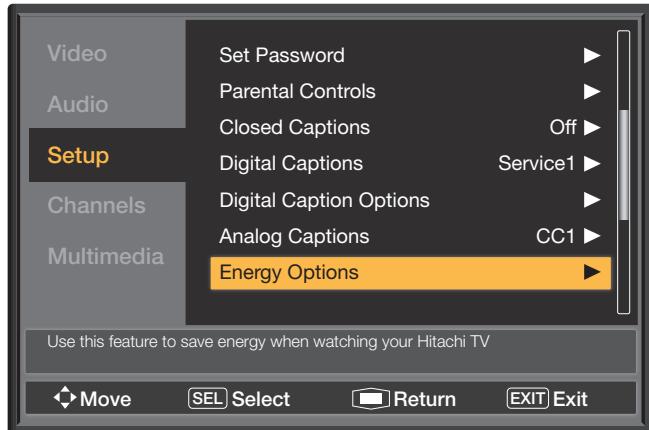
These are for the program you are viewing.

TEXT1 ~ TEXT4

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.

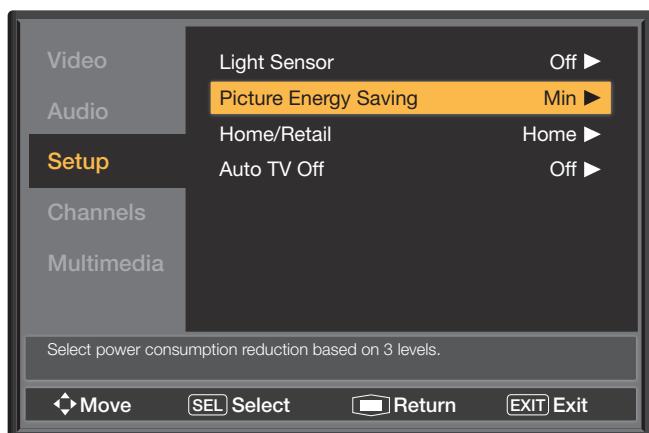
Energy Options

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.



Light Sensor

This feature allows you to turn Off/On the light sensor function for automatically backlight control.

Picture Energy Saving

This function allows you to choose one of the 3 power consumption reduction levels: **Min**, **Medium**, or **Max**.

Home/Retail

You can change the initial setting to either **Home** or **Retail** mode quickly through this menu option, without running the TV Setup Wizard again (See page 13).

NOTE

- *Retail mode is intended for showroom use only. Any menu or control changes in this mode will not be saved when the TV is turned off.*

Setup

Auto TV Off

The TV will automatically turn off for no signal at any input and no remote control or front-panel key access after a preset timing.

The selections are: **Off, 1 min, 5 min, 10 min, 15 min,** and **AutoSleep.**

Off:

- This **Auto TV Off** function is disabled.

1 min, 5 min, 10 min, 15 min:

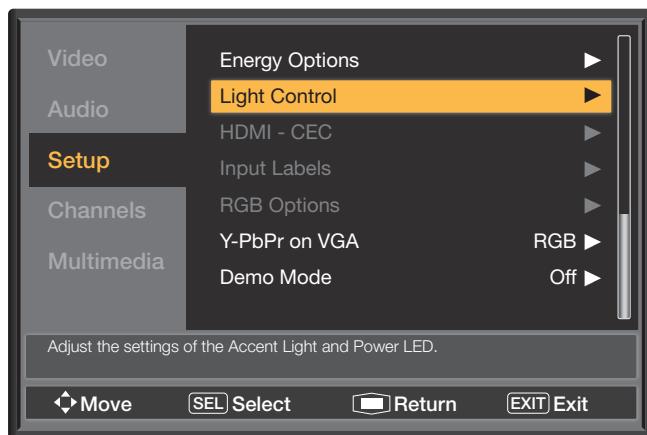
- The TV will automatically turn off with no signal at any input within preset timings. The turn-off timing will reset once the remote control or front-panel key is accessed.

AutoSleep:

- With no signal at any input, the TV will automatically turn off if no remote control or front-panel key activity is detected within 15 minutes. The turn-off timing will reset once a signal is present or the remote control or front-panel key is accessed.
- With a signal at any input, the TV will automatically turn off if no remote control or front-panel key activity is detected within 3 hours. The turn-off timing will reset once the remote control or front-panel key is accessed.

Light Control

This feature allows you to save electric energy consumption furthermore besides the other energy saving options.



- Press the CURSOR PAD ▲ or ▼ to highlight Light Control.
- Press the CURSOR PAD ► to enter the Light Control menu.

Accent Light

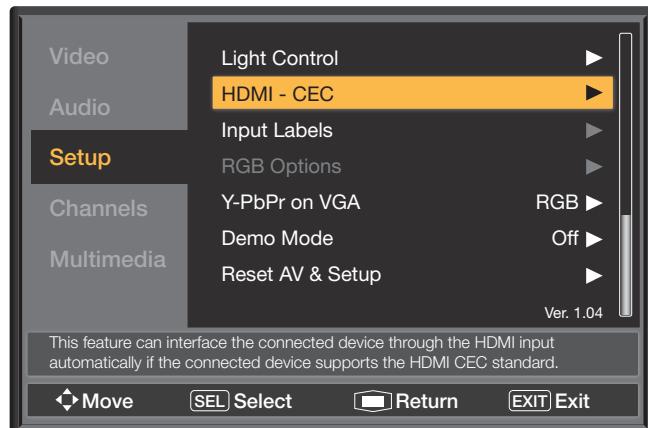
This feature turns Off or control the brightness of the Accent Light on the front panel of your TV.

Power LED

Select this feature to turn Off or On the Power LED indicator on the front panel on your TV.

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 device. 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 device. Select Off to disable this option.



With the "HDMI - CEC" feature, you can interface the connected device through the HDMI jack automatically if the connected device meets the "HDMI CEC (Consumer Electronics Control)" industry standard. Please check if the connected device supports HDMI CEC before using this feature. For example, here are three common functions after setting item "CEC Enable" 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 device 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.

