

NEED MORE INFO ON THE DTV TRANSITION? See page 40 in this Operating Guide and please visit www.dtvtransition.org



UltraVision[®] LCD Flat Panel HDTV Operating Guide for L42S503

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

MODEL NAME.

_____ SERIAL NO. ____

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











Important Safety Instructions

SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR HITACHI LCD TELEVISION

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

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



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

READ BEFORE OPERATING EQUIPMENT

Follow all warnings and instructions marked on this LCD television.

- Read these instructions. 1.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- Clean only with a dry cloth. 6.
- 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 groundingtype plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use the attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury



- 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

Power source

from tip-over.

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

To prevent electric shock, do not use the LCD television's (polarized) plug with an extension cord, receptacle, or other outlet unless the blades and ground terminal can be fully inserted to prevent blade exposure.

Never connect the LCD television to 50 Hz, direct current, or anything other than the specified voltage.

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

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

Caution

Never remove the back cover of the LCD television as this can expose you to very high voltages and other hazards. If the television does not operate properly, unplug the LCD television and call your authorized dealer or service center.

Adjust only those controls that are covered in the instructions, as improper changes or modifications not expressly approved by Hitachi could void the user's warranty.



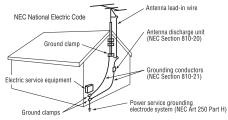
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of a sufficient magnitude to constitute a risk of electric shock to a person.

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.

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.

To the CATV system installer: This reminder is provided to NOTE 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.



Important Safety Instructions

Warning

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

Public viewing of copyrighted material

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

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

Lead/Mercury Notice

Hg

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

FEDERAL COMMUNICATIONS COMMISSION NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

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

Modifications

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

Cables

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

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

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



INDUSTRY CANADA AGENCY REGULATORY INFORMATION

Cable Compatible Television Apparatus- Tèlèvision câblocompatible, Canada.

Declaration of Conformity

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

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

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

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:



THE ISSUE

- The home theater entertainment experience is a growing trend and larger flat displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
- Flat Panel displays that are inappropriately situated on dresser, bookcases, shelves, desks, speakers, chest or carts may fall over and cause injury.

HITACHI CARES!

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

TUNE INTO SAFETY

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

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

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

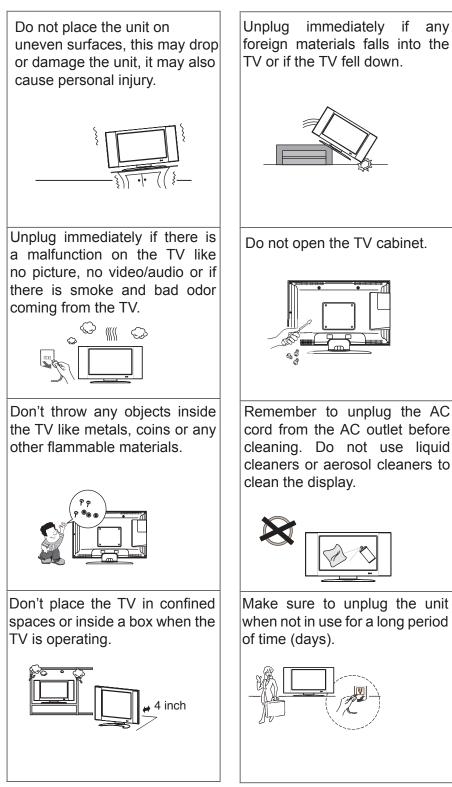
If you are unsure, contact a professional installer.

• A minimum of two people are required for installation. Flat panel displays can be heavy.

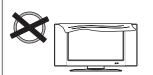




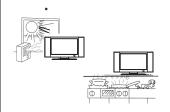
PRECAUTIONS AND REMINDERS



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

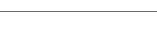


Avoid direct sunlight, dusty, high humidity and smokey locations.



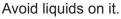
Do not place the TV near water, such as a bathtub, shower rooms, kitchen sink, laundry tub or swimming pool. Avoid liquid containers on top of the unit.





Notice for Remote Controller





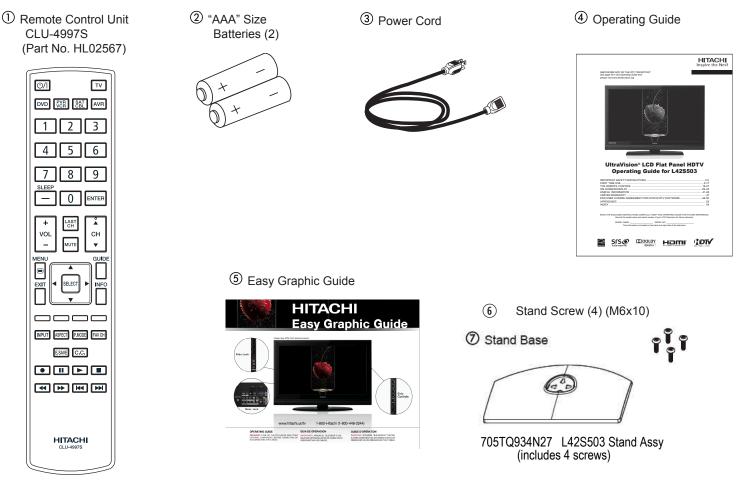






Accessories

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



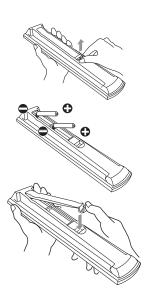
For optional accessories, please access our web site at: www.hitachi.us/tv

- 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.
- Please see page 8 for important information related to wall mounting.

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 making 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.

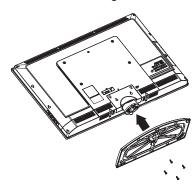
How To Install Your New Hitachi LCD Television

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

ASSEMBLY OF THE BASE IMPORTANT:

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

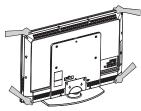
- 1. Place the TV unit face down on a soft and flat surface covered by a blanket, foam, cloth, etc. to prevent any damage or scratches to the LCD TV.
- 2. Carefully align and insert the Base to the TV stand post.
- 3. Insert the screws included with the accessories to the bottom of the base and tighten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



Caution when moving the main unit

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

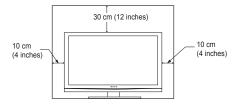
When moving the Television, lift from the corners, then support the top frame as shown below.



Location

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

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





- Do not block the ventilation holes of the LCD Television. Blocking the ventilation holes might cause overheating and damage.
- In case of an abnormal symptom, unplug the AC cord and contact 800-HITACHI.
- If you purchased a wall mount bracket, please ask for professional installation. Do not try to install by yourself.



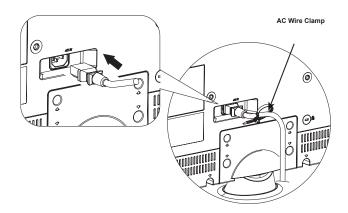
 Install the unit at a proper area where it does not expose anyone to any danger of hitting themselves (for example their hands, head or face, etc.) against the edge of the unit that could cause personal injury.

Power Cord Installation

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

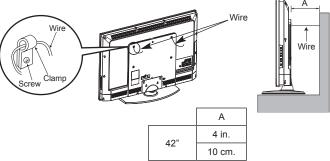
Located on the back of the TV there is one plastic clamp to hold the Power cord. Please follow the instructions below.

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



Securing to a Wall

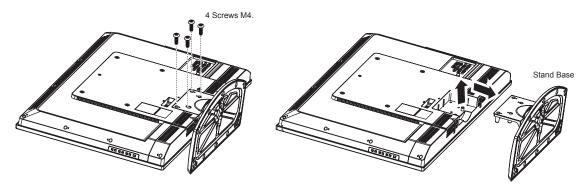
- 1. Using metallic wire (two locations) fasten the set to the clamping screw on the rear of the LCD TV as shown below.
- Keep the LCD television 4 inches away from the wall, except when mounted using the wall mount bracket, and secure to the wall as shown below:



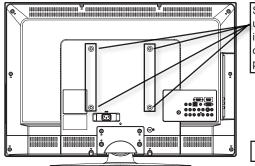
WALL MOUNTING SETUP

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

In order to remove the stand from the TV, please put the TV set on a soft and flat surface (blanket, foam, cloth, etc.) to prevent any damage; then remove the 4 screws shown below in order to separate the TV from the Table Top Stand. Now the Stand can be separated from the TV. Useful dimensions for the WALL MOUNT assembly are in page 45.

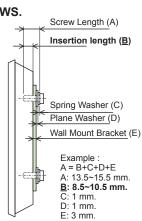


STEP (2) : INSTALL THE WALL MOUNT BRACKETS ON THE LCD TELEVISION USING 4 SCREWS.



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

Wall Mount Brackets



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

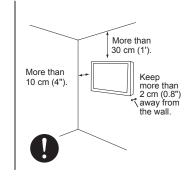
• The screw type :Thread ISO M6 (Metric type, do not use Standard type).

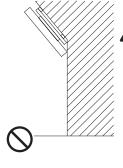


Insertion length (**<u>B</u>**) of the screws must be within $8.5 \sim 10.5$ mm. If the length is less than 8.5 mm, the weight can not be maintained. If the length is more than 10.5 mm, a space is created between the Wall Mount Bracket and the LCD Television. This length is **very important**.

CAUTION

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





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

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

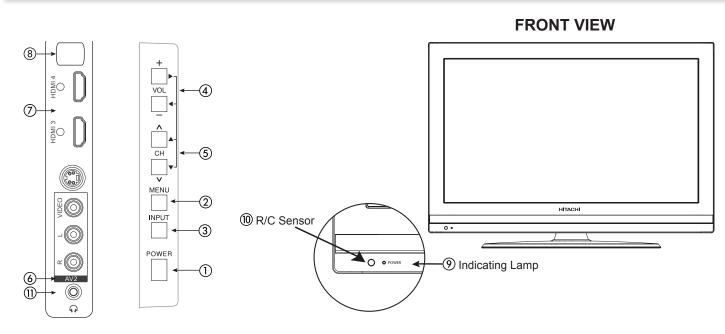


Although this LCD Display Panel can be installed using a variety of third party wall mounting brackets/devices, such third party brackets/devices have not been tested or approved by Hitachi for use or compatibility with this LCD Display Panel. Accordingly, Hitachi accepts no responsibility or liability for any injuries or property damage resulting from the use of such third party brackets/devices. Hitachi strongly advises that any

installation of this LCD Display Panel using wall mounting brackets/devices be performed only by a qualified and experienced television installation technician who has completed a thorough evaluation of:

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

Side Panel Jacks & Controls



① POWER button

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

MENU button

② This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote. This button also serves as the Return button when in the MENU system.

INPUT button

③ Press this button to access the INPUT menu.

VOLUME (+/-) level

④ Press these buttons to adjust the sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left and right buttons when in the Menu system.

CHANNEL selector

⑤ Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down (▼) and up (▲) buttons when in the MENU system.

AV2 (SIDE) JACKS

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

HDMI-3 & HDMI-4

⑦ Use these side HDMI inputs for AV equipment such as Set-Top-Boxes or DVD players equipped with an HDMI output connection (see page 14 for reference).

⑧ USB UPGRADE SLOT

This USB slot is for future software upgrades.

9 POWER light indicator

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

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

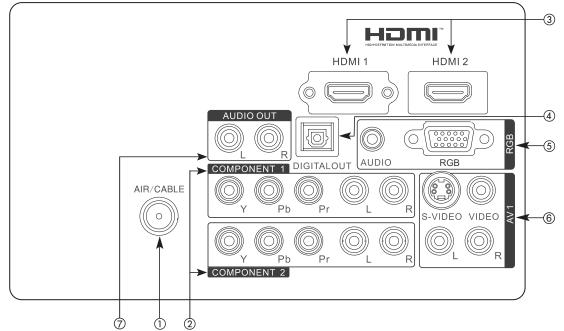
(1) REMOTE CONTROL sensor

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

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

(1) Headphone jack

Use this jack to connect headphones.



① Antenna Input

To switch between Cable and Air, go to the Channels Menu option to change the signal source CABLE or AIR (see page 39).

(2) Component: Y-PbPr and Audio Inputs

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

- 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 P_b input and the components R-Y output to the TV's P_r 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 30).
- ③ HDMI 1, 2 (High Definition Multimedia Interface)

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

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

Digital Out (Optical Digital Audio) This issle provides Digital Audio Optical D

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

- **NOTE** *Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- (5) RGB and AUDIO for Personal Computers (PC) Use the RGB/Analog Audio Input terminal for connecting a PC or Laptop using a RGB cable (D-sub 15 pin) to your LCD TV. Please see page 53 for compatible resolutions.

Composite AV1 JACKS

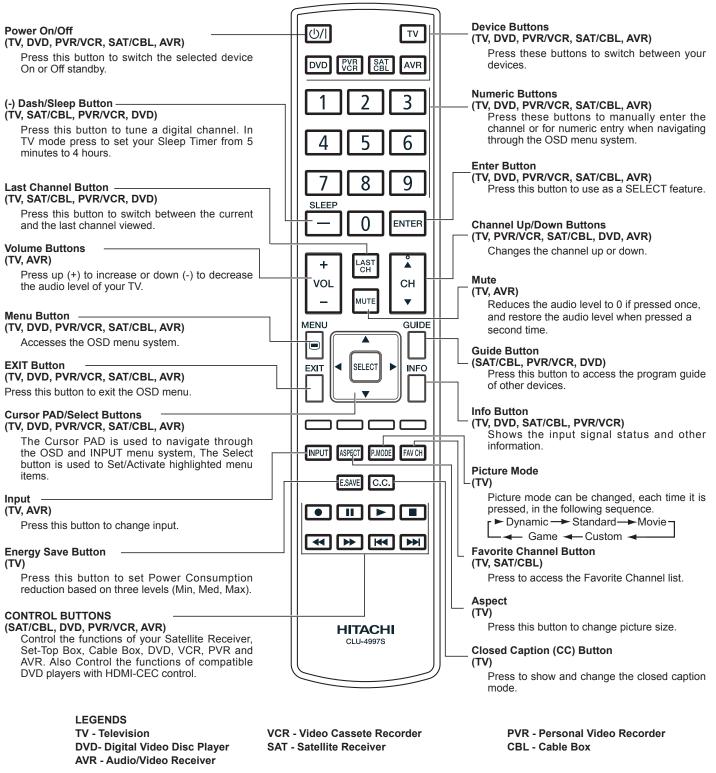
(6) AV1 input provides composite Video and S-Video jacks for connecting equipment with this capability, such as a DVD player, Game Console or Camcorders.

Audio Out jack

⑦ This jack provides stereo audio output from your TV to your audio device, such as an audio amplifier.