Setup

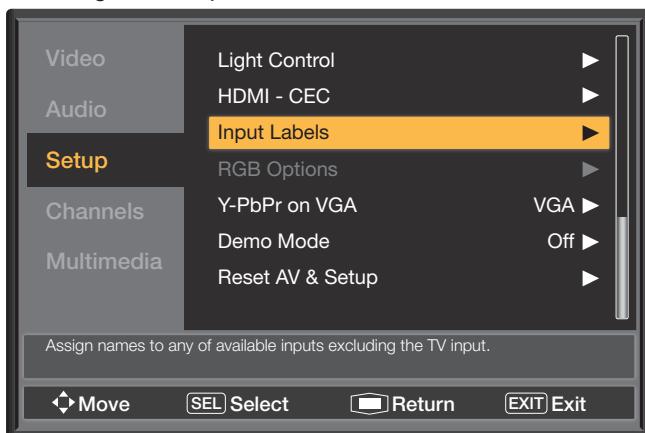
Feature	Description
One-Touch Play (TV Auto On)	Pushing the "Play" button on the CEC enabled device will command the device to play , turn the TV on, and the HDMI input, that the device is connected to, will become the active input device for the TV.
Playback Control	The user can operate the CEC enabled 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

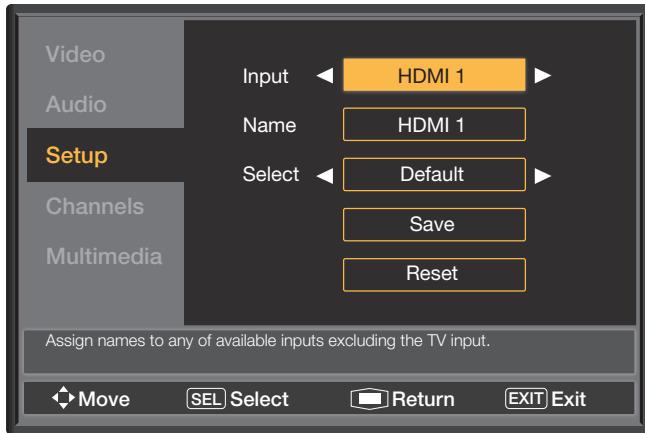
- Not all devices with an HDMI connection have the CEC feature. Consult the instruction manuals for the device you are trying to control to confirm whether or not CEC is available.

Input Labels

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



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

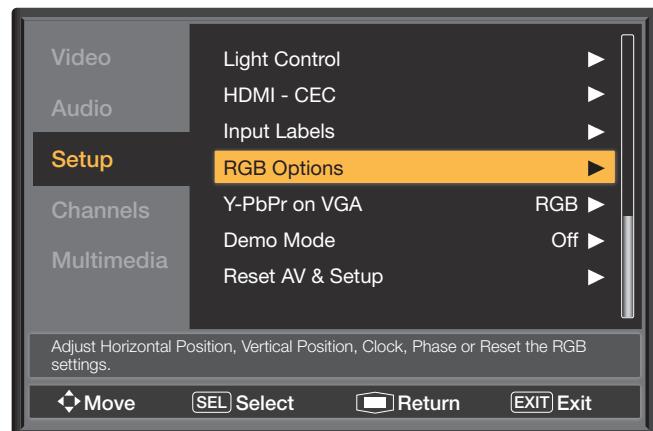


NOTES

- Input Labels is Grayed out (Skip) or disabled until you are on the INPUT that you like to change.
- When the Custom option is selected, a Keyboard will appear on the screen to place your desired label.

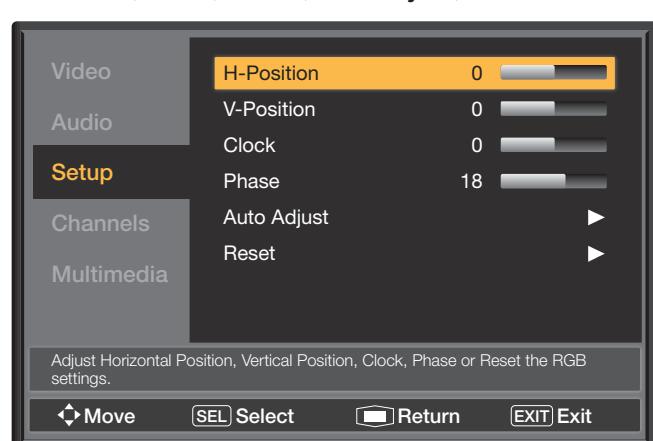
RGB Options

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 six 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.

Setup

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.

Y-PbPr on VGA

Select the type of signal being connected to the **RGB/COMPONENT 2** input.



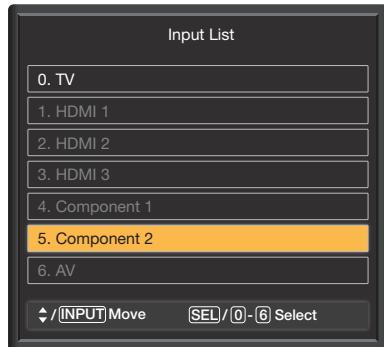
RGB

This is the default setting for PC connection.

Component 2

Select this option if you want to connect with Y-PbPr video cable from the video output of your AV device to this TV **RGB/COMPONENT 2** input.

After selected **COMPONENT 2** for this option, you will have to press the INPUT button on the remote control to select **5. Component 2** input source so as to view the source from the TV **RGB/COMPONENT 2** input.



See page 17 for how to connect COMPONENT device to the **RGB/COMPONENT 2** input.

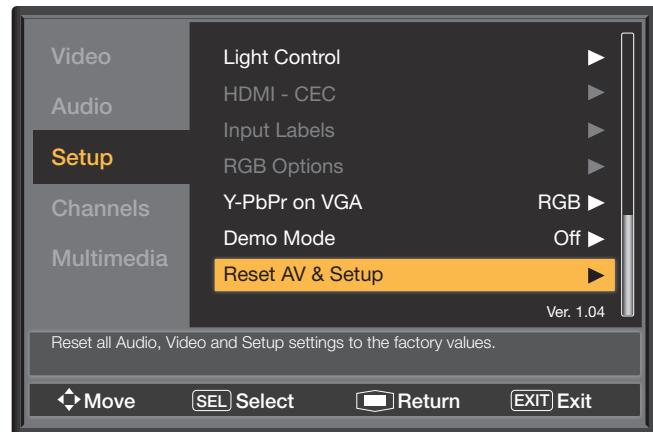
Demo Mode

Turn the demo mode On or Off.

A TV feature introduction will be popped up at the upper right screen corner.

Reset AV & Setup

This feature restores all Audio, Video and Setup settings to the factory default values.