Quick Reference Remote Control Buttons and Functions

In addition to controlling all of the functions on your Hitachi LCD TV, the new remote control is designed to operate different types of devices, such as, DVD Players, CBL (Cable Boxes), 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 22~27 for a complete description of all features and programming of the Remote Control.



FIRST TIME USE

NOTES

- The TV's remote control sensor is located on the left bottom corner of the TV frame. To control TV functions, please point the remote control directly at the sensor for best results.

- The pause key "II " on the Remote Control can be use to Freeze the picture on the screen, in case this key is pressed by accident, please press it one more time to restore the moving picture.

- For HDMI CEC details please see page 37.

Quick Setup Guide

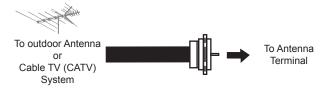
Perform the following steps to quickly setup your new Hitachi LCD Television Set.

1. ANTENNA CONNECTION

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

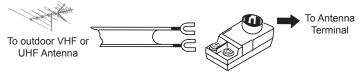
a). VHF (75-Ohm) antenna/CATV (Cable TV)

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



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

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



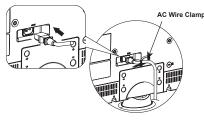
c). When both VHF and UHF antennas are connected



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

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

a). Connect the power cord to your TV set and secure it with the AC Wire Clamp (see page 7) .



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



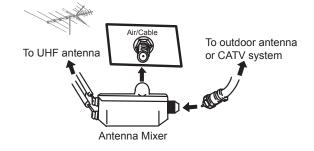
3. POWER ON/OFF YOUR NEW HITACHI LCD TV. Press the POWER button on the Remote Control

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

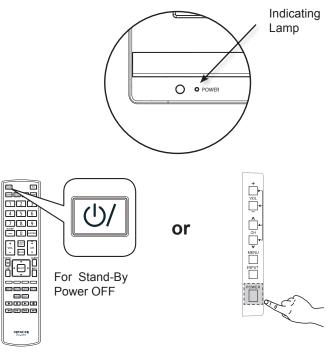


If the Indicating lamp is OFF, the Power Button on the Remote Control will not operate. Please make sure that the power cord is plugged to the AC outlet. Air/Cable

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



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



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

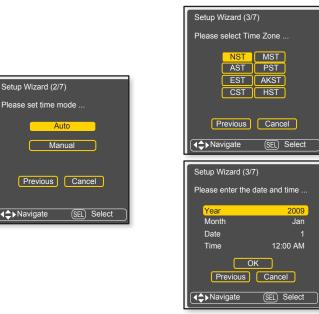
TV Setup Wizard

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

The First time you turn on your Hitachi LCD TV the setup wizard screen will appear. The first step is to set the language of your TV On Screen Menu. Select the language that you prefer. Use the \blacktriangle and \blacktriangledown CURSOR to select language and press the SELECT button on the remote control.



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



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



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



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

Setup Wizard (6/7)		
Searching, please wait		
Searching Analog CH Analog Channels Found Digital Channels Found	Channel 3 10 15	
10% Cancel		
SEL) Cancel		



Once the user cancels the wizard, the wizard will not be shown again.

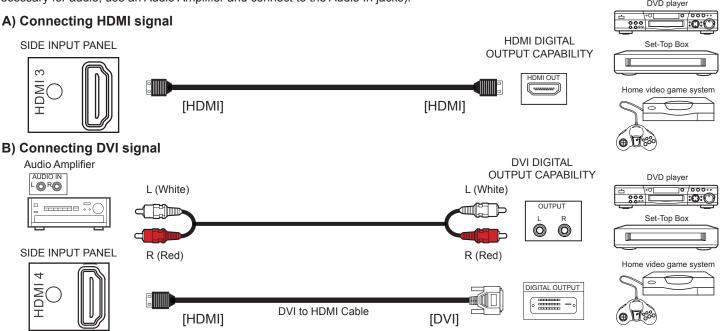
- If you see the screen above and if you did not connect your Antenna cables to your TV, turn off your TV, unplug the power cord and connect your cables according to the applicable connections in the "First Time Use" section of this Operating Guide.
- After completing the TV Setup Wizard, these screens will not appear again. For updating and adding the channels available in your area refer to the Add Channels to List feature on page 39.

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

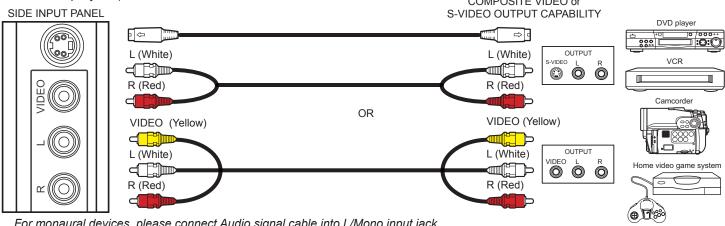
Setup Wizard (7/7)
Congratulations. TV setup is done.
EXIT) Exit

Side Panel Connections

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



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



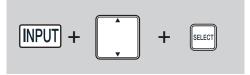
For monaural devices, please connect Audio signal cable into L/Mono input jack .

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

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

Before Operating External Video Sources

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

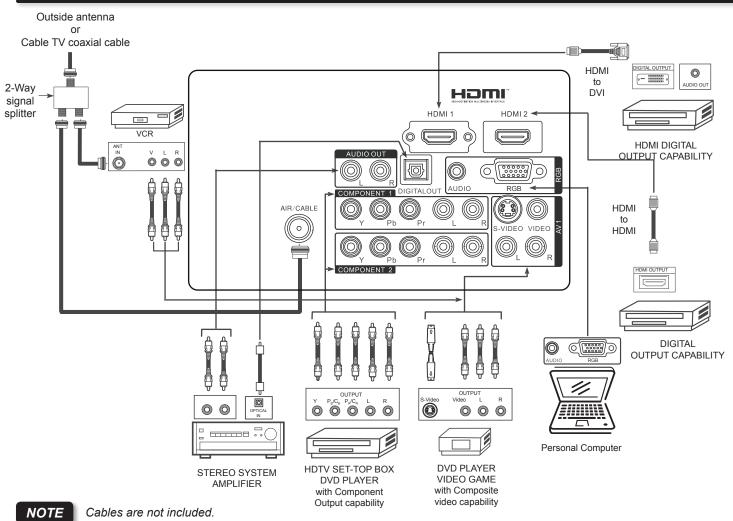




Example: Selecting the TV (Air/Cable) Input and highlight "0.TV".

NOTES

Rear Panel Connections



TIPS ON REAR PANEL CONNECTIONS

- COMPONENT Y-PbPr (COMPONENT 1 & 2) or HDMI (1 & 2) connections are provided for high performance DVD players, VCRs etc. that have this feature. Use these connections in place of the standard video connection if your device has this feature.
- If your device has only one audio output (mono sound), connect it to the left audio jack on (L) the Rear Panel.
- Refer to the operating guide of your other electronic equipment for additional information on connecting your hook-up cables.
- Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack.
- Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's Pb input and the components R-Y output to the TV's Pr input.
- Your component outputs may be labeled Y-CbCr. In this case, connect the components Cb output to the TV's Pb input and the components Cr output to the TV's Pr input.
- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PbPr inputs. (See page 30).
- When using a HDMI input from a Set-Top-Box, it is recommended to use a 1080p, 1080i or 720p input signal.
- When the HDMI input is a 1080p signal, it is recommended that the length of the cable should be less than 5 meters.



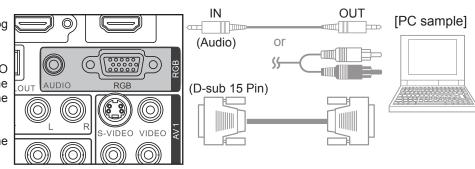
• Completely insert all connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.

• Cable plugs are often color-coded. Match colors of plugs and terminals, i.e. connect red to red, white to white, etc.

Connecting a Personal Computer PC .

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

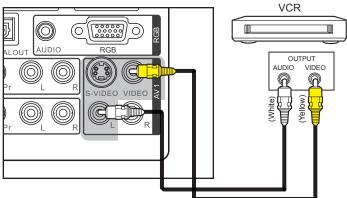
- 1. Connect the RGB (D-sub 15 Pin) and AUDIO cable from the RGB and AUDIO OUT jack of the PC to the RGB and AUDIO jack, as shown on the Rear Panel on the right.
- 2. Press the INPUT button, then select RGB from the INPUTS menu to view the signal from the PC.



CONNECTING A VIDEO AND MONAURAL AUDIO SOURCE TO AV1.

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

TV REAR PANEL

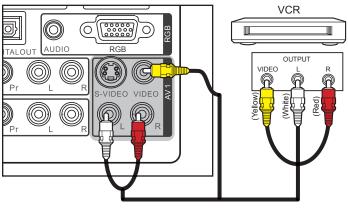


CONNECTING A VIDEO AND STEREO AUDIO SOURCE TO AV1.

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

TV REAR PANEL

TV REAR PANEL



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

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

NOTES

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

Rear Panel Connections

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

- 1. Connect the HDMI or DVI to HDMI connection cable from the output of the HDTV set top box or DVD player to the HDMI input as shown near the Rear panel at right.
- With DVI output, connect the audio cables from the AUDIO OUT jack of the HDTV set top box or DVD player to an external audio amplifier as shown to the right below. Optionally you can use the Audio input from the RGB audio connections when used with the HDMI1 input.
- 3. Press the INPUT button, then select HDMI 1 or 2 to view the program from the HDTV SET-TOP BOX or DVD player.

NOTES

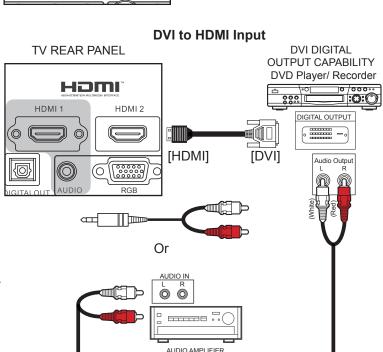
- Completely insert the connection cord plugs when connecting to the rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- When using a DVI to HDMI cable, connect the Audio Out L and R cables to an external audio amplifier.
- The HDMI input on HDMI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

CONNECTING AN EXTERNAL AUDIO AMPLIFIER

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

The OPTICAL OUT terminal outputs all audio sources to equipment with Optical IN capability.

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



HDMI Input

[HDMI] [HDMI]

<u>Note</u> : An external Audio amplifier can be use for the same purpose.

TV REAR PANEL

TV REAR PANEL

HDMI 1

(0

0

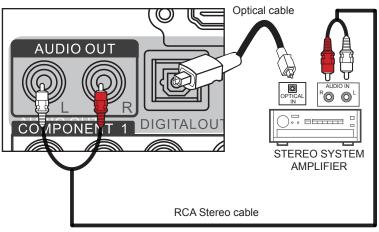
DIGITALOUT

Homi

HDMI 2

RGP

O



NOTES

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

HDMI DIGITAL

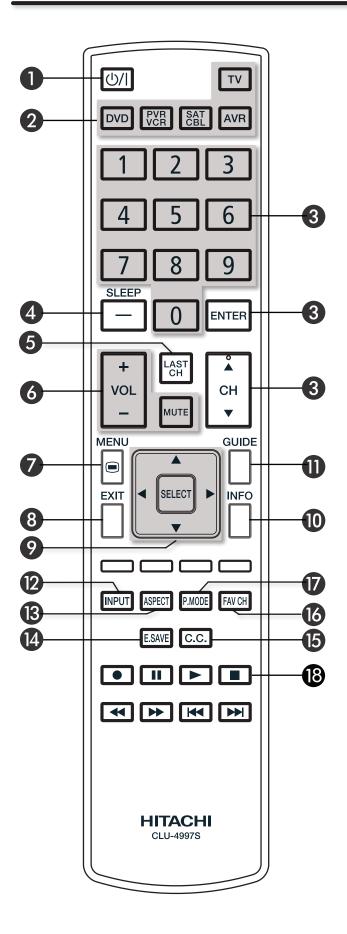
OUTPUT CAPABILITY

DVD Player/ Recorder

HDMI OUT

["IS

∣o /ooo... ⊐ **:O:**©



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 equipment with one touch. Basic operation keys 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 will now control your television.

Repeat the same procedure for your DVD (press the DVD button), for your PVR/VCR (Personal Video Recorder) press the PVR/VCR button on the remote. For your cable box, set-top-box or satellite receiver (press the SAT/CBL button), for your Audio/Video System (press the AVR button). See pages 22~27 for instructions on how to program the remote 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).

(-) DASH /Sleep Button

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

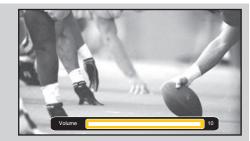
G LAST CHANNEL button

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

OVULUME (VOL), MUTE button

Press the VOLUME button (+ or -) until you obtain the desired sound level.

Press the MUTE button to turn the sound off completely (MUTE). To restore the sound, press the MUTE button one more time, or VOL UP (+).





How to Use the Remote to Control your TV

Closed Captioning will display automatically when MUTE is on and Closed Caption is set to With Mute (see page 36). 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 is turned off.

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.

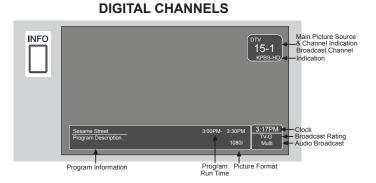
INFO button

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.

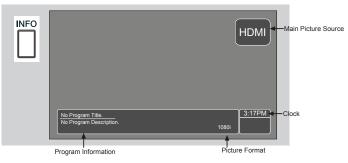


Analog Channe

Program Information



VIDEO INPUTS





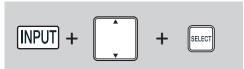
- Press the INFO button again or the EXIT button to return to normal viewing.
 - The Aspect INFO will not be shown when the INFO key is pressed.

GUIDE button

Press this button to access the Channel Guide of your Satellte receiver, Set Top Box or Cable Box while in SAT/CBL mode.

INPUT button

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





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

How to Use the Remote to Control your TV

ASPECT button

Press this button to quickly change the picture format ASPECT ratio. Depending on the input ratio, 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

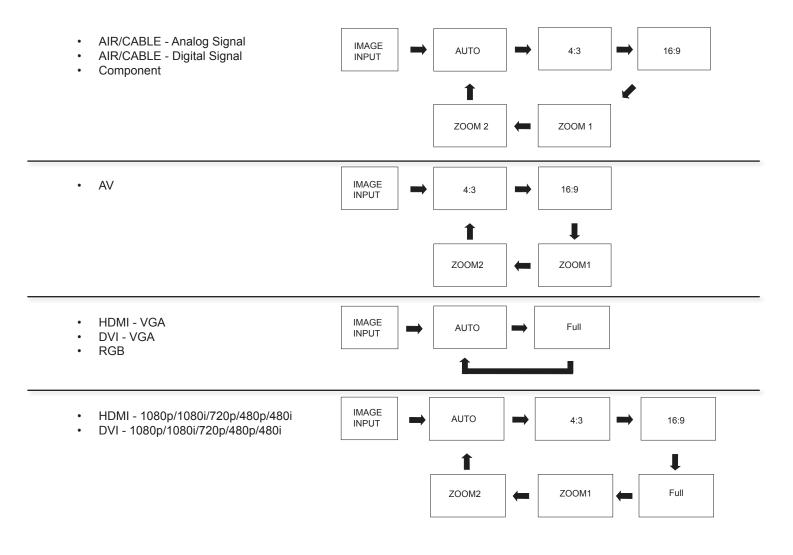
Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio showing 95% of the size.

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 53 for Aspect availability according to signal format in use.

E.SAVE (ENERGY SAVE) button

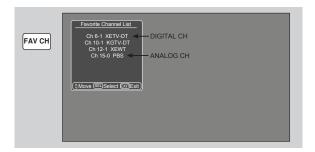
Use this button to choose power consumption reduction settings based on 3 levels (MIN., MEDIUM, MAX).

CLOSED CAPTIONS (CC) button

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

6 FAV CH button

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



Picture mode button

Press this button to toggle between Dynamic, Standard, Movie, Custom and Game picture mode settings. Select Dynamic for automatic brightness and contrast adjustment. Select Standard for day time viewing with more brightness and contrast to compete with room light. Select Movie for viewing with less brightness and contrast for a more detailed picture. Select Custom for viewing with your own brightness and contrast picture settings. Game for automatic brightness and contrast adjustment when playing video games.(see page 30 for settings changes).

B 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, DVR, STB while in TV mode.

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

OPERATING THE PRECODED FUNCTIONS FOR YOUR AV EQUIPMENT.

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 equipment. You must first program the remote to match the remote system of your AV equipment (refer to pages 26~27 for a preprogrammed code number).

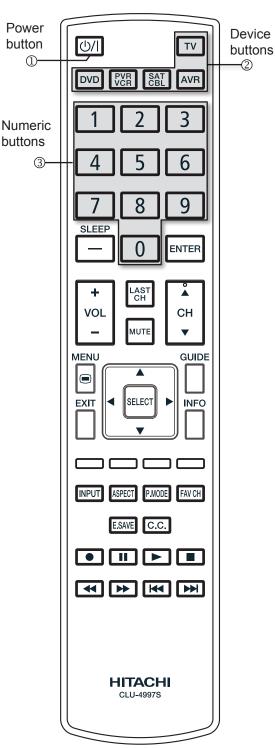
AV COMPONENT CONTROL SETUP PROCEDURE

- 1. Turn on your AV Component.
- Select the desired mode: DVD, PVR/VCR, SAT/CBL or AVR by pressing the corresponding button.
- Hold down the device button (DVD, PVR/VCR, SAT/CBL or AVR) on the remote and enter the four digit preset code that matches your device as shown on pages 26~27.
- 4. Release the device button.
- 5. If done correctly, the device LED indicator will blink 3 times to confirm proper setup.
- 6. The remote will now control the desired device.

SETUP EXAMPLE (Hitachi Cable Box with precode 0003)

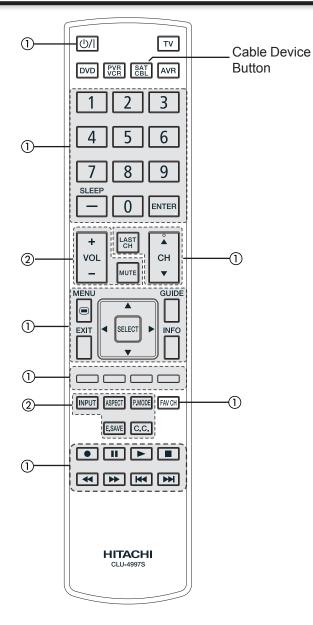
- 1. Turn ON your Cable box.
- 2. Select Cable mode by using your SAT/CBL button to position the LED indicator on SAT/CBL.
- 3. Hold down the SAT/CBL button on the remote and press the numbers 0, 0, 0 and 3.
- 4. Release the SAT/CBL button.
- 5. The indicator light will flash 3 times if the code was accepted.
- 6. Aim the remote at the cable box and press the POWER button. The remote 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 will now control your Cable box.

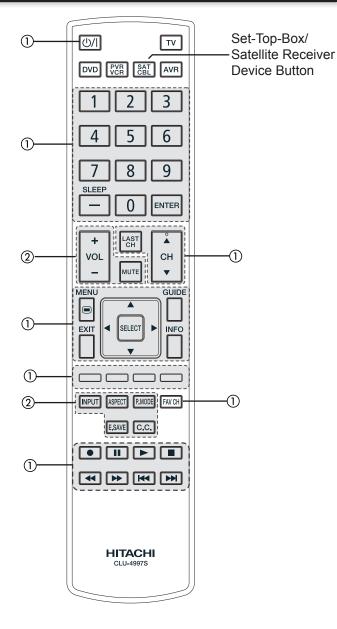
Repeat the same procedure for your set-top-box or satellite receiver (select SAT/CBL), your DVD (select DVD), your VCR/ PVR(select VCR/PVR), or your AVR (select AVR).





- If your AV component cannot be operated after performing the above procedures, your AV component code has not been
 preprogrammed into the remote.
- In the unlikely event that your AV component cannot be operated after performing the above procedures, please consult your AV component operating 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 key and enter "9", "8", "1" in sequence.





MY CABLE BOX CODE IS:

NOTE Refer to 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, FWD, Skip	Pause, RWD, 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

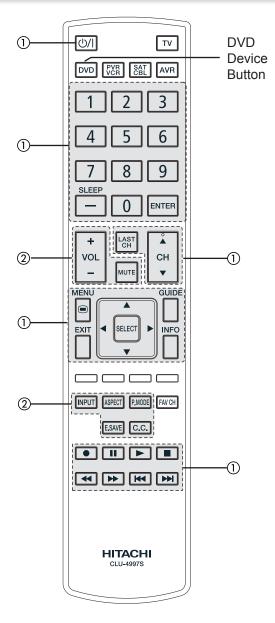
Refer to instruction manual of the Set-Top-Box/ Satellite Receiver for operation of the buttons exclusively for the Set-Top-Box/Satellite Receiver.

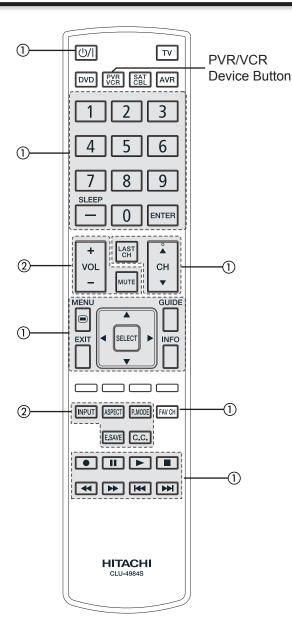
① **PRECODED SET-TOP BOX/SATELLITE buttons** These buttons transmit the chosen precoded *Set-Top-Box/Satellite Receiver* codes :

-Power	-Cursor & Select	-Number PAD
-Menu	-Info	-Enter
-Exit	-Channel Up & Down	-Dash (-)
-Guide	-Last CH	-Fav CH
-Play, Stop, FWD, Skip	Pause, RWD, 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 DVD PLAYER CODE IS:

NOTE Refer to 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 precoded 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 -E. Save	-Vol Up & Down	-Mute	

MY VCR/PVR CODE IS:

NOTE

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

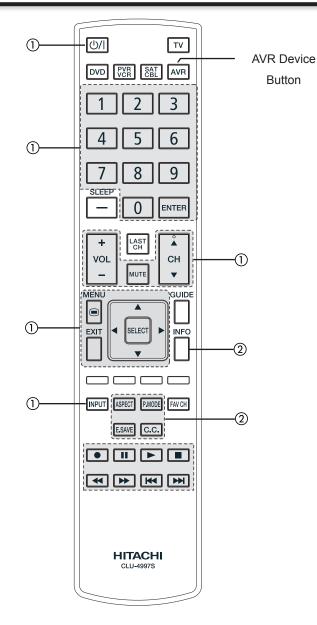
① PRECODED VCR/PVR buttons

These buttons transmit the chosen precoded VCR/PVR codes :

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

② EXCLUSIVE TV buttons

These buttons a	are for operating the T	V :
-P. Mode	-CC	-Input
-Aspect -E.Save	-Vol Up & Down	-Mute



MY AUDIO/VIDEO RECEIVER (AVR)

CODE IS:___

NOTE

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

① PRECODED AVR buttons

INCOOD		
These bu	uttons transmit the ch	nosen precoded 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	0003
TELECOM	
CENTURY	0008
DIGEO	1187,2187
DIGI	0637
DIRECTOR	0476
DUMONT	0637
FOSGATE	0276
GE	0144
GENERAL INSTRUMENT	0476,0810,0276 0003
GIBRALTER	0003
GOLDSTAR	0144
HITACHI	0003,0008
INSIGHT	0476,0810
JERROLD	0476,0810,0276
02111020	0003
MEMOREX	0000
MITSUBISHI	0003
MOTOROLA	1376,0476,0810
	0276,1187,1254 1106
	0008
NOVA VISION NOVAPLEX	0008
NSC	0637
PACE	1877,0877,0237
TACL	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
RUNCO	0000
SAMSUNG	0003,0144
SASKTEL SCIENTIFIC	1737
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	CODES
COMBO DIGEO	1187,2187
GENERAL	0810
INSTRUMENTS	
JERROLD	0810
MOTOROLA	1376,0810,1187
DACE	1106
PACE	1877,0237
PIONEER SASKTEL	1877,0877 1737

NOVAPLEX NSC PACE	0008 0637 1877,0877,0237 0008
PANASONIC PANTHER PARAGON	0000,0008,0144 0637
PENNEY PHILIPS PIONEER	0000,0008,0525 0000,0637 1305,0317 1877,0877,0144
PULSAR QUASAR REGAL RUNCO SAMSUNG	0533 0000 0000 0276 0000
SAMSUNG SASKTEL SCIENTIFIC ATLANTA	0003,0144 1737 1877,0877,0477 0237,0003,0000 0008
SONY SPRUCER STARCOM STORM	1006 0144 0003 0637
SUPERCABLE TORX TOSHIBA UNITED CABLE	0276 0003 0000 0276,0003
US ELECTRONICS VIDEOWAY ZENITH	0276,0003,0008 0000 0000,0525
ELECTRONICS VIDEOWAY ZENITH CABLE/PVR	0000
ÉLECTRONICS VIDEOWAY ZENITH CABLE/PVR COMBO DIGEO GENERAL	0000 0000,0525
ÉLECTRONICS VIDEOWAY ZENITH CABLE/PVR COMBO DIGEO	0000 0000,0525 CODES 1187,2187 0810 0810 1376,0810,1187
ELECTRONICS VIDEOWAY ZENITH CABLE/PVR COMBO DIGEO GENERAL INSTRUMENTS JERROLD MOTOROLA PACE PIONEER SASKTEL SCIENTIFIC	0000 0000,0525 CODES 1187,2187 0810 0810
ELECTRONICS VIDEOWAY ZENITH CABLE/PVR COMBO DIGEO GENERAL INSTRUMENTS JERROLD MOTOROLA PACE PIONEER SASKTEL	0000 0000,0525 CODES 1187,2187 0810 1376,0810,1187 1106 1877,0237 1877,0877 1737
ELECTRONICS VIDEOWAY ZENITH CABLE/PVR COMBO DIGEO GENERAL INSTRUMENTS JERROLD MOTOROLA PACE PIONEER SASKTEL SCIENTIFIC ATLANTA SONY SUPERCABLE SATELLITE BRAND	0000 0000,0525 CODES 1187,2187 0810 1376,0810,1187 1106 1877,0237 1877,0877 1737 1877,0877 1877,0877
ELECTRONICS VIDEOWAY ZENITH CABLE/PVR COMBO DIGEO GENERAL INSTRUMENTS JERROLD MOTOROLA PACE PIONEER SASKTEL SCIENTIFIC ATLANTA SONY SUPERCABLE SATELLITE	0000 0000,0525 CODES 1187,2187 0810 1376,0810,1187 1106 1877,0237 1877,0877 1737 1877,0877 1006 0276