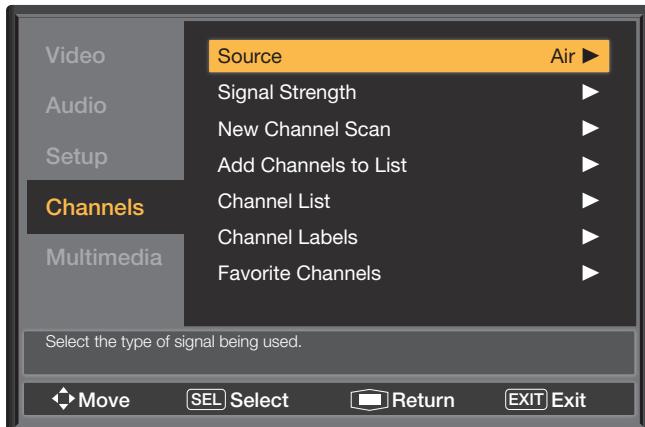
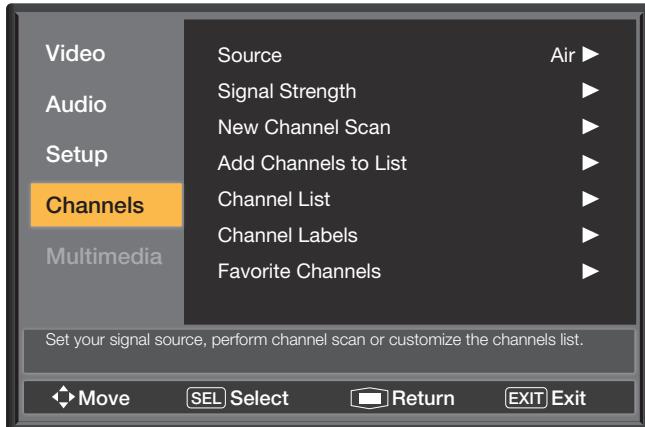
NOTE

- If "Lock Settings" is turned on (refer to page 34) running the Reset menu will not effect your **Pro-Day** and **Pro-Night** Mode settings.

Channels

CHANNELS MENU

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 the CURSOR PAD ▲ or ▼ to highlight functions.
2. Press the SELECT button or the CURSOR PAD ► enter the next popped-up menu.
3. Press the CURSOR PAD ▲ or ▼ 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

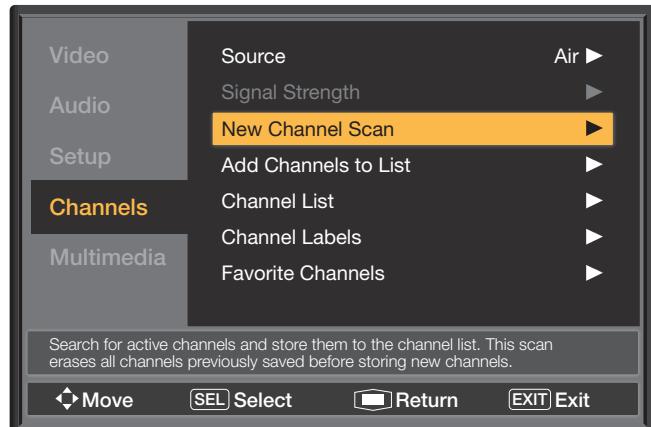
Select Signal Strength when using an indoor or outdoor antenna. This feature will show the signal strength of the antenna signal to help you adjust your antenna to optimize signal reception. Use the MENU or the EXIT button to return.

NOTE

- The Signal Strength meter 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.



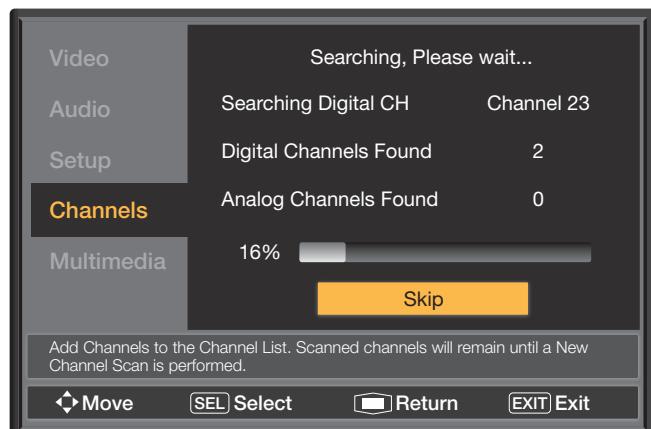
1. Use the CURSOR PAD ▲ or ▼ to highlight then press the SELECT button to start scanning.

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 ▲ or ▼ 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.

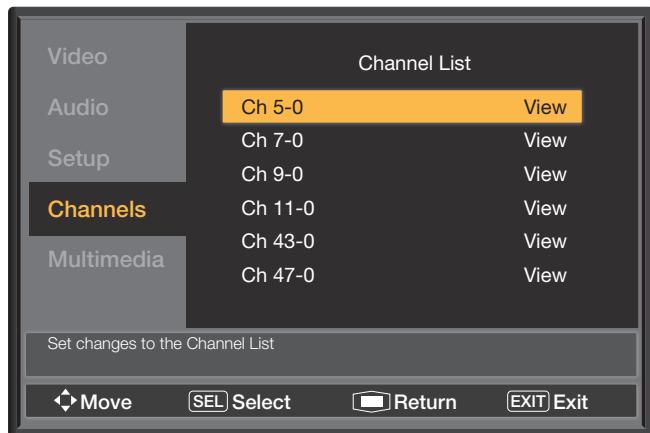
NOTE

- Only the Channels that have been added to the list will be stored.

Channels

Channel List

This function allows you to review which channels have been added to the Channel List.



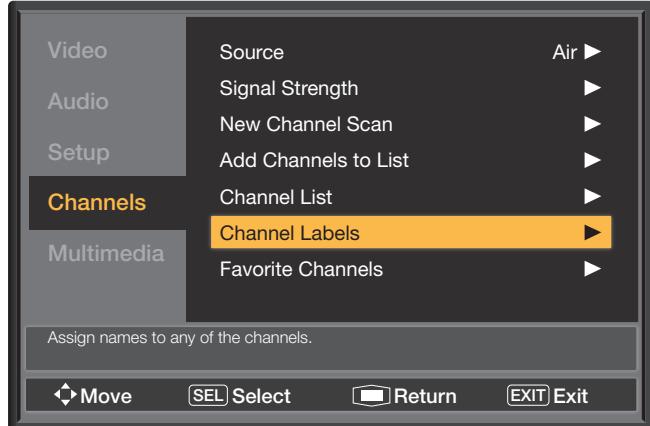
1. Use the CURSOR PAD to navigate the Channel List.
2. Press the SELECT button or the CURSOR PAD ▶ to select **Skip** or **View**.
3. Press the EXIT button to return to normal viewing.