CROSSDIGITAL DIRECTV 1109 1377,0392,0566 0639,1639,1142 0247,0749,1749 0819,1856,1076 1108,0099,1109 1392,1414,1442 1443,1609,1640 DISH NETWORK 1505,1005,0775 NETWORK 1505,1005,0775 SYSTEM 1505,1005,0775 DISHPRO 1505,1005,0775 FORTEC STAR 1505,1005,0775 FORTEC STAR 1821 FUNAI 1377 GE 0392,0566 GENERAL 0775,1775 HITACHI 0749,0819,1250 HOUSTON 0775,1775 HUGHES 1142,0749,1749 NETWORK 1442,1443 SYSTEMS INNOVA INNOVA 0099 JERROLD 0869 JVC 0775,1170,1775 LG 1414 MAGNAVOX 0722 MCINTOSH 0869 MITSUBISHI 0749 MOTOROLA 0869,0856 NETSAT 0099 PANASONIC 0247,0701 PANASONIC 0247,0701 PANASONIC 0247,075,0856		
DISHPRO 1505,1005,0775 T775 ECHOSTAR 1505,1005,0775 EXPRESSUU 0775,1775 FORTEC STAR 1821 FUNAI 1377 GE 0392,0566 GENERAL 0869 INSTRUMENTS 0775,1775 HITACHI 0749,0819,1250 HOUSTON 0775,1775 HUGHES 1142,0749,1749 NETWORK 1442,1443 SYSTEMS 11NOVA INNOVA 0099 JERROLD 0869 JVC 0775,1170,1775 LG 1414 MAGNAVOX 0722 MCINTOSH 0869 MITSUBISHI 0749 MOTOROLA 0869 MEXT LEVEL 0869 PANASONIC 0247,0701 PANASONIC 0247,0701 PANASONIC 0247,0701 PANASONIC 0392,0566 RADIOSHACK 0566,0775,0869 RADIOSHACK 0656,0775,0869 RCA <td< td=""><td>DIRECTV DISH NETWORK</td><td>$\begin{array}{c} 1377,0392,0566\\ 0639,1639,1142\\ 0247,0749,1749\\ 0819,1856,1076\\ 1108,0099,1109\\ 1392,1414,1442\\ 1443,1609,1640\\ \end{array}$</td></td<>	DIRECTV DISH NETWORK	$\begin{array}{c} 1377,0392,0566\\ 0639,1639,1142\\ 0247,0749,1749\\ 0819,1856,1076\\ 1108,0099,1109\\ 1392,1414,1442\\ 1443,1609,1640\\ \end{array}$
ECHOSTAR 1505,1005,0775 EXPRESSVU 0775,1775 EXPRESSVU 0775,1775 FORTEC STAR 1821 FUNAI 1377 GE 0392,0566 GENERAL 0869 INSTRUMENTS 0069 GOI 0775,1775 HUGHES 1142,0749,1749 NETWORK 1442,1443 SYSTEMS 11NNOVA INNOVA 0099 JERROLD 0869 JVC 0775,1170,1775 LG 1414 MAGNAVOX 0722 MCINTOSH 0869 MOTOROLA 0869,0856 NETSAT 0099 NETSAT 0099 NET LEVEL 0869 PANASONIC 0247,0701 PANASONIC 0247,0701 PANASONIC 0247,0701 PANASONIC 0247,0701 PANASONIC 0247,0701 PANASONIC 0247,075,0859 GONY 0392,0566 RADI		1505,1005,0775
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FUNAI 1377 GE 0392,0566 GENERAL 0869 INSTRUMENTS 070 GOI 0775,1775 HITACHI 0749,0819,1250 HOUSTON 0775 HTS 0775,1775 HUGHES 1142,0749,1749 NETWORK 1442,1443 SYSTEMS INNOVA INNOVA 0099 JERROLD 0869 JVC 0775,1170,1775 LG 1414 MAGNAVOX 0722 MCINTOSH 0869 MITSUBISHI 0749 MOTOROLA 0869,0856 NETSAT 0099 NETSAT 0099 PANASONIC 0247,0701 PANASONIC 0247,0701 PANASONIC 0247,0701 PANSONIC 0247,0701 PANSONIC 0247,0701 PANSONIC 0247,0701 PANSONIC 0247,0701 PANSONIC 0247,0701 PANSONIC		
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NETWORK 1442,1443 SYSTEMS IINNOVA 0099 JERROLD 0869 JVC 0775,1170,1775 LG 1414 MAGNAVOX 0722 MCINTOSH 0869 MITSUBISHI 0749 MOTOROLA 0869,0856 NETSAT 0099 NEXT LEVEL 0869 PANASONIC 0247,0701 PANSAT 1807 PHILIPS 1142,0749,1749 0775,0819,1076 0722,0099,1442 PIONEER 1142,1442 PROSCAN 0392,0566 RADIOSHACK 0566,0775,0869 RCA 0392,0566 TIVO 1142,1442,1443 1302,1442 1609 SKY 0856,0099 SONY 0392,0566 TIVO 1142,1442,1443 TOSHIBA 0749,1749,0790 ULTIMATE TV 1806 UNIDEN 0772 VOOM 0869 ZENITH 0856,1856,1810	HTS	0775,1775
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MITSUBISHI 0749 MOTOROLA 0869,0856 NETSAT 0099 NEXT LEVEL 0869 PANASONIC 0247,0701 PANSAT 1807 PHILIPS 1142,0749,1749 PIONEER 1142,1749,1749 PROSCAN 0392,0566 RADIOSHACK 0392,0566 RADIOSHACK 0392,0566 RADIOSHACK 0392,0566 SAMSUNG 1377,1142,1276 1108,1109,1142 1609 SKY 0856,0099 SONY 0639,1639,1640 STAR CHOICE 0869 STAR TRAK 0869 TOSHIBA 0749,1749,0790 ULTRASAT 1302,1640 ULTRASAT 1302,1640 ULTRASAT 1302,1640 ULTRASAT 1305,0775 BELL 0775,1170 EXPRESSVU 0775,1170 EXPRESSVU 0775 DISH PRO 1505,0775 NETWORK SYSTEM DISH PRO <td< td=""><td>MAGNAVOX</td><td>0722</td></td<>	MAGNAVOX	0722
NETSAT 0099 NEXT LEVEL 0869 PANASONIC 0247,0701 PANSAT 1807 PHILIPS 1142,0749,1749 PTOSCAN 0392,0566 PANISSTAR 0392,0566 PROSCAN 0392,0566 PROSCAN 0392,0566 PROSCAN 0392,0566 PROSCAN 0392,0566 RADIOSHACK 0566,0775,0869 RCA 0392,0566 PROSCAN 0392,0566 SAMSUNG 1377,1142,1276 SAMSUNG 1377,1142,1276 SAMSUNG 1377,1142,1276 SONY 0639,1639,1640 STAR TRAK 0869 THOMSON 0392,0566 TIVO 1142,1442,1443 TOSHIBA 0749,1749,0790 ULTRASAT 1806 UNIDEN 0722 VOOM 08656,1856,1810 SATR CHOICE 0775,1170 EXPRESSVU 0775 DISH 1505,0775 BELL 07	MITSUBISHI	0749
PANASONIC PANSAT 0247,0701 1807 PHILIPS 1142,0749,1749 0775,0819,1076 0722,0099,1442 PIONEER 1142,1442 PRIMESTAR 0369 PROSCAN 0392,0566 RADIOSHACK 0566,0775,0869 RCA 0392,0566 RADIOSHACK 0566,0775,0869 SAMSUNG 1377,1142,1276 108,1109,1442 1609 SAMSUNG 1377,1142,1276 SAMSUNG 0392,0566 TVO 0639,1639,1640 STAR CHOICE 0869 STAR TRAK 0749,1749,0790 ULTRASAT 1806 UNIDEN 0722,00566 TIVO 1142,1442,1443 TOSHIBA 0749,1749,0790 ULTRASAT 1806 UNIDEN 0722,0009 2ENITH 0856,1856,1810 SAT/PVR CODES COMBO 0142,1706,0099 1392,1442,1443 1640 1142,1076,0099 1392,1442,1443 1640 DISH PRO 1505,0775,1170<	NETSAT	0099
PANSAT 1807 PHILIPS 1142,0749,1749,1749 O775,0819,1076 0722,0099,1442 PRIMESTAR 0869 PROSCAN 0392,0566 RADIOSHACK 0566,0775,0869 RCA 0392,0566 RADIOSHACK 0566,0775,0869 RCA 0392,0566 SAMSUNG 1377,1142,1276 1108,1109,1442 1609 SKY 0856,0099 SONY 0639,1639,1640 STAR CHOICE 0869 STAR TRAK 0869 THOMSON 0392,0566 TIVO 1142,1442,1443 TOSHIBA 0749,1749,0790 ULTIMASAT 1806 UNIDEN 0722,0009 SAT/PVR CODES COMBO 0775,1170 EXPRESSVU 0775,1170 EXPRESSVU 0775,1170 EXPRESSVU 0775,1170 EXPRESSVU 0775,1170 EXPRESSVU 0775 NETWORK SYSTEM DISH PRO		
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PROSCAN RADIOSHACK 0869 RCA 0392,0566,0775,0869 RCA 0392,0566,1142 O775,0855,0143 1392,1442 SAMSUNG 1377,1142,1276 1108,1109,1442,1609 SKY 0856,0099 SONY 0639,1639,1640 STAR CHOICE 0869 THOMSON 0392,0566 TIVO 1142,1442,1443 TOSHIBA 0749,1749,0790 ULTIMATE TV 1392,1640 ULTIMATE TV 1392,1640 ULTIMATE TV 1392,1640 ULTIMATE TV 1392,1640 ULTIMASAT 1806 UNIDEN 0722 VOOM 0869 ZENITH 0856,1856,1810 SAT/PVR CODES COMBO BELL 0775,1170 EXPRESSVU 1377,0392,0639 1142,1442,1443 1505,0775 NETWORK SYSTEM 1505,0775 NETWORK SYSTEM 1505,0775 HUGHES 142,1442,1443 NETWORK SYSTEMS 100,775,1170 EXPRESSVU 0775 HUGHES 142,1442,1443 NETWORK SYSTEMS 100,775 HUGHES 1442,1442 SONY 0639,1640 STAR CHOICE 0869 PHILIPS 1142,1442,1443 NETWORK SYSTEMS 1442 SONY 0639,1640 STAR CHOICE 0869 PHILIPS 1142,1442,1443 XETWORK SYSTEMS 1442 SONY 0639,1640 STAR CHOICE 0869 PHILIPS 1142,1442,1443 XETWORK SYSTEMS 1442 SONY 0639,1640 STAR CHOICE 0869 PHILIPS 1142,1442,1443 ZENITH 1810 VCR Brand CODES A-MARK 0037,0240,0000 0278,0046 ABS 1972 ACCURIAN 0000		1142,1442
RCA 0392(0566,1142 0775,0855,0143) SAMSUNG 1377,1142,1276 108,1109,1442 1609 SKY 0856,0099 SONY 0639,1639,1640 STAR CHOICE 0869 STAR CHOICE 0869 THOMSON 0392,0566 TIVO 1142,1442,1443 TOSHIBA 0749,1749,0790 ULTRASAT 1806 UNIDEN 0722 VOOM 0869 ZENITH 0856,1856,1810 SAT/PVR CODES COMBO 0142,1442,1443 DISH 0775,1170 EXPRESSVU 01775,1170 DISH PRO 1505,0775 ECHOSTAR 1505,0775 NETWORK SYSTEM DISH PRO 1505,0775,1170 EXPRESSVU 0775,1170 MOTOROLA 0869 PHILIPS 1142,1442,1443 VCC 1170 MOTOROLA 0869 PHILIPS 1142,1442,1442 PROSCAN <td< td=""><td>PROSCAN</td><td>0392,0566</td></td<>	PROSCAN	0392,0566
1392,1442 SAMSUNG 1377,1142,1276 1108,1109,1442 1609 SKY 0856,009 SONY 0639,1639,1640 STAR TRAK 0869 THOMSON 0392,0566 TIVO 1142,1442,1443 TOSHIBA 0749,1749,0790 ULTIMATE TV 1392,1640 DISH 0775,1170 EXPRESSVU 0775,1170 EXPRESSVU 1377,0392,0639 DISH 1505,0775 BELL 0775,1170 EXPRESSVU 0775,1170 EXPRESSVU 0775,1170 EXPRESSVU 0775 DISH PRO 1505,0775 HUGHES 1142,1442,1443 NETWORK SYSTEMS JVC 1170 MOTOROLA 086		0392,0566,1142
SKY 0856,0099 SONY 0639,1639,1640 STAR CHOICE 0869 STAR TRAK 0869 THOMSON 0392,0566 TIVO 1142,1442,1443 TOSHIBA 0749,1749,0790 ULTIMATE TV 1392,1640 ULTRASAT 1806 UNIDEN 0722 VOOM 0869 ZENITH 0856,1856,1810 SAT/PVR COBES COMBO 0775,1170 EXPRESSVU 0775,1170 DIRECT TV 1377,0392,0639 1142,1076,0099 1392,1442,1443 1640 1505,0775 DISH 1505,0775 NETWORK SYSTEM DISH PRO 1505,0775,1170 EXPRESSVU 0775 DISH PRO 1505,0775 ECHOSTAR 1505,0775 ECHOSTAR 1505,0775 BUHPRO 1505,0775 VCC 1170 MOTOROLA 0869 PHILIPS 1142,1442,1443	SAMSUNG	1392,1442 1377,1142,1276 1108,1109,1442
THOMSON 0392,0566 TIVO 1142,1442,1443 TOSHIBA 0749,1749,0790 ULTRASAT 1392,1640 ULTRASAT 1806 UNIDEN 0722 VOOM 0869 ZENITH 0856,1856,1810 SAT/PVR CODES COMBO 0775,1170 EXPRESSVU 01775,1170 DIRECT TV 1377,0392,0639 1142,1076,0099 1392,1442,1443 1640 1505,0775 DISH 1505,0775 NETWORK SYSTEM DISH PRO 1505,0775,1170 EXPRESSVU 0775,1170 EXPRESSVU 0775 HUGHES 1142,1442,1443 NETWORK SYSTEMS JVC 1170 MOTOROLA 0869 PHILIPS 1142,1442,1443 SONY 0639,1640 STAR CHOICE 0869 TIVO 1142,1442,1443 ZENITH 1810 VC 1142,1442,1443	SONY	0856,0099 0639,1639,1640 0869
ULIRASAT 1806 UNIDEN 0722 VOOM 0869 ZENITH 0856,1856,1810 SAT/PVR CODES COMBO BELL 0775,1170 EXPRESSVU DIRECT TV 1377,0392,0639 1142,1076,0099 1392,1442,1443 1640 DISH 1505,0775 NETWORK SYSTEM 1505,0775 ECHOSTAR 1505,0775,1170 EXPRESSVU 0775 ECHOSTAR 1505,0775,1170 EXPRESSVU 0775 HUGHES 1142,1442,1443 NETWORK SYSTEMS JVC 1170 MOTOROLA 0869 PHILIPS 1142,1442 PROSCAN 0392 RCA 1392 SAMSUNG 1442 SONY 0639,1640 STAR CHOICE 0869 TIVO 1142,1442,1443 ZENITH 1810 VCR Brand CODES A-MARK 0037,0240,0000 0278,0046 ABS 1972	THOMSON TIVO	0392.0566
UNIDEN 0722 VOOM 0869 ZENITH 0856,1856,1810 SAT/PVR CODES COMBO 0775,1170 EXPRESSVU DIRECT TV 1377,0392,0639 1142,1076,0099 1392,1442,1443 1640 DISH 1505,0775 NETWORK SYSTEM DISH PRO 1505,0775 NETWORK SYSTEM DISH PRO 1505,0775 HUGHES 1450,0775,1170 EXPRESSVU 0775 HUGHES 1142,1442,1443 NETWORK SYSTEMS JVC 1170 MOTOROLA 0869 PHILIPS 1142,1442 PROSCAN 0392 RCA 1392 SAMSUNG 1442 SONY 0639,1640 STAR CHOICE 0869 TIVO 1142,1442,1443 ZENITH 1810 VCR Brand CODES A-MARK 0037,0240,0000 0278,0046 ABS 1972 ACCURIAN 0000	ULTIMATE TV	0749,1749,0790 1392,1640
ZENITH 0856,1856,1810 SAT/PVR CODES COMBO BELL 0775,1170 EXPRESSVU DIRECT TV 1377,0392,0639 1142,1076,0099 1392,1442,1443 1640 DISH 1505,0775 NETWORK SYSTEM DISH PRO 1505,0775 NETWORK SYSTEM DISH PRO 1505,0775 HUGHES 1450,0775,1170 EXPRESSVU 0775 HUGHES 1142,1442,1443 NETWORK SYSTEMS JVC 1170 MOTOROLA 0869 PHILIPS 1142,1442 PROSCAN 0392 RCA 1392 SAMSUNG 1442 SONY 0639,1640 STAR CHOICE 0869 TIVO 1142,1442,1443 ZENITH 1810 VCR Brand CODES A-MARK 0037,0240,0000 0278,0046 ABS 1972	UNIDEN	0722
BELL 0775,1170 EXPRESSVU 1377,0392,0639 DIRECT TV 1377,0392,0639 142,1076,0099 1392,1442,1443 1640 1505,0775 DISH 1505,0775 DISH PRO 1505,0775 ECHOSTAR 1505,0775,1170 EXPRESSVU 0775 HUGHES 1142,1442,1443 NETWORK SYSTEMS JVC 1170 MOTOROLA 0869 PHILIPS 1142,1442,1442 PROSCAN 0392 RCA 1392 SAMSUNG 1442 SONY 0639,1640 STAR CHOICE 0869 TIVO 1142,1442,1443 ZENITH 1810 VCR Brand CODES A-MARK 0037,0240,0000 0278,0046 ABS ACURIAN 0000	ZENITH	0856,1856,1810
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DISH 1505,0775 NETWORK SYSTEM DISH PRO 1505,0775 ECHOSTAR 1505,0775,1170 EXPRESSVU 0775 HUGHES 1142,1442,1443 NETWORK SYSTEMS JVC 1170 MOTOROLA 0869 PHILIPS 1142,1442 PROSCAN 0392 RCA 1392 SAMSUNG 1442 SONY 0639,1640 STAR CHOICE 0869 TIVO 1142,1442,1443 ZENITH 1810 VCR Brand CODES A-MARK 0037,0240,0000 0278,0046 ABS BS 1972 ACCURIAN 0000		1142,1076,0099 1392,1442,1443 1640
DISH PRO 1505,0775,1170 ECHOSTAR 1505,0775,1170 EXPRESSVU 0775 HUGHES 1142,1442,1443 NETWORK 392 SYSTEMS 1170 MOTOROLA 0869 PHILIPS 1142,1442,1442 PROSCAN 0392 RCA 1392 SAMSUNG 1442 SONY 0639,1640 STAR CHOICE 0869 TIVO 1142,1442,1443 ZENITH 1810 VCR Brand CODES A-MARK 0037,0240,0000 0278,0046 ABS ACCURIAN 0000	DISH NETWORK	
EXPRESSVU 0775 HUGHES 1142,1442,1443 NETWORK SYSTEMS JVC 1170 MOTOROLA 0869 PHILIPS 1142,1442 PROSCAN 0392 RCA 1392 SAMSUNG 1442 SONY 0639,1640 STAR CHOICE 0869 TIVO 1142,1442,1443 ZENITH 1810 VCR Brand CODES A-MARK 0037,0240,0000 0278,0046 ABS 1972 ACCURIAN 0000	SYSTEM DISH PRO	1505,0775
NETWORK SYSTEMS 1170 JVC 1170 MOTOROLA 0869 PHILIPS 1142,1442 PROSCAN 0392 RCA 1392 SAMSUNG 1442 SONY 0639,1640 STAR CHOICE 0869 TIVO 1142,1442,1443 ZENITH 1810 VCR Brand CODES A-MARK 0037,0240,0000 0278,0046 ABS ACURIAN 0000	EXPRESSVU	0775
MOTOROLA 0869 PHILIPS 1142,1142 PROSCAN 0392 RCA 1392 SAMSUNG 1442 SONY 0639,1640 STAR CHOICE 0869 TIVO 1142,1442,1443 ZENITH 1810 VCR Brand CODES A-MARK 0037,0240,0000 0278,0046 BS ABS 1972 ACCURIAN 0000	NETWORK SYSTEMS	, ,
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SONY 0639,1640 STAR CHOICE 0869 TIVO 1142,1442,1443 ZENITH 1810 VCR Brand CODES A-MARK 0037,0240,0000 0278,0046 1972 ABS 1972 ACCURIAN 0000	PROSCAN RCA	0392 1392
TIVO 1142,1442,1443 ZENITH 1810 VCR Brand CODES A-MARK 0037,0240,0000 0278,0046 0278,0046 ABS 1972 ACCURIAN 0000	SONY	0639,1640
A-MARK 0037,0240,0000 0278,0046 ABS 1972 ACCURIAN 0000	TIVO	1142,1442,1443
ABS 1972 ACCURIAN 0000		CODES 0037.0240.0000
ACCURIAN 0000 ADMIRAL 0060,0048,0039 0047,0104,0209 0065,0479	ABS	0278,0046 1972
0065,0479		0000 0060,0048,0039 0047 0104 0200
		0065,0479

ADVENTURA ADVSON AIKO AIKO AKAI ALBA ALERWARE ALLEGRO AMERICA ACTION AMERICA ACTION AMERICA ACTION AMSTRAD ASHA ASTRA AJDIOVOX	00 00 02 00 02 19 00 02 00 00 00 00 00
AVIS BEAUMARK BELL & HOWELL BROKSONIC	00 02 00 00 04 01 00
CALIX CANDLE CANON CAPEHART CARRERA CARVER CCE CINERAL CITIZEN	00 00 00 02 00 00 02 00 00 00 00 00
CLASSIC COLORTYME COLT CRAIG	04 00 02 00 00
CRITERION CROSLEY CROWN CURTIS MATHES	00 00 00 00 00 00 02
CYBERNEX CYBERPOWER DAEWOO DAYTRON	02 02 19 00 00 00
DAYTRON DELL DENON DERWENT DIRECTV DUAL DURABRAND DYNATECH ELECTROPHONIC	19 00 07 00 00 02 00 00
ELECTROPHONIC EMERALD EMEREX EMERSON	01 00 00 00 02 04
FISHER FUJI FUJITSU FUNAI	00 01 00 00 00 00 02
GARRARD GATEWAY GE GEMINI	00 19 00 02 00
GENEXXA GO VIDEO GOLDSTAR GOODMANS	00 02 06 00 00 00
GRADIENTE GRANADA GRUNDIG HARLEY DAVISON HARMAN/ KARDON	00
HARVARD HARWOOD HEADQUARTER HEWLETT PACKARD HI-Q	00 00 19 00
HITACHI HOWARD COMPUTERS HP	00 00 00 19 19
HP HUGHES NETWORK SYSTEMS HUMAX HUSH HYTEK	00 07 19 00
IBUYPOWER	19

037,0240,0000 772 778 037,0000,0124 041,0175 029,0072,0278 072 035,0081 000 240 035,0081 000 000,0072 240 035,0048,0039 000,0104,0046 479 036,0048,0039 000,0104,0046 479 002,0479 037,0038 035,0081 002,0479 037,0038 035,0081 002,0479 037,0038 035,0081 002,0479 037,0038 035,0081 000,0072 037,0047,0240 000,0072 037,0047,0240 072,0278 278 000,0072 000,0000 72 000,00072 000,00072 000,0000 72 000,00072 000,00072 000,0000 72 000,00072 000,0000 72 000,0001 28,0000 72 000,0001 28,0000 72 000,0000 72 000,0001 72 000,00000 72 000,00000 72 000,00000 72 000,000000 72 000,000000000000000000000000000000000	KENWOOD KLH KODAK KTV LG LINKSYS LLOYD'S LOEWE LOGIK LUMATRON LUXOR LXI MAGNASOO MAGNAVOO MAGNIN MARANTZ MARTA MATSUI MATSUSHI MATSUSHI MATSUSHI MEDIA CEN PC MEI MEMOREX
772 772 137,0045,0278 146 137,0278 772 181,0042 141 739 100 139,0038 240,0000	ME1Z MGA MGN TECHNOLO MICROSOF MIDLAND MINDLAND MINOLTA MITSUBISH
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000 081,0042 081 081 081 000 081,0038	PENNEY
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042,0739 739,1797,1988 972 047,0000,0072 972	PROSIDIAN PROFITRO PROSCAN PROTEC PROTECH PULSAR PULSER QUARTER

	0035	QUARTZ	(
	0240,0041	QUASAR	
	0240 0067,0041	RADIOSHACK	(
D	0067,0041 0067,0041,1162 0037,0278 0067,0041,0038		1
J	0040	RADIX RANDEX	
	0072 0035,0037	RCA	(
	0000 0037,0240,0038		(
	1037 1972	REALISTIC	(
	0240,0000,0072 0038		(
	0081 0240,0000,0072	REPLAY TV	(
N	0278 0046	RICAVISION RUNCO	(
	0037,0000,0042 0067	SAMSUNG	(
RONIC	0240 0037,0240,0000	SAMTRON	(
Х	0072,0278 0035,0037,0048	SANKY SANSUI	(
	0039,0081,0240 0000,0563,0618		(
	1593 0240	SANYO	(
	0035,0081,0038 0037	SCOTT	(
ITA	0037,0209 0035,0162,0081	SEARS	(
NTER	1162 1972	02,	(
	0035		
K	0035,0162,0037 0048,0039,0047		(
	0240,0000,0104 0209,0072,0278	SHARP	(
	0046,0479,1037 1162	SHINTOM	(
	0037 0060,0240,0043	SHOGUN	(
OGY	0240	SIEMENS SIGNATURE	(
FT	1972 0240		(
	1972 0042,0105	SINGER SONIC BLUE SONOGRAPHE	(
HI	0060,0048,0047 0000,0042,0067	SONOGRAPHE	(
Δ	0043,0041 0035,0048		(
ALKER	0072 0240,0000,0072	SOUNDMASTER	(
н	0000 0039,0000,0072	STACK 9 STS	(
	0240,0104 0104,0067,0041	SV2000 SVA	
н	0038 0072	SYLVANIA	(
	0037,0278 0037,0278	SYMPHONIC	(
EDIA	0240 1972	SYSTEMAX TAGAR SYSTEMS	
TE	0240 1972	TANDY TASHIKO	(
	0035,0162,0104 0222	TATUNG	(
	1062,0035,0162 0037,0048,0047	TEAC TECHNICS	
	0240,0000,0104 0432,1048,1162		(
	0184,0240,0000 0104,0121,0209	TELECORDER TELEFUNKEN	(
	0002,0278,0479	TEVION THOMAS THOMSON	(
IC	1062,0035,0162 0000,0225,0614	TISONIC	(
	0616,1162 0035,0162,0037	TIVO	(
	0047,0081,0240	TMK TNIX	(
	0000,0042,0067 0038 0042,0065,0105	TOCOM TOSHIBA	(
	0042,0065,0105 0035,0081,0000		(
	0209,0479 0035,0162,0048	TOSONIC TOTEVISION TOUCH	(
	0081,0045,0000 0209,0616,0618	TOUCH TRIX ULTRA	
	0739,1081,1181 0037	UNITECH	(
	0162,0081,0042 0067,1337	VECTOR VECTOR	
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	00	4	0.	0	0	0	0	,C	0	7	2
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Remote Control Codes

AMPHION

ASPIRE

MEDIA WORKS AMW

APEX DIGITAL ARRGO

WARDS	0060 0035 0037
WANDS	0060,0035,0037 0048,0047,0081
	0033,0240,0045
	0000,0042,0043 0041,0072,0038
	0479,0065,0046
WHITE	0000,0209,0072 0278.0479
WORLD	0209,0002,0479
XR-100	0035,0240,0000
YAMAHA	0072 0041,0038
ZENITH	0037,0039,0033 0000,0209,0041
	0000,0209,0041
ZT GROUP	0278,0479,1139 1972
PVR Brand	CODES 1972
ABS ALIENWARE	1972
CYBERPOWER	1972
DELL	1972
DIRECTV	0739
GATEWAY	1972
GO VIDEO	0614 1972
HEWLETT PACKARD HOWARD	1972
COMPUTERS	1972
HUGHES	0739
NETWORK	
SYSTEMS HUMAX	0739,1797,1988
HUSH	1972
IBUYPOWER	192
LINKSYS	1972
MEDIA CENTER	1972
PC MICROSOFT	1972
MIND	1972
NIVEUS MEDIA	1972
NORTHGATE	1972
PANASONIC	0614,0616
PHILIPS PIONEER	0618,0739 1337
RCA	0880
REPLAY TV	0614.0616
SAMSUNG	0614,0616 0739
SONIC BLUE	0614,0616
SONY	0636,1972
STACK 9	1972
SYSTEMAX	1972
TAGAR	1972
SYSTEMS TIVO	0618,0636,0739
1100	1337
TOSHIBA	1008,1972,1988
TOUCH	1972
VIEWSONIC VOODOO	1972 1972
ZT GROUP	1972
DBS/PVR	CODES
СОМВО	
DIRECTV HUGHES	0739 0739
NETWORK	
SYSTEMS	0730
PHILIPS SAMSUNG	0739 0739
TIVO	0739
DVD/PVR	CODES
COMBO HUMAX	1707 1088
PIONEER	1797,1988 1337
RCA	0880
SYLVANIA TIVO	0000 1337
TOSHIBA	1008,1988
DVD Brand	CODES
3D LAB ACCURIAN	0503,0539 0675,1416
ACOUSTIC	0730
SOLUTIONS	1004
ADCOM AFREEY	1094 0698
AIWA AKAI	0641
	0695,0705,0770 1089