NOTE

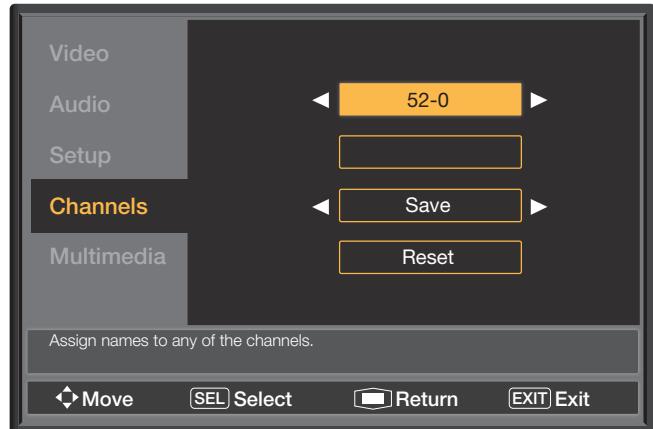
- *The Channel List cannot be updated by only changing the signal. Auto Channel Scan must be performed for the Channel List to be updated.*

Channel Labels

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

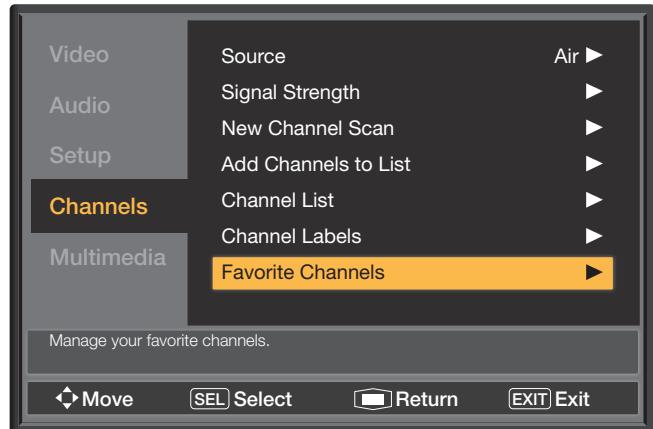


1. Press the CURSOR PAD ▲ or ▼ to highlight the channels.
2. Press the CURSOR PAD ▶ to change the channel label.
3. Press the SELECT button to show the keyboard for editing the channels.

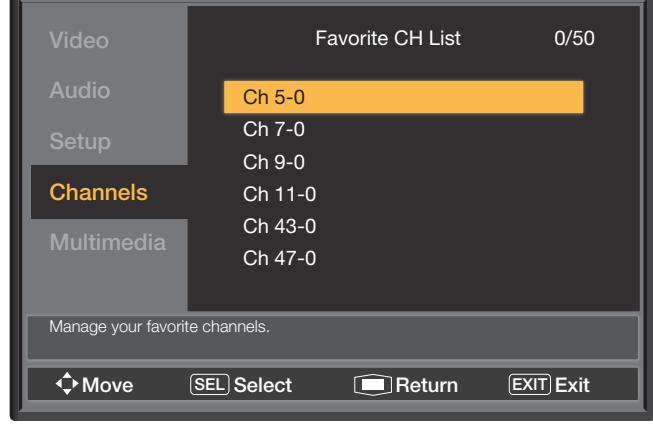


Favorite Channels

This function allows you to manage your favorite channels.



1. Use the CURSOR PAD to navigate the Favorite Channels.



2. Press the SELECT button or the CURSOR PAD ▶ 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.

Channels

4. To view all the Favorite channels that you have chosen, press the FAV CH button on the remote control.



Multimedia

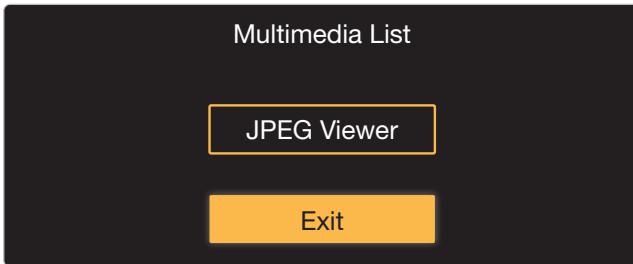
MULTIMEDIA MENU

Your Hitachi LCD TV features a **JPEG Viewer** that allows watching digital still pictures from your USB disk plugged to the USB slot at the side panel.

There are two ways to enter the multimedia option:

To enter the **JPEG Viewer** automatically:

1. Plug your USB disk either before or after powering on your TV, the TV screen will pops up a selection window of **Multimedia List** allowing you to select the **JPEG Viewer**.

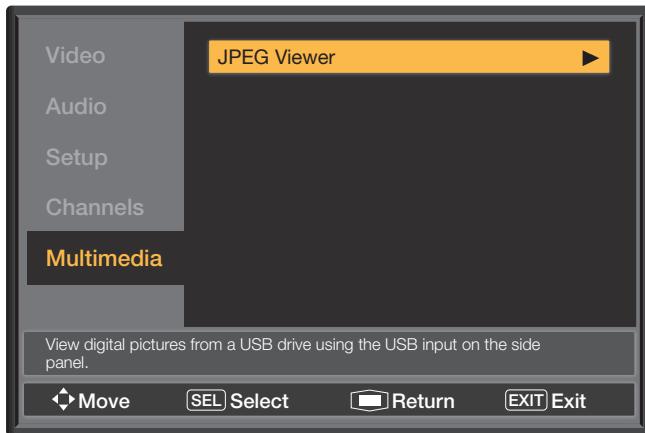


2. If you want to enter the **JPEG Viewer** now, use the CURSOR PAD ▲ or ▼ to highlight **JPEG Viewer** and press SELECT button.
3. If you do not want to enter the **JPEG Viewer** now, you may either use the CURSOR PAD ▲ or ▼ to highlight **Exit** and press SELECT button to leave, or press the EXIT button on the remote control directly to leave.

To enter the **JPEG Viewer** manually:

With your USB disk plugged to the TV, you can enter **JPEG Viewer** at anytime.

1. Press MENU button on the remote control to enter the On-Screen Display.



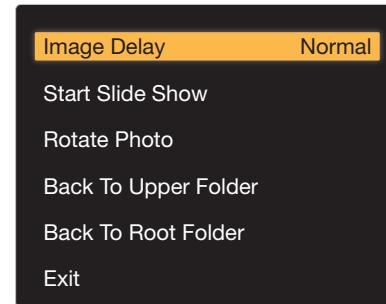
2. Use the CURSOR PAD ▲ or ▼ to highlight **Multimedia** and use the CURSOR PAD ► to select and enter **JPEG Viewer**.