0869

ALBA ALCO ALLEGRO

DIGITAL	1168
AUDIOVOX	0790
AWA	0730
B & K BBK	0655,0662
BEL CANTO	1224 1571
DESIGN BLUE PARADE	1071
	0571
BLUE SKY BROKSONIC	0695 0695
CALIFORNIA	0490
AUDIO LABS	
CELESTIAL CENTREX	1020
CINEA	0672 0831
CINEVISION	0876,0833,0869
CITIZEN	1003,0695,1277
	1587,2116
CLAIRTONE COBY	0571 0778,0852,1077
	1086,1107,1165
0.0.1.0	1177,1351
CRAIG CREATIVE	0831
CURTIS	0503,0539 1087
MATHES	1001
CYBERHOME	0816,0874,1023
	1024,1129,1502 1537
CYTRON	0705
DAEWOO	0784,0705,0770
	0833,0869,1169
DANSAI	1172,1234,1242 0770
DAYTEK	0872
DECCA	0770
DENON	0490,0634
DENVER DIGITREX	0778
DISNEY	0672 0675,1270
DI VIDO	0705
DUAL	0675
DURABRAND	1127
DVD2000 EMERSON	0521 1003,2116
ENTERPRISE	0591,0675
ENTIVO	0503,0539
ENZER	0770
FISHER	
FUNA	1919
FUNAI GATEWAY	0675
FUNAI GATEWAY GE	0675 1073,1077,1158
GATEWAY	0675 1073,1077,1158 0522,0815 0573,0744,0715
GATEWAY GE	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833
GATEWAY GE	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833 0869,1044,1075
GATEWAY GE GO VIDEO	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833
GATEWAY GE GO VIDEO	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869
GATEWAY GE GO VIDEO GOLDSTAR GOODMANS	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0790
GATEWAY GE GO VIDEO	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869
GATEWAY GE GO VIDEO GOLDSTAR GOODMANS GPX	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0790 0769
GATEWAY GE GO VIDEO GOLDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0790 0769 0490
GATEWAY GE GO VIDEO GOLDSTAR GOODMANS GPX GRADIENTE GRUNDIG	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0790 0769 0490 0539,0705 0582,0702
GATEWAY GE GO VIDEO GOLDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/ KARDON HELLO KITTY HITACHI	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0790 0769 0490 0539,0705 0582,0702
GATEWAY GE GO VIDEO GOLDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/ KARDON HELLO KITTY HITACHI HITEKER INSIGNIA	0675 1073,1077,1158 0522,0815 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0790 0769 0490 0539,0705 0582,0702 08831 0573,0664,1919 0672 2095
GATEWAY GE GO VIDEO GOLDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/ KARDON HELLO KITTY HITACHI HITEKER INSIGNIA INTEGRA	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0769 0769 0490 0539,0705 0582,0702 0831 0573,0664,1919 0672 2095 0571,0627
GATEWAY GE GO VIDEO GOLDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/ KARDON HELLO KITTY HITACHI HITEKER INSIGNIA INTEGRA IRT JBL	0675 1073,1077,1158 0522,0815 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0790 0769 0490 0539,0705 0532,0705 0582,0702 0831 0573,0664,1919 0672 2095 0571,0627 0783
GATEWAY GE GO VIDEO GOUDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/ KARDON HELLO KITTY HITACHI HITEKER INSIGNIA INTEGRA IRT	0675 1073,1077,1158 0522,0815 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0790 0769 0490 0539,0705 05582,0702 0831 0573,0664,1919 0672 2095 0571,0627 0783
GATEWAY GE GO VIDEO GO VIDEO GOLDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/ KARDON HITACHI HITACHI HITEKER INSIGNIA INTEGRA IRT JBL JMB	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0769 0490 0539,0705 0582,0702 0831 0573,0664,1919 0573,0664,1919 0577,0627 0702 0695 1423 0558,0623,0867
GATEWAY GE GO VIDEO GO VIDEO GOLDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/ KARDON HITACHI HITACHI HITEKER INSIGNIA INTEGRA IRT JBL JMB JSI JVC	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0769 0490 0539,0705 0582,0702 0831 0573,0664,1919 0672 2095 0571,0627 0783 0702 0695 1423 0558,0623,0867 1164
GATEWAY GE GO VIDEO GOLDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/ KARDON HELLO KITTY HITACHI HITEKER INSIGNIA INTEGRA INTEGRA INTEGRA INTEGRA JSL JVC JWIN KAWASAKI	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0769 0769 0490 0539,0705 0582,0702 0831 0573,0664,1919 0672 2095 0571,0627 0782 0702 0558,0662,0867 1423 0702 0558,0623,0867 1164 1049,1051 0790
GATEWAY GE GO VIDEO GOLDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/ KARDON HELLO KITTY HITACHI HITEKER INSIGNIA INTEGRA INTEGRA INTEGRA INTEGRA JSL JVC JWIN KAWASAKI KENWOOD KI H	0675 1073,1077,1158 0522,0815 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0790 0769 0490 0539,0705 0582,0702 0831 0573,0664,1919 0672 2095 0571,0627 0783 0702 0695 1423 0558,0623,0867 1164 1049,1051 0790 0490,0534
GATEWAY GE GO VIDEO GOUDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/ KARDON HITACHI HITACHI HITACHI HITEKER INSIGNIA INTEGRA INT JBL JMB JSI JVC JWIN KAWASAKI KENWOOD KLH KLOSS	0675 1073,1077,1158 0522,0815 0741,0783,0833 0869,1044,1075 1099,1144,1105 1099,1144,1105 1099,1144,1105 0741,0869 0790 0769 0490 0539,0705 0582,0702 0831 0573,0664,1919 0672 2095 0571,0627 0783 0702 0695 1423 0558,0623,0867 1164 1049,1051 0790 0490,0534 07533
GATEWAY GE GO VIDEO GOUDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/ KARDON HELLO KITTY HITACHI HITEKER INSIGNIA INTEGRA INTEGRA INT JBL JMB JSI JVC JWIN KAWASAKI KENWOOD KLH KLOSS KONKA KOSS	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0769 0490 0539,0705 0582,0702 0831 0573,0664,1919 0672 2095 0573,0664,1919 0672 2095 0573,0664,1919 0672 2095 0573,06627 0702 0695 1423 0558,0623,0867 1164 1049,1051 0790 0490,0534 0790,1020,1149 0533 0721 0721
GATEWAY GE GO VIDEO GOLDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/ KARDON HELLO KITTY HITACHI HITEKER INSIGNIA INTEGRA IRT JBL JMB JSI JVC JWIN KAWASAKI KENWOOD KLH KENWOOD KLH KLOSS KONKA KOSS LASONIC	0675 1073,1077,1158 0522,0815 0741,0783,0833 0869,1044,1075 1099,1144,1158 1099,1144,1158 1304,1730 0741,0869 0790 0769 0490 0539,0705 0582,0702 0831 0573,0664,1919 0672 2095 0571,0627 0783 0702 0695 1423 0558,0623,0867 1164 1049,1051 0790 0490,0120,1149 0533 0711,0721 0769,1061,1423
GATEWAY GE GO VIDEO GOUDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/ KARDON HELLO KITTY HITACHI HITEKER INSIGNIA INTEGRA IRT JBL JMB JSI JVC JWIN KAWASAKI KENWOOD KLH KLOSS KONKA KOSS LASONIC LESONIC LESONIC	0675 1073,1077,1158 0522,0815 0573,0744,0715 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 0741,0869 0769 0490 0539,0705 0582,0702 0831 0573,0664,1919 0672 2095 0571,0627 0783 0702 0695 1423 0558,0623,0867 1164 1049,1051 0790 0490,0534 0790 0490,0534 0790,1149 0533 0711,0721 0769,1061,11423 0627 1533
GATEWAY GE GO VIDEO GOLDSTAR GOODMANS GPX GRADIENTE GRUNDIG HARMAN/ KARDON HELLO KITTY HITACHI HITEKER INSIGNIA INTEGRA IRT JBL JMB JSI JVC JWIN KAWASAKI KENWOOD KLH KLOSS KONKA KOSS LASONIC LECSON	0675 1073,1077,1158 0522,0815 0741,0783,0833 0869,1044,1075 1099,1144,1158 1099,1144,1158 1304,1730 0741,0869 0790 0769 0490 0539,0705 0582,0702 0831 0573,0664,1919 0672 2095 0571,0627 0783 0702 0695 1423 0558,0623,0867 1164 1049,1051 0790 0490,0120,1149 0533 0711,0721 0769,1061,1423

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	1056,1061 1023	MAGNAVOX
	1168	MALATA MARANTZ
	0790	MCINTOSH
	0730 0655,0662	MEMOREX
	1224 1571	MICROSOFT MINATO
	0571	MITSUBISHI MUSTEK
	0695	MYRAD NAD
	0695 0490	NAIKO NEC
	1020	NEXXTECH NINTAUS
	0672 0831	NORCENT
	0876,0833,0869 1003,0695,1277	ONKYO OPPO
	1587,2116 0571	OPTIMUS PALSONIC
	0778,0852,1077	PANASONIC
	1086,1107,1165 1177,1351	PHILCO PHILIPS
	0831 0503,0539	
	1087	PIANODISC PIONEER
	0816,0874,1023 1024,1129,1502	
	1537 0705	POLK AUDIO PORTLAND
	0784,0705,0770	PRESIDIAN
	0833,0869,1169 1172,1234,1242	PROCEED PROSCAN PROVISION
	0770 0872	RADIONETTE
	0770 0490,0634	RCA
	0778 0672	REALISTIC REOC
	0675,1270	RIO RJTECH ROTEL
	0705 0675	SAMPO SAMSUNG
	1127 0521	
	1003,2116 0591,0675	SANSUI SANYO
	0503,0539	SCHNEIDER
	0770 1919	SCHWAIGER SENSORY SCIEN
	0675 1073,1077,1158	SHARP
	0522,0815 0573,0744,0715	SHERWOOD
	0741,0783,0833 0869,1044,1075	SHINSONIC SLIM ART SM ELECTRONIC
	1099,1144,1158 1304,1730	SONIC BLUE
	0741,0869	SONY
	0790 0769	SYLVANIA
	0490 0539,0705	SYMPHONIC
	0582,0702	TATUNG TEAC
	0831 0573,0664,1919 0672	TECHNICS TECHNIKA
	0672 2095 0571,0627 0783	TECHSONIC THETA DIGITAL
	0783 0702	THOMSON TIVO
	0695 1423	TOSHIBA
	0558,0623,0867 1164	TREDEX
	1049,1051 0790	UNIMAX
	0490,0534 0790,1020,1149 0533	UNITED UNIVERSUM
	0711,0721 0769,1061,1423	URBAN CONCER
	0627 1533	VENTURER VIZIO
	1127	

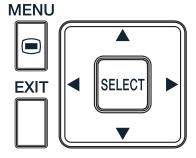
	4050 4450 4440
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	1521,0521 0730
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	0785,0869 1402
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	1003,0872,1107
	1265 0503.0627.1769
	0503,0627,1769 0575,1224,1525
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	0571 0672,0852
	0503,0490,0571
	0703,1641,1762
	0675 0503,0539,0646
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1 ICEPTS	0591 0503,0539
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6	VOCOPRO	1360
-	XBOX	0522,2083
	YAMAHA	0490,0539,0545
16	YAMAKAWA	0497 0872
06	ZENITH	0503,0591,0741
16	ZEUS	0869 0784
)6	ZOECE	1265
70	BLU-RAY DISC	CODES
	LG	0741 1641
	PANASONIC PHILIPS	2084
	PIONEER	0142
	SAMSUNG SONY	0199 1516
	DVD/PVR COMBO	CODES
)7	GO VIDEO	1730
69 25	PANASONIC PHILIPS	0490 1340
25	PIONEER	0631
	RCA	0522
71	SHARP SONY	1256 1033,1070,1536
62	SYLVANIA	0675
16	TOSHIBA	1503
40 34	HD-DVD	CODES
12	LG MICROSOFT	0741 2083
	ONKYO	1769
36	RCA	1769
	TOSHIBA XBOX	1769 2083
	AUDIO RECEIVER Brand	CODES
	AIWA	1405,0189,0121 1243,1388,1641
90	ALCO ANAM	1390 1609
	APEX DIGITAL	1774
	ARCAM AUDIOTRONIC	1189 1189
	AUDIOVOX B & K	1390 0820,0840
	BOSE BRIX	0639,1253,1933 1602
14 14	CAIRN	0189
	CARVER CURTIS MATHES	1189,0189,0121 0014
73	DELPHI DENON	1414 1360,0121,1142
	ELECTROHOME	1306 2026
	GRUNDIG	0189
52	HARMAN/ KARDON	0189,0891,1304 1306
13	HITACHI INSIGNIA	0228
	INTEGRA	1030,2169 0842,1298,1320
	JBL	1805 1306
33	JVC	1058,1374,1495 1811
64	KAWASAKI	1390
31	KENWOOD KLH	1570,1569 1390,1428
	KOSS LG	1497 2197
	LINN LIQUID VIDEO	0189 1497
	MAGNAVOX	1189,1269,0189
	MARANTZ	1266,1514 1189,1269,0189
	MICROMEGA	0891 1189,0189
	MITSUBISHI	1393
	MYRAD NAKAMICHI	1189 0097,1555 0842,1298,1320
39	ONKYO	0842,1298,1320 1805
)3	OPTIMUS	1023,0014,0121
	ORITRON	0670 1497
	PANASONIC	1308,1518,1288
	D	1316,1548,1633 1763,1764,2967 1189,1269,0189
	PHILIPS	1189,1269,0189 0891,1266
	PIONEER	1023,0014,0630
	POLK AUDIO	1384,1935 0189,1414
	RADIO SHACK	1609

	RCA REALISTIC REVOX SAMSUNG SANGEAN SANSUI SHERWOOD SIRIUS SONY	1023,1609,1390 1609,0121 0189 1304,1500,1868 2165 1189,0189 1913 1602,1811 1058,1441,1258 1759,1622,1406
	SOUNDESIGN STEREOPHONICS TEAC TECHNICS THORENS TOSHIBA VENTURER WARDS XM YAMAHA	1858 0670 1023 1390 1308,1518,1633 1189 0842,1788 1390 0189,0014 1406,1414 1023,0176,1176 1276,1331,1815 2061
	AUDIO	CODES
	AMPI IFIER Brand	
	AMPLIFIER Brand ADCOM BOSE	0577,1100
	ADCOM BOSE	0674
	ADCOM	
	ADCOM BOSE CARVER CARY AUDIO DESIGN	0674 0892 1879
	ADCOM BOSE CARVER CARY AUDIO DESIGN CLASSE	0674 0892 1879 1461
	ADCOM BOSE CARVER CARY AUDIO DESIGN CLASSE FLEXTRONICS	0674 0892 1879 1461 1879
	ADCOM BOSE CARVER CARY AUDIO DESIGN CLASSE	0674 0892 1879 1461
8	ADCOM BOSE CARVER CARY AUDIO DESIGN CLASSE FLEXTRONICS HALCRO	0674 0892 1879 1461 1879 1934
	ADCOM BOSE CARVER CARY AUDIO DESIGN CLASSE FLEXTRONICS HALCRO HARMAN/	0674 0892 1879 1461 1879 1934

On-Screen Display

- 1. Press MENU on the remote control to display the different features on your Hitachi LCD TV.
- 2. Use the CURSOR PAD (buttons, ▲, ▼, ◀ and ►) and highlight a different feature of the On-Screen Display menu. Press the SELECT button to select.
- 3. Press EXIT on the remote control to quickly exit from 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 between 5 pictures modes; Dynamic, Standard, Movie, Custom and Game.
Contrast	Adjust picture contrast.
Brightness	Adjust picture brightness.
Color	Adjust color.
Tint	Adjust tint.
Sharpness	Adjust sharpness.
Color Temperature	Set this to High for less intense color with more blue, set to Medium for natural color and set to Standard for warm
	colors.
Noise Reduction	Reduces conspicuous noise in the picture.
Auto Movie	Select the 3:2 Pull down detection feature Auto/Off. For a film like picture.
Backlight	Adjust to increase or decrease the brightness of backlight.
Aspect Ratio	Choose the picture format aspect ratio.
Reel120	Adjust the movie motion to smooth or original.
Reset	Choose to Reset Video Settings to factory settings.

On-Screen Display

Audio

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



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

Setup

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

Channels

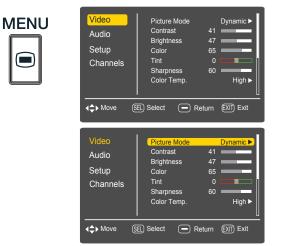
Selects the type of signal to be used Cable or Air. Source **Signal Strength** Access Signal Strength meter. New Channel Scan Set Auto Channel Scan. Add Channels to List Adds Channels to the List (Scanned channels remain the same until New Channel Scan is performed). **Channels List** Set Channel List.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



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

Video

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



Picture Mode

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

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

NOTE

For the PC input there are only two Picture modes available Standard and Custom. In this case only Custom can be changed to your desired conditions.

- Video Setting can be set to the user's preference in Game mode (Similar to Custom mode) with the exception of, Auto Movie setting.
- If you change any of the adjustments in the Dynamic, Standard and Movie modes, the name of the Custom option will change. For example 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 is that Custom mode will take the video adjustments of the mode where the change was made.

Other Video Menu Setting Adjustments

Use the CURSOR PAD \blacktriangle or \blacktriangledown 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 \triangleleft or \triangleright to adjust the function.
- 3. Press MENU to return to main menu.
- 4. Press EXIT to quit menu.

Contrast

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

Brightness

Use this function to change the overall brightness of the dark areas of the picture.

Color

Use this function to adjust the level of color in the picture.

Tint

Use this function to adjust flesh tones so they appear natural.

Sharpness

Use this function to adjust the amount of fine detail in the picture.

Color Temp.

Set this to High for cooler color with more blue, set to Medium for a more natural color or set to Standard for accurate color.

Noise Reduction

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

Auto Movie

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

Backlight

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

Aspect Ratio

Use this function to select the Picture Format Aspect Ratio.

Video	
Audio	Sharpness 60
	Color Temp. High ►
Setup	Noise Reduction Mid ►
Channels	Auto Movie Auto ► Backlight 30
	Aspect Ratio Auto
∢_ ► Move	SEL) Select (-) Return (EXIT) Exit
- WIUVE	

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 53.

Input Signal	Display Screen	Display Aspect Recomended	To display suitable screen as follows.	
When Watching S	tandard Definition F	victures:		
969		4:3	Displays 4:3 programs in there original aspect ratio with bars to the left and right of the image.	
(4:3 Signal) 16 : 9 Expands a 4:3 aspect ra	Expands a 4:3 aspect ratio program to fill the widescreen 16:9 screen			
(Vista)	(Vista)		Use this aspect mode to expand letterbox movies to fill the screen Note that some of the image may not be visible.	
O ○ O O O O (Cinema)	\bigcirc	Zoom 2	Use this aspect mode to fill the screen with very widescreen movies. Note that some of the image may not be viewable in this mode.	
When Watching H	When Watching High Definition Pictures:			
000		Plays a 16:9 image faithfully showing 95% of the size.		
(Signal 16:9)		Full	Should be: 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.	

Aspect Ratio reference

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.

Video Audio Setup Channels	Color Temp. Noise Reduction Auto Movie Backlight 30 Aspect Ratio Reel120 Motion Reset	High ► Mid ► Auto ► Auto ► Off ►
∢≑ ▶ Move (§	EL) Select 📃 Return	EXIT Exit

- 1. Use the CURSOR PAD \blacktriangle , \checkmark to the highlight Reel120 Motion function.
- 2. Press the CURSOR PAD ► to select Off, Low, Medium or High.

High: Use this setting for the maximum smooth motion effect.Mid: Use this setting for a moderate smooth motion effect.Low: Use this setting for a mild smooth motion effect.Off: Use this setting if there is noise with the High, Medium or Low settings.



Please note that the effect may no be immediately noticeable and the effect depends on the content of the movie.

Reset

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

Video Audio Setup Channels	Color Temp. Noise Reduction Auto Movie Backlight 30 Aspect Ratio Reel120 Motion Reset	High Mid Auto
∢⇔ Move	SEL Select Return	EXIT) Exit

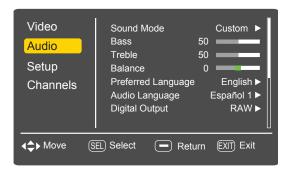
- 1. Use the CURSOR PAD \blacktriangle , \triangledown to the highlight functions.
- Press the SELECT button or CURSOR PAD ► to select Yes or No.
- 3. Press the SELECT button on the Yes option to execute the reset of the Video settings.

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

If RESET is selected in HDMI1, only HDMI1 will return to factory conditions.

Audio

Select Audio to adjust the sound to your preference.



Sound Mode

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

Audio Menu Settings Adjustment

- 1. Press the CURSOR PAD \blacktriangle or \triangledown to select menu item.
- 2. Press the CURSOR PAD ◀ or ► to adjust the function.
- 3. Press EXIT to quit the MENU, or select AUDIO to return to the main menu.



If Treble is selected you are adjusting treble. The additional menu items Bass and Balance can be selected and adjusted in the same manner.

Bass

This function controls the low frequency audio to the speakers.

Treble

This function controls the high frequency audio to the speakers.

Balance

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

Audio Source

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

Preferred Language

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

Audio Language

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

Digital Output

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

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

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

Internal Speakers

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

Perfect Volume

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

SRS TruSurround HD

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

- 1. Use CURSOR ► to select On/Off option.
 - *Off* : Turns off the surround sound effect.

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

Reset

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

Video <mark>Audio</mark> Setup Channels	Preferred Language Audio Language Digital Output Internal Speakers Perfect Volume SRSTruSurround HD Reset	English► Español 1 ► RAW ► On► On► On►
∢≑ ▶ Move §	EL Select Return	EXIT Exit

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

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

If RESET is selected in HDMI1, only HDMI1 will return to factory conditions.

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



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

Menu Language

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

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

Time

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



- 1. Use the CURSOR PAD ▲, ▼, ►, to highlight and setup the TIME settings.
- If you observe daylight savings, use the CURSOR PAD to highlight DAYLIGHT SAVINGS and press the ► button to activate it. This can only be changed if the Time Mode is set to Auto.
- Use the CURSOR PAD to highlight and adjust the CURRENT TIME (hour and minute), AM or PM, MONTH, DAY, and YEAR.
- Press the SELECT button to set the TIME.
- 5. Press EXIT to quit the menu or the Menu key to return to the previous menu.
 - When AUTO is set DAYLIGHT SAVINGS can be set, the TV will automatically calculate the clock adjustment for Daylight Saving.
 - The TV counts electrical pulses for regulating the TIMERS. When the power cord is unplugged quickly, the clock is stopped momentarily and the TIME indication will become slow.
 - Year,Month,Date and Time can be changed only if the Time Mode is set to Manual

Set Sleep Timer

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

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

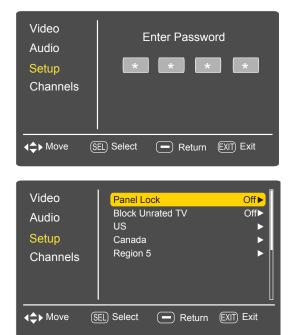
Set Password

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

Parental Controls

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

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



Panel Lock

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

Block Unrated TV

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

US

This option will block TV and Movie Ratings in the USA to prevent viewing of any content that you feel may be inappropriate (see page 34).

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 34-35).

Motion	Diatura	Datinga	Tabla
wotion	Picture	Ratings	lable

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

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.		
	antasy/Cartoon Violence V: Violence S: Sexual Situation L: Adult Language D: Sexually Suggestive Dialogue		

• If you Block TV-14D, you will still permit TV-MA programs; If you block TV-14V, you will automatically block TV-MAV programs, but you will still permit TV-MALS programs. This means that the TV will block violence in TV-14 and higher (TV-MA), but not language and sex.

• TV program ratings are dependent on the broadcaster. If the program is not rated, the TV will not block it.

Canadian Ratings English Table

С	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. Parental Guider some content inappropriate for unsupervised viewing by children ages 8-13. Violence Guidelines: Depictions conflict and/or aggression will be limited and moderate; may include physical, fantasy, or supernatural violence. Other Contenes: 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 strong cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Violence Guidelines: May contain inten 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 Chart				
G	General - Programming intended for audiences of all ages. Contains no violence, or the violence content is minimal or is depicted appropriately with humor or caricature or in an unrealistic manner.			
8 ans+	8 + General - Not recommended for young children - Programming intended for a broad audience but contains ligh occasional violence that could disturb young children. Viewing with an adult is therefore recommended for young child (under the age of 8) who cannot differentiate between real and imaginary portrayals.			
13 ans+	s+ Programming may not be suitable for children under the age of 13 - Contains either a few violent scenes or one or m 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

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

Region 5 Alternate Ratings (Example Only)

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

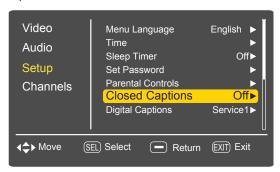
NOTES

• In order to set the Region 5 Ratings the ATSC Digital channel received must include Region 5 Ratings data. To see if the channel has Region 5 Ratings, press the INFO key on the R/C.

• Once the TV has received Region 5 Ratings data, the Region 5 option in the Parental Controls menu will become available and display the data.

Closed Captions

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



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

Closed Captions:

ON/OFF will turn the display CC on or off. With Mute will turn the display CC on when Mute is on.

Digital Captions

Set captions for digital programs and set available language.

Digital Captions Options

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



• 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.
- Closed Captions and Digital Captions availability and content depends on the broadcaster. Closed Caption are available when the Closed Caption icon is displayed on screen.
- Digital Captions language will not be available (grayed out) when using analog channels.

Analog Captions:

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

CC1,CC2, etc. : These are for the program you are viewing. **TEXT1, etc.** : These are for additional information such as news reports or a TV program guide. This information covers the entire screen and viewing the TV program is not possible. Text may not be available with every **CC** program.

Energy Options

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

Video Audio Setup Channels	Set Password Parental Controls Closed Captions Digital Captions Digital Captions Options Analog Captions Energy Options	Off Service 1 > CC1 >
∢≑ ▶ Move (§	EL Select Return	EXIT) Exit
Video Audio <mark>Setup</mark> Channels	Picture Energy Saving Auto TV off	Min► On►
∢\$ ▶ Move	EL) Select 📃 Return	EXIT) Exit

- 1. Press the **CURSOR PAD** \blacktriangle or \checkmark to highlight Energy Options.
- 2. Press the **CURSOR PAD** ► to select your choice.

Picture Energy Saving

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

Auto TV Off

This function turns Off the TV when no remote control signal is detected for 3 hours to save energy. Please choose On or Off to set this feature.

Transparency

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

Video Audio <mark>Setup</mark> Channels	Energy Options Transparency 0 HDMI - CEC Input Labels Component Options RGB Options Reset AV & Setup	
∢ ⇔► Move	EL Select 📃 Return	EXIT) Exit

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

Setup

HDMI-CEC

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



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

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

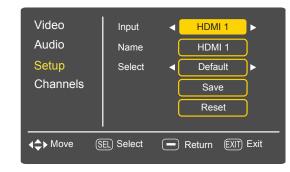
NOTE Not all devices with an HDMI connection have the CEC feature. Consult the instruction manuals for the device you are trying to control to confirm whether or not CEC is available.

Input Labels

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

Video Audio <mark>Setup</mark> Channels	Energy Options Transparency 0 HDMI - CEC Input Labels Component Options RGB Options Reset AV & Setup	* * *
∢≑ ▶ Move S	EL Select 💻 Return 🖻	KIT) Exit

- 1. Press the **CURSOR PAD** \blacktriangle or \triangledown to highlight the Inputs labels.
- 2. Press the **CURSOR PAD** ► to select your choices.



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

Component Options

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

Video Audio Setup Channels	Energy Options Transparency 0 HDMI - CEC Input Labels Component Options RGB Options Reset AV & Setup	
∢⇔ Move (SEL) Select 📃 Return 🖾	Exit

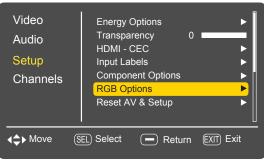
- 1. Press the **CURSOR PAD** ▲ or ▼ to highlight Component Options.
- 2. Press the **CURSOR PAD** ► to select your choice.

There are two options for the Component inputs: **Phase**: Use this feature to fine-tune the display to perfectly synchronize with the video signal source. **Reset**: Return to the original condition for Component inputs.

Setup

RGB Options

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



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

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

Video Audio Setup Channels	H-Position50V-Position50Clock50Phase50Auto Adjust▶Reset▶
∢⇔ Move	SEL Select Return EXIT Exit

H-Position

Adjusts the display position horizontally.

V-Position

Adjusts the display position vertically.

Clock

Minimizes vertical stripes on the screen.

Phase

Minimizes the blurring of letters and stripes on horizontal row.

Auto Adjust

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

Reset

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

Reset AV & Setup

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

Video Audio <mark>Setup</mark> Channels	Energy Options Transparency 0 H HDMI - CEC Input Labels Component Options RGB Options Reset AV & Setup	
∢ ⇔ Move	EL) Select – Return	EXIT) Exit

Channels

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



- 1. Press CURSOR PAD \blacktriangle , \triangledown to highlight functions.
- 2. Press the SELECT button or CURSOR PAD ► to select.

Video	Source	Air 🕨
Audio	Signal Strength New Channel Scan	►
Setup	Add Channels to List	►
Channels	Channel List	►
	Channel Labels	
	Favorite Channels	
∢⇔ Move (§	EL Select 🗕 Return 🖲	EXIT) Exit

Source

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

Signal Strength

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



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.

Video Audio	Source Signal Strength	Air ►
Audio	New Channel Scan	
Setup	Add Channels to List	•
Channels	Channel List	►
	Channel Labels	▶
	Favorite Channels	
∢⇔ Move (SEL) Select Return	EXIT) Exit

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

- - Use the CURSOR PAD to select the Add Channels to List.

Add Channels to List

Video

Audio

Setup

<**≜**▶ Move

Channels

additional channels..

- 2. Press the SELECT button to start scanning.
- 3. Press the EXIT button to return to normal viewing.

(SEL) Select

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

This function allows you to add channels to the channel memory.