To play JPEG photo files:

1. Enter the **JPEG Viewer**. Use the CURSOR PAD (▲, ▼, ◀, ▶) to search your photo files, or the folder that contains your photo files. Press the SELECT button to enter.



2. While in the **JPEG Viewer**, you can press the MENU button to enter a submenu to do these control: **Image Delay**, **Start Slide Show**, **Rotate Photo**, **Back To Upper Folder**, **Back To Root Folder**, and **Exit**.



3. Press the SELECT button on the first photo file to start viewing. Press the EXIT button to stop viewing. Press the ▶ button to start slide show viewing. Press the ■ button to stop slide show viewing.

NOTE

- Due to the mechanical design of the TV, the maximum thickness of the USB disk plugged to the USB slot at the side panel should not exceed 9mm.

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 tape on your LCD Television.
- Avoid repeatedly touching the screen.
- Do not drop or hit the remote control. This may cause internal damages.
- 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 "AAA" 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.
- Do not spray any cleaners directly onto 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

- Press the POWER button (ON/OFF button) once.
- If there is still no power, wait 30 seconds and press the POWER button again.
- 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	The unit cannot detect any signals from any input jacks or the TV channel does not show picture. <ul style="list-style-type: none">Check if the cable is connected correctly and firmly.Check if the power of any external device is ON.Check if the input selection matches the connection jack.This message will be displayed for 15 minutes then the TV will turn off.

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 device 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, 15~19, 32~37
Multiple images-normal sound	<ul style="list-style-type: none">Check the connections to external device.	15~19
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.	51
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 device.Try next/other Audio Language.	15~20, 36

Troubleshooting

SYMPTOM	CHECKLIST	PAGES
No picture - normal sound	<ul style="list-style-type: none"> Check the value level of "Brightness" and "Contrast" in "Video Menu". 	32
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. 	12
Normal picture but no color-normal sound	<ul style="list-style-type: none"> Check the connections to external device. 	15~19
No picture The Indicating lamp → Off	<ul style="list-style-type: none"> Check if the power cord is plugged into the socket securely. 	9, 12
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, 15~19, 33
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, 22, 62
No power	<ul style="list-style-type: none"> Check the power cord is connected to the AC outlet. 	12
Turns Off by itself	<ul style="list-style-type: none"> Check or ensure Sleep Timer settings are not activated. 	11, 20, 38
Turns On by itself	<ul style="list-style-type: none"> Check if the HDMI-CEC feature is activated. 	42
Picture may "block" or freeze when watching a digital channel.	<ul style="list-style-type: none"> Check signal strength under "Signal Strength". 	45

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. 	15, 16, 21
Error notice comes to screen	<ul style="list-style-type: none"> Try pressing "exit" on HDMI device remote control and then on TV remote control 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, 15~16
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. 	36
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. 	19, 36
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 its output is set to 1080p, 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. 	

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

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.



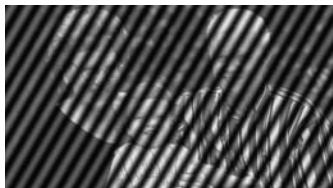
GHOSTS:

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 device 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 device from the TV set to a considerable distance.

Features And Specifications

Picture Performance:

- 120Hz 1080p Perfected (1920 x 1080)
- Reel120® Motion Correction
- HDMI® Key Features
 - CEC(Consumer Electronics Control)
 - ARC(Audio Return Channel)
 - 1080p/60/24
- 3D Y/C Comb Filter
- 3 Preset Color Temperatures
- Custom White Balance
- Blue Only Mode
- Game Mode

Convenience Features:

- Picture Modes:
Dynamic/Standard/Movie/Game/Custom/Pro-Day/Pro-Night
PRO-Mode Lockable Day/Night Memories
PRO-Mode Timer
Picture Memory by Input
- Screen Aspect Modes: (Auto/4:3/16:9/Zoom1/Zoom2/Full)¹
- Intelligent Light Sensor
- V-Chip Parental Control

Audio Performance Features:

- CONEQ™ Hearing Aid Mode
- CONEQ™ 3D Sound
- 4 Sound Modes (Custom, Standard, Movie, News)
- Rated Output Power: 10W+10W (L/R)

Inputs:

- Power Input..... AC 120V, 60Hz
- Power Consumption
 - Maximum Power LE42S605..... 100 W, 0.85A
 - Maximum Power LE46S605..... 140 W, 1.15A
- Antenna Input Impedance..... 75 Ohm
- Channel Coverage..... 191ch.
 - VHF-Band 2~13
 - UHF-Band 14~69
 - CATV Mid Band..... A5~A1, A~I
 - 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
- Component Video
 - Luminance(Y)..... 1.0Vp-p, 75 Ohm
 - Chrominance(Pb/Pr) 0.7Vp-p, 75 Ohm
- Audio Input Impedance..... >10k Ohm
- Audio Input Sensitivity 500mVrms
- HDMI..... (19 PIN)

Supplied Accessories:

- Remote Control
- Batteries (AAA)
- Owners Guide
- Easy Graphic Guide
- Stand Base
- Stand Screws
- Hinge cover for wall mount

Inputs/Outputs:

- (3) HDMI®
- (1) Component 1 Y, Pb, Pr / Composite Video Input
- (1*) RGB/Component 2 Y, Pb, Pr Input
- (1) RGB/DVI/Component 2 Audio Input (3.5mm Stereo)
- (1) USB Multimedia/Service Input
- (1) Antenna (RF) Input
- (1) Audio (L,R) Output (3.5mm Stereo)
- (1) Digital Audio Output (Optical)
- (1) Headphone Output (3.5mm Stereo)

* RGB/Component2 (Shared D-Sub 15, Adapter Not Included)

Specifications:

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

¹ Screen mode availability varies by input format.

VGA and XGA are trademarks of International Business Machines Corporation.

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

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



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



Manufactured under license from Real Sound Lab, SIA. CONEQ is a trademark of Real Sound Lab, SIA. CONEQ™ delivers clear, rich sound using proprietary professional equalizing technology. Dialog is clear and music sounds more dynamic when the speakers are perfectly optimized.



CONEQ HA Mode™ (Hearing Aid) technology produces natural sound for the hearing impaired. The listener can enjoy details in music and clear dialog often without the help of a hearing aid.