Sometimes adjusting the antenna direction will allow reception of

Searching, Please wait ...

Analog Channels Found

Digital Channels Found

Return

10%

Channel 3

(EXIT) Exit

Searching Digital CH

Channel List

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

Video	Channel List	
Audio	Ch 3-0	Skip
	Ch 5-0	View
Setup	Ch 6-1 XETV-DT	View
Channels	Ch 10-0	View
	Ch 15-0	View
	Ch 31-1 KNSD-HD	View
∢ ⇔ Move (SEL) Select Return	EXIT) Exit

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

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

NOTE

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

Channels

Channel Labels

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



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

Video Audio Setup Channels		 4 6-1 XETV-DT Save Reset
∢⇒ Move	I (SEL) Select	Return EXIT Exit

Favorite Channels

This function allows you to manage your Favorite Channels.

Video Audio Setup Channels	Source Signal Strength New Channel Scan Add Channels to List Channel List Channel Labels Favorite Channels	Air ► ► ► ►
∢⇔ ⊁ Move (§	EL Select 📃 Return	EXIT Exit

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

Video	Favorite CH List 1/50
Audio	Ch 3-0 ✓ Ch 5-0
Setup Channels	Ch 6-1 XETV-DT Ch 10-0
Chameis	Ch 15-0 Ch 31-1 KNSD-HD
∢ ⇔ Move (§	EL Select Return EXIT Exit

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

Favorite CH List
0. Ch 3-0
1. Ch 6-1 XETV-DT
+ Move SEL Select EXIT Exit

IMPORTANT NOTICE

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

Please review this Operating Guide for further information regarding such connections.

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

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

Equipment Care and Troubleshooting

DO

Dust the screen and cabinet with a soft cloth.

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

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

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

DO NOT

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

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

Avoid repeatedly touching the screen.

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

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

When the batteries run down, remote control operation will become erratic or become unresponsive. Replace the old batteries with two new "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.

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

TV will not turn ON

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

When the Following Messages Appear on the Screen

Message	Condition / Action	
No Signal	 The unit cannot detect any signals from any input terminals or the TV channel does not show picture. Check if the cable is connected correctly and firmly. Check if the power of any external equipment is ON. Check if the input selection matches the connection terminal. This message will be displayed for 15 minutes then the TV will turn Off. 	

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

Troubleshooting

Symptom and Checklist

SYMPTOM	CHECKLIST	PAGES
No picture - no sound	 Check the Indicating lamp status (Off, Red, Blue). Check the connection of the power cord and/or other cables. Check if the power of the unit or external equipment is ON. Check if the correct Video input is selected. Check if the unit is in "Standby mode". Adjust the values in "Video menu" and "Audio menu". 	9, 12, 14~17 30~32
Multiple images-normal sound	Check the connections to external equipment.	14~17
Intermittent interference	Check if the source of interference is shielded correctly.Move these kinds of electrical devices away from the unit.	43
Normal picture, but no sound • Check the volume level. • Check if the MUTE button has been pressed or not. • Check the connections to external equipment. • Try next/other Audio Language.		18, 14~17 , 32
No picture - normal sound	Check the value level of "Brightness" and "Contrast" in "Video Menu".	30
The remote control does not work. • 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. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • Check if the buttons on the control panel are working. • 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.	Unplug and connect the power cord again.	7, 33
Normal picture but no color-normal sound	Check the connections to external equipment.	14~17
No picture The Indicating lamp \rightarrow Off	Check if the power cord is plugged into the socket securely.	7, 9
No picture The indicating lamp \rightarrow Blue	Check if the signal cable is connected correctly and securely.Adjust the level of Brightness and Contrast lower.	12, 14~17, 30
Some screen display aspects cannot be switched in.	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, 20 53
No power	Check the power cord is connected to the AC oulet.	9, 12
Turns Off by itself	Check or ensure Sleep Timer settings are not activated.	11, 18, 33
Turns On by itself	Check if the HDMI-CEC feature is activated.	37
Picture may "block" or freeze when watching a digital channel.	Check signal strength under "Signal Strength".	39

HDMI Issues

SYMPTOM	CHECKLIST	PAGES			
No picture - no sound	 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. 				
Error notice comes to screen	 Try pressing "exit" on HDMI device remote control and then on TV remote to find source of the error OSD. If error persist or comes back even after pressing exit, try alternate HDMI input on TV. Unplug and re-plug HDMI connection while TV and HDMI source device are powered on. Turn TV and HDMI device off. Turn TV on first and then HDMI device second. 				
Normal picture, but no sound	Check HDMI Audio settings under the HDMI device menu (of the HDMI source device). In order to get sound on TV, HDMI output must be set to PCM option.				
No sound from TV Optical Out when using HDMI devices	 Change Digital Output selection. As an option, use audio optical output from HDMI source device directly to separate Audio Amplifier. 	17			
Picture flickers during channel change w/ using HDMI Set Top Boxes	This is normal operation from the source switching delay itself. It's not an indicator of a TV malfunction.				
Picture is blurry or fuzzy	If HDMI source is HD capable, ensure it's output is set to 1080i or 720p under HDMI device menu (of the HDMI source device).				
Pixelization noise or loss connection ("No Signal" message display)	• 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.				



IGNITION NOISE:

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

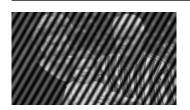
GHOSTS:

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



SNOW:

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



RADIO FREQUENCY INTERFERENCE:

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

PREVENTION OF AN OBSTACLE TO RADIO RECEIVERS

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

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

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



BLOCK NOISE or FREEZE (DIGITAL INPUT):

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



BLACK SCREEN:

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

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

Features and Specifications

Features:

- New High Gloss Black Frame
- (4) HDMI[™] (V.1.3 with x.v.Color[™], Deep Color, CEC) - 1080p60, 1080p24 Input Compatible
- New Multi-Function Remote Control
- 120Hz 1080p Perfected
- Reel 120 Motion Correction
- Dynamic/Standard/Movie/Custom/Game Picture Memories
- 3 Preset Color Temperatures
- Game Mode

Video:

- 1920 x 1080p Display Resolution L42S503
- Wide Viewing Angle
- Color Temperature Presets: High, Standard and Medium.
- Multiple Screen Fill Modes: (Auto/4:3/16:9/Zoom 1/ Zoom 2/ Full)1
- 4MB 10-bit 3D Y/C Comb Filter
- Picture Modes : Dynamic, Standard, Movie, Custom and Game

Audio:

- MTS Stereo/SAP
- 4 Sound Modes (Custom, Standard, Movie, News)
- SRSTruSurround HD Sound
- 24W L42S503

Inputs:

•	Power Input	Ιz
•	Power Consumption	
	Maximum Power L42S503:	А

•	Antenna Input Impedance
•	Channel Coverage
	VHF-Band
	UHF-Band
	CATV Mid Band
	Super Band J-W
	Hyper Band
	Ultra Band
•	Television System NTSC Standard
	ATSC Standard (8 VSB, 64-QAM, 256-QAM)
•	Video
•	S-Video
	Luminance(Y):
	Chrominance(C):0.286Vp-p,75Ohm
•	Component Video
	Luminance(Y): 1.0Vp-p, 75 Ohm
	Chrominance(Pb/Pr): 0.7Vp-p, 75 Ohm
•	Audio Input Impedance more than 20k Ohm
•	
•	Average Input Level

Supplied Accessories:

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

Inputs/Outputs:

•	Wideband Component Y, Pb,Pr
•	Composite Video
•	S-Video
•	Antenna (RF)Inputs
•	Audio Output
•	Optical Output1
•	HDMI
•	Upgrade USB Slot
•	RGB Input1
•	RGBAudio Input1
•	Phono Jack for Headphones1

Specifications:

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

¹ Screen mode availability varies by input format

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.



DOLBY.

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

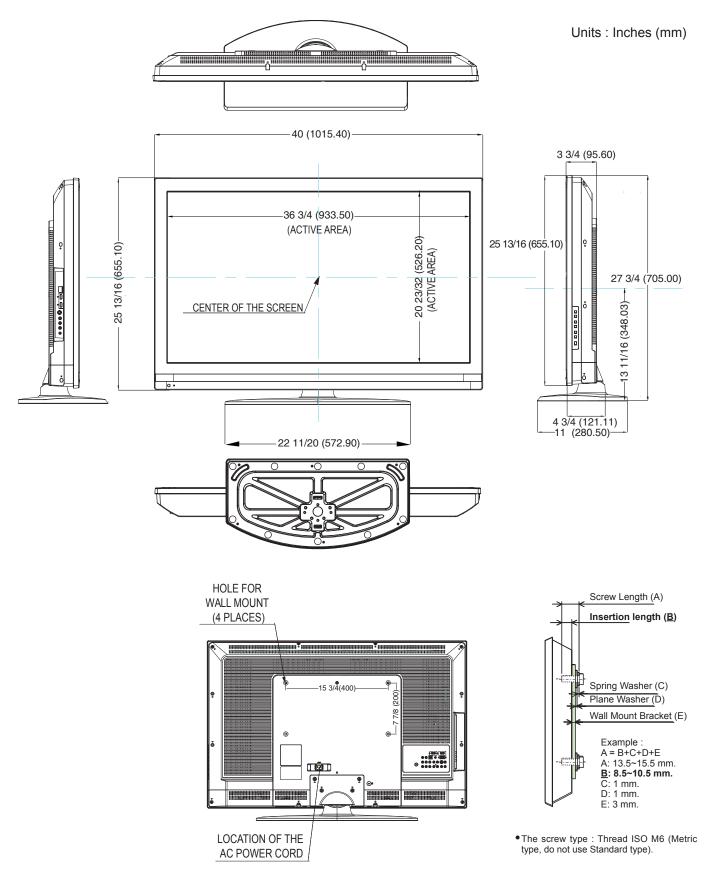
SRS TruSurround HD



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

Set Dimensions

L42S503 model (Includes Table Top Stand) Weight (lbs./kg): 41.9/19



Rear View Use as Reference for Wall Mount Bracket





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

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

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

Au Canada: 800.HITACHI (800.448.2244)

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

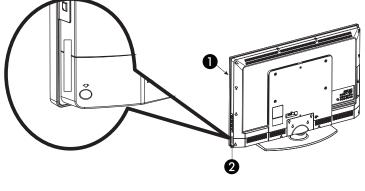
 Samedi
 10:00 am – 5:00 pm
 HNC

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

Customer Record

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

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



Model Name

Serial Number

Limited Warranty

Congratulations on your purchase of a new Hitachi display product.

LIMITED WARRANTY Hitachi Home Electronics (America), Inc. warrants this product in accordance with the terms and conditions applicable to the products identified below:	Conditions of Hitachi Limited Warranty This Hitachi display product (the "Product") is warranted to be free from defects in materials and workmanship beginning on the date of purchase by the original owner and continuing for the duration of the applicable time periods specified below. If the Product is found to be defective, Hitachi will repair or replace (at Hitachi's option) defective parts at no charge, subject to the conditions of this Limited Warranty. If the original owner rejects, refuses or otherwise does not accept Hitachi's offer to repair or replace such defective parts under this Limited Warranty, this Limited Warranty shall be void and of no further force or effect. This Limited Warranty extends to the original owner only and is not transferable, and such owner must provide a dated sales receipt for the Product to qualify for parts or service under this Limited Warranty. The original owner must notify Hitachi of a defect claim by calling 800-HITACHI during the applicable Limited Warranty period for this Limited Warranty to be effective. This Limited Warranty is valid only in the U.S.A. and Puerto Rico.
Hitachi Product : LCD Flat Panel Televisions	 PARTS: The Limited Warranty period for parts is 1 year from the date of original purchase. During the Limited Warranty period for parts, Hitachi will replace defective parts with new or rebuilt parts (at Hitachi's option) at no charge for such parts. Any replacement part will be warranted for the remainder of the original warranty period applicable to the part replaced. LABOR: The Limited Warranty period for labor is 1 year from the date of original purchase. During the Limited Warranty period for labor, Hitachi will repair or replace (at Hitachi's option) defective parts without charge for labor. SERVICE LOCATION: In-home warranty service, which includes either in-home repair or free pick-up and delivery (at Hitachi's option), applies to all Hitachi products except: (i) 32-inch and smaller LCD Flat Panel Televisions; (ii) Products located outside the U.S.A. or Puerto Rico; (iii) Products located more than seventy-five (75) driving miles from Hitachi's nearest Authorized Service Facility. If the foregoing clauses (i), (ii), (iii), apply, then the Product owner will be responsible for bringing/delivering the Product to a Hitachi Authorized Service Facility and, following warranty service, retrieving the Product from such Authorized Service Facility.

Please call 800-HITACHI (800-448-2244) for operational, hook up or warranty service support.

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

SERIAL NO.

STATE

DATE OF PURCHASE



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.

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.

800-HITACHI (800-448-2244)

guides and other useful information.

Visit our website at www.hitachi-homeelectronics.us :

B. Any Product whose serial number has been removed, altered, replaced, defaced or rendered illegible.

MODEL NO.

CITY

DEALER NAME

DEALER ADDRESS

- 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 Operating Guide.
- G. Any Product used for purposes or applications, or subjected to operating conditions, other than those identified as acceptable in the Product's Operating 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 misadiustments 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 Operating 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.

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The open source software modules incorporated in this Hitachi TV are shown in the table below

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

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End User License Agreement for Operating System Software

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

1. Source Code.

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

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

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

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

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

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

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

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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	Video		Yes	Yes	Yes		Yes	Yes
Analog								
AIR / CABLE	YCbCr	/ YPbPr	Yes	Yes	Yes		Yes	Yes
Digital								
AV 1	Video /	S-Video		Yes	Yes		Yes	Yes
AV 2	Video /	S-Video		Yes	Yes		Yes	Yes
COMPONENT 1	YPbPr		Yes	Yes	Yes		Yes	Yes
COMPONENT 2	YPbPr		Yes	Yes	Yes		Yes	Yes
HDMI 1	HDMI	1080p/1080i/	Yes	Yes	Yes	Yes	Yes	Yes
	/ DVI	720p/480p/480i						
		VGA	Yes			Yes		
HDMI 2	HDMI	1080p/1080i/	Yes	Yes	Yes	Yes	Yes	Yes
		720p/480p/480i						
		VGA	Yes			Yes		
HDMI 3	HDMI	1080p/1080i/	Yes	Yes	Yes	Yes	Yes	Yes
		720p/480p/480i						
		VGA	Yes			Yes		
HDMI 4	HDMI	1080p/1080i/	Yes	Yes	Yes	Yes	Yes	Yes
		720p/480p/480i						
		VGA	Yes			Yes		
RGB	Analog RGB		Yes			Yes		

Appendix B: RGB Format

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

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

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