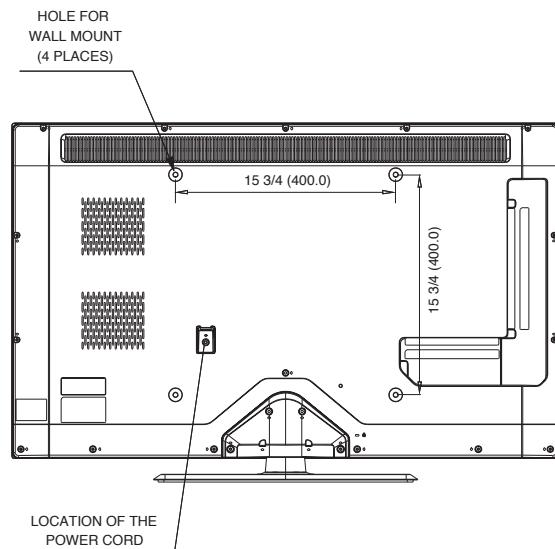
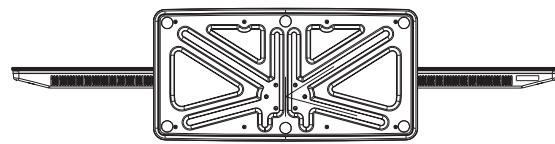
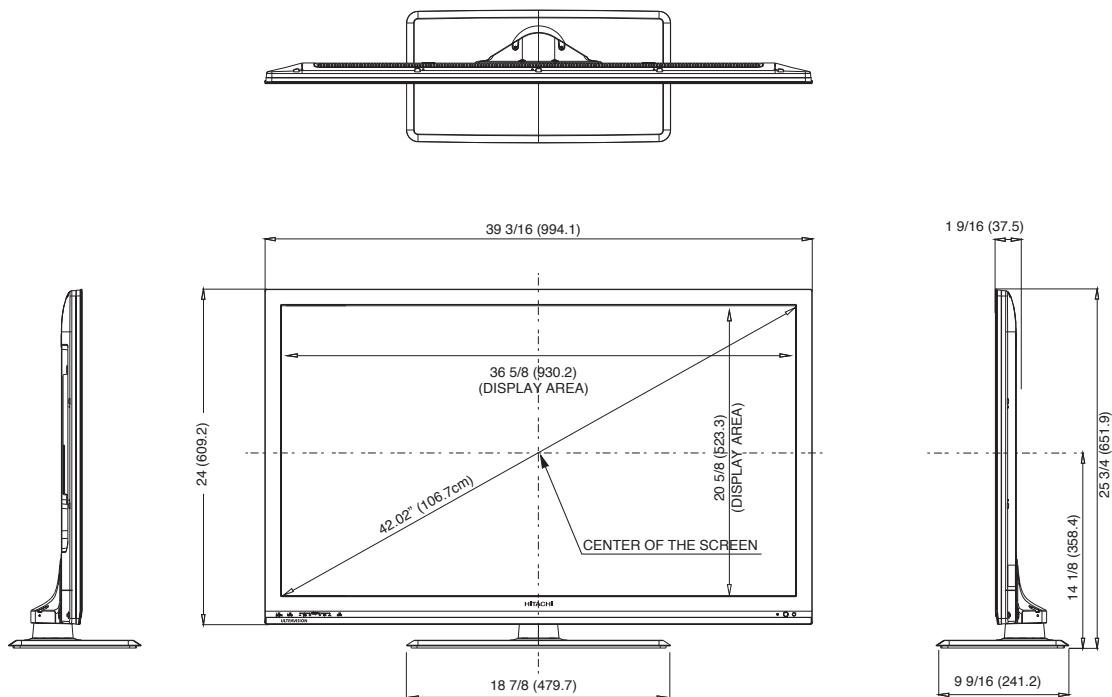


CONEQ™ 3D Sound produces a natural three-dimensional sound experience. CONEQ 3D Sound complements any program by providing musically accurate sound.

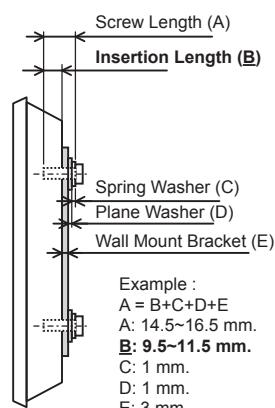
Set Dimensions

LE42S605 model (Includes Table Top Stand) Weight (lbs./kg): 33/15

Units : Inches (mm)



Rear View
Use as Reference for Wall Mount Bracket



Example :
A = B+C+D+E
A: 14.5~16.5 mm.
B: 9.5~11.5 mm.
C: 1 mm.
D: 1 mm.
E: 3 mm.

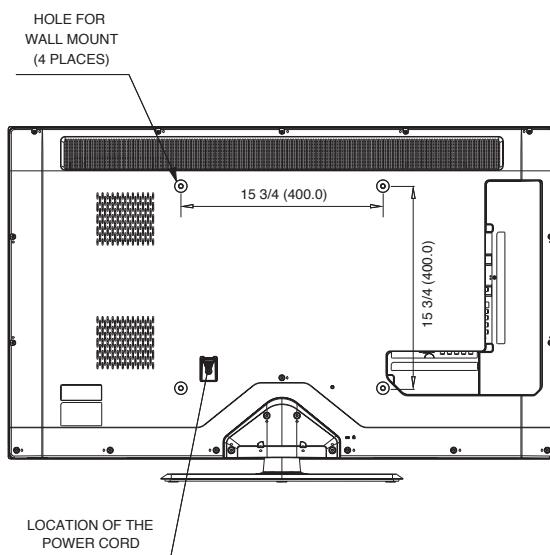
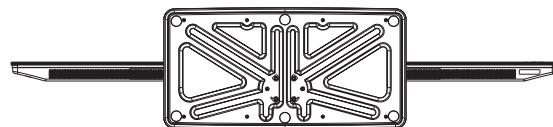
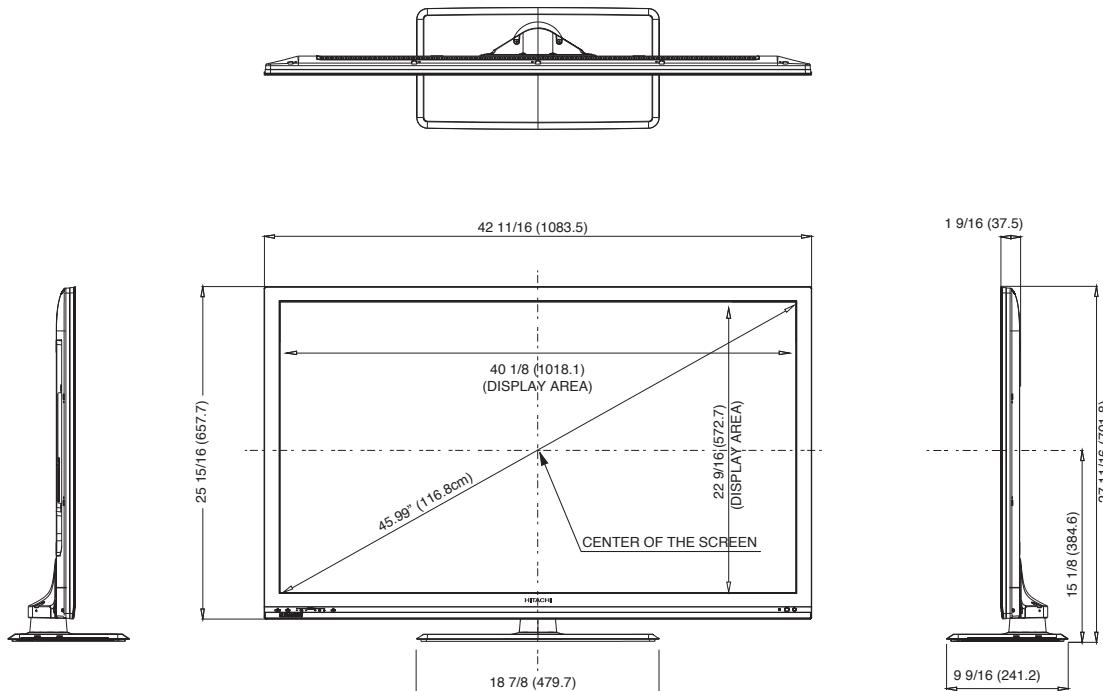
- The screw type : Thread ISO M6 (Metric type, do not use Standard type).

Side View
Wall Mount Screw specification

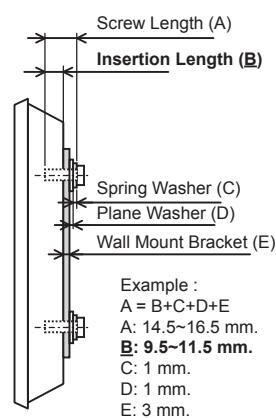
Set Dimensions

LE46S605 model (Includes Table Top Stand) Weight (lbs./kg): 39.7/18

Units : Inches (mm)



Rear View
Use as Reference for Wall Mount Bracket



Example :
 $A = B+C+D+E$
 A: 14.5~16.5 mm.
B: 9.5~11.5 mm.
 C: 1 mm.
 D: 1 mm.
 E: 3 mm.

• 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 ~ Friday
8:00 am - 7:00 pm CST

www.hitachi.us/tv



Sincere - Prompt - Efficient

HITACHI
Inspire the Next

LIMITED WARRANTY

HITACHI AMERICA, LTD.

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

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

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

Au Canada: 800.HITACHI (800.448.2244)

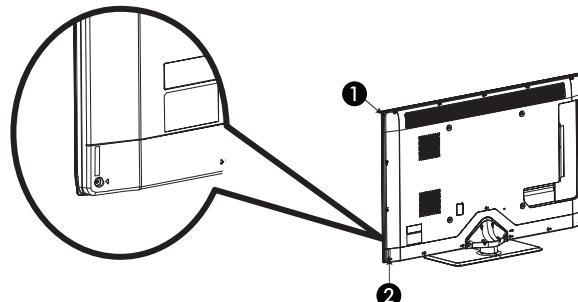
Lundi~ Vendredi 8:00 am – 7:00 pm HNC

**Hitachi America, Ltd., Digital Media Division
Customer Service Support
PO Box 3900
Peoria, IL 61612
U.S.A.: customerservice.ce@hal.hitachi.com
Canada: customerservice.canada@hal.hitachi.com**

Customer Record

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

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



Model Name _____

Serial Number _____

Limited Warranty

Congratulations on your purchase of a new Hitachi display product.

LIMITED WARRANTY

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

Conditions of Hitachi Limited Warranty

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

Hitachi Product :
LCD Flat Panel Televisions

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

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

SERVICE LOCATION: In-home warranty service, which includes either in-home repair or free pick-up and delivery (at Hitachi's option), applies to all Hitachi products except: (i) 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.

IMPORTANT:

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

800.HITACHI (800.448.2244)

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

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

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

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

Warranty Limitations

This Hitachi Limited Warranty does not cover:

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

NO PERSON, AGENT, DISTRIBUTOR, DEALER, SERVICE FACILITY, OR COMPANY IS AUTHORIZED TO CHANGE, MODIFY OR AMEND THE TERMS OF THIS LIMITED WARRANTY IN ANY MANNER WHATSOEVER. EXCEPT AS PROVIDED IN THIS LIMITED WARRANTY, HITACHI MAKES NO EXPRESS WARRANTY REGARDING THIS HITACHI PRODUCT. FURTHER, ALL IMPLIED WARRANTIES RELATING TO ANY PORTION OF THIS PRODUCT, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION SPECIFIED UNDER THIS LIMITED WARRANTY. HITACHI SHALL NOT BE LIABLE TO THE PURCHASER OR TO ANY OTHER PERSON FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSS OF PROFIT OR PRODUCT RESULTING FROM ANY DEFECT IN, OR MALFUNCTION OR FAILURE OF, THIS HITACHI PRODUCT. BECAUSE SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY CONFERs SPECIFIC LEGAL RIGHTS, INCLUDING CERTAIN OTHER RIGHTS THAT MAY VARY DEPENDING ON YOUR JURISDICTION.

End User License Agreement For HITACHI DTV Software

END USER LICENSE AGREEMENT FOR HITACHI DTV SOFTWARE

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- 1. LICENSE GRANT.** **HITACHI** grants to you, for the life of the DTV, a non-exclusive, non-transferable, revocable license to install and use one copy of the Software on the DTV, subject to the following limitations and restrictions:
 - a. You may not share, duplicate, republish or redistribute the Software;
 - b. You may not resell, rent, lease, sublicense, gift, loan, as sign or otherwise transfer the Software or any of your rights under this Agreement;
 - 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
 - d. You may not use the Software for any commercial purpose.
- 2. VIOLATIONS; INDEMNITY.** You understand and agree that your use of the Software in any manner except as permitted under this Agreement could constitute a serious crime and could subject you to damages and an award to **HITACHI** of attorneys’ fees in connection with your violation of this Agreement. You further understand that you may be held legally responsible for any copyright infringement or other violation of intellectual property rights caused or facilitated by your failure to abide by the terms of this Agreement. You agree to defend, indemnify and hold **HITACHI** and its parent and affiliate companies harmless from and against any and all liability resulting from any breach by you of this Agreement.
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- 4. SOFTWARE UPGRADES.** In the future, **HITACHI** may release or make available one or more upgrades to the DTV Software (each, an “Upgrade”). You understand and agree that if you decide to install or use any Upgrade, your installation and use of such Upgrade and/or any other software or intellectual property **HITACHI** may provide in connection therewith shall be governed by the terms and conditions of this Agreement, except to the extent that **HITACHI** provides different or supplementary license terms or conditions that accompany such Upgrade or other software or intellectual property. In the event **HITACHI** provides you with a “flash card” or other media to effect or facilitate an Upgrade, you understand and acknowledge that your failure to return such flash card or other media to **HITACHI** as **HITACHI** may require could result in **HITACHI** placing your name and your DTV’s serial number on a “No Further Upgrades” list, which will prohibit you from receiving any subsequent Upgrades. **HITACHI** may later release or make available. IF YOU DO NOT AGREE WITH ALL THE TERMS AND CONDITIONS OF THIS AGREEMENT OR ALL THE TERMS AND CONDITIONS OF ANY DIFFERENT OR SUPPLEMENTARY LICENSE THAT MAY ACCOMPANY SUCH

UPGRADE, (A) DO NOT USE ANY **HITACHI**-PROVIDED FLASH CARD OR OTHER MEDIA, (B) DO NOT PERFORM INSTALL ANY **HITACHI**-PROVIDED UPGRADE SOFTWARE ON YOUR DTV, AND (C) PROMPTLY RETURN SUCH FLASH CARD OR OTHER MEDIA TO **HITACHI**.

- 5. EXPORT RESTRICTIONS.** **HITACHI** is licensing the Software for use within North America only. You agree that you will not export or re-export the Software. You specifically agree not to export or re-export the Software: (i) to any country to which the U.S. has embargoed or restricted the export of goods or services, which currently include, but are not necessarily limited to Cuba, Iran, Libya, North Korea, Sudan and Syria, or to any national of any such country, wherever located, who intends to transmit or transport the Software back to such country; (ii) to any person or entity who you know or have reason to know will utilize the Software in the design, development, or production of nuclear, chemical, or biological weapons; or (iii) to any person or entity who has been prohibited from participating in U.S. export transactions by any federal agency of the U.S. government. You warrant and represent that neither the U.S. Bureau of Industry and Security nor any other U.S. federal Agency has suspended, revoked, or denied your export privileges.
- 6. NO WARRANTIES.** The software is provided to you in “as is” condition and **HITACHI** makes no warranties of any kind whatsoever regarding the software and, to the maximum extent permitted by law, hereby expressly disclaims all warranties of any kind whatsoever, express or implied, with respect to the software. All implied warranties, including without limitation, the implied warranties of non-infringement, merchantability and fitness for a particular purpose are hereby expressly disclaimed by **HITACHI** to the maximum extent permitted by law.
- 7. LIMITATION OF LIABILITY.** To the maximum extent permitted by applicable law, **HITACHI**, its licensors, suppliers, parent companies, affiliates, subsidiaries, employees and agents shall not under any circumstances be liable to you or any third parties for any damages of any nature arising in any way from this agreement, your use of the software or otherwise, whether indirect, special, incidental, consequential or otherwise, including, without limitation, any claims for lost profits, lost good will, lost data, business interruption, procurement of substitute goods or services, or expenditures made or committed for in reliance on the continuation of this agreement, even if advised in advance of the possibility of such damages.
- 8. NO FAILURE OF ESSENTIAL PURPOSE.** You agree that neither **HITACHI**’s breach of this agreement nor its failure to repair a defect, error or bug in the software shall constitute a failure of the essential purpose of this agreement.
- 9. CRYPTOGRAPHIC SOFTWARE.** The software contains software developed by the OpenSSL Project, including cryptographic software written by Eric Young (the “cryptographic software”). The cryptographic software is provided by the OpenSSL Project in “as is” condition and any express or implied warranties, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose are hereby expressly disclaimed to the maximum extent permitted by law. In no event shall the OpenSSL Project, its contributors, **HITACHI** or any of its parent or affiliate companies be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of the software or the cryptographic software, even if advised in advance of the possibility of such damages.
- 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.

End User License Agreement For Open Source Software

OPEN SOURCE SOFTWARE LICENSE INFORMATION

This Hitachi TV incorporates open source software modules distributed under certain licenses, including the GNU General Public License Version 3 (as defined by the Free Software Foundation, Inc.).

This Hitachi TV incorporates software based in part on the work of the Independent JPEG Group.

Software Module	Library Name	Link	Applicable License
AC3 decoder	liba52.c	www.liba52.sourceforge.net	GNU General Public License Version 3
JPEG decoder	jpeglib.h	http://www.koders.com/c/fidE2795B75345089E3EACAAE-A77B58CB48742FF59.aspx?s=md5	Free
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Appendices

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	Air / Cable	Yes	Yes	Yes	--	Yes	Yes
HDMI 1	HDMI / DVI	1080p, 1080i, 720p, 480p, 480i	Yes	Yes	Yes	Yes	Yes
		640x480, 800x600, 1024x768, 1280x720, 1280x768, 1280x1024, 1440x900, 1680x1050	Yes	--	--	Yes	--
HDMI 2	HDMI / ARC	1080p, 1080i, 720p, 480p, 480i	Yes	Yes	Yes	Yes	Yes
HDMI 3	HDMI		Yes	Yes	Yes	Yes	Yes
COMPONENT	YPbPr		Yes	Yes	Yes	--	Yes
AV	Video		--	Yes	Yes	--	Yes
RGB	Analog RGB		Yes	--	--	Yes	--

Appendix B: RGB Format

640 x 480 @60Hz
720 x 400 @70Hz
800 x 600 @60Hz
1024 x 768 @60Hz
1280 x 720 @60Hz
1280 x 768 @60Hz
1280 x 1024 @60Hz
1440 x 900 @60Hz
1680 x 1050 @60Hz
1920 x 1080 @60Hz

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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NOTE
