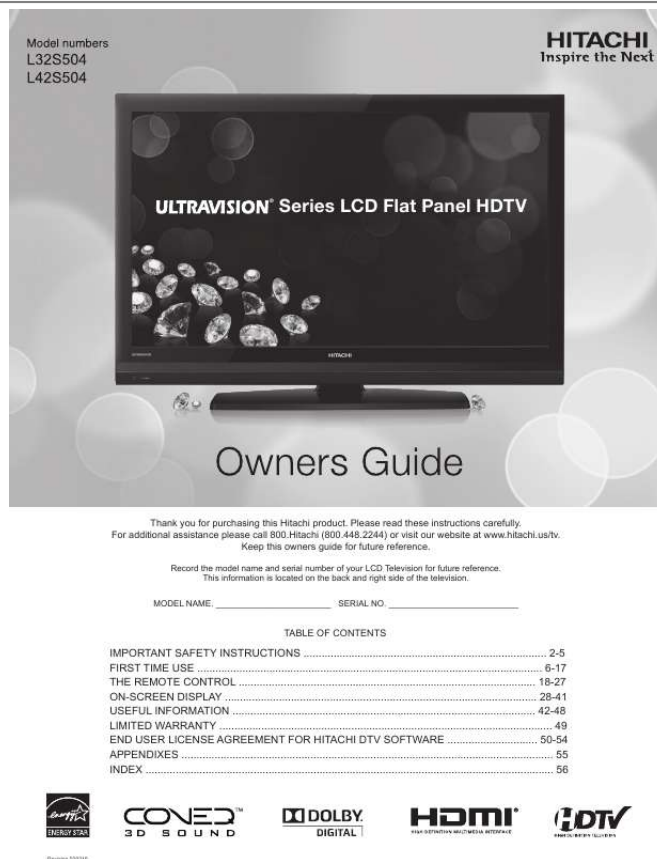




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HITACHI L42S504. You'll find the answers to all your questions on the HITACHI L42S504 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HITACHI L42S504
User guide HITACHI L42S504
Operating instructions HITACHI L42S504
Instructions for use HITACHI L42S504
Instruction manual HITACHI L42S504



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Manual abstract:

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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.



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These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and the receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/television technician for help. Modifications Cables The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hitachi America, Ltd. may void the user's authority to operate the equipment. Connections to this device must be made with shielded cables with metallic RF/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, (the FCC rules. or), in accordance with paragraph 15.119 and 15.

122 of Declaration of Conformity This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions : (1)This device may not cause harmful interference and (2)This device must accept any interference received, including interference that may cause undesired operation. For questions regarding this declaration, contact: Hitachi America, Ltd. 900 Hitachi Way Chula Vista, CA 91914-3556 Tel. 800.

448.2244(800.HITACHI) ATTN: Customer Relations · 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 in the United States and other countries. 3 Important Safety Instructions Congratulations on your purchase! As you enjoy your new product, please keep these safety tips on mind: HITACHI CARES! · · · · The consumer electronics industry is committed to making home entertainment enjoyable and safe. Please note the American Academy of Pediatrics discourages television viewing for children younger than two years of age. The home theater entertainment experience is a growing trend and larger flat displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations. Flat Panel displays that are inappropriately situated on dresser, bookcases, shelves, desks, speakers, chest or carts may fall over and cause injury.

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

.. 49 END USER LICENSE AGREEMENT FOR HITACHI DTV SOFTWARE ...

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FIRST TIME USE ASSEMBLY OF THE BASE IMPORTANT: The base of the LCD TV must be assembled prior to use. 1. 2. 3. 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. Carefully align and insert the Base to the TV stand post. Insert the screws included with the accessories to the bottom of the base and tighten the base to the stand. **NOTES** · Do not block the ventilation holes of the LCD Television. Blocking the ventilation holes might cause overheating and damage.

· In case of an abnormal symptom, unplug the AC cord and contact 800.HITACHI. · If you purchased a wall mount bracket, please ask for professional installation. Do not try to install by yourself. · Install the unit at a proper area where it does not expose anyone to any danger of hitting themselves (For example: their hands, head or face, etc.

) against the edge of the unit that could cause personal injury. **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. 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. Please use caution when handling the left and right bottom corners of the TV, as these areas protrude slightly from the TV's frame. Handle this area with care to avoid damaging the unit and the possibility of personal injury. 1.

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

30 cm (12 inches) 10 cm (4 inches) 10 cm (4 inches) **Securing to a Wall** 1. 2. Use a metallic wire (two locations) to 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: A Wire Wire Wire Clamp Screw A 32" 42" 4 in. 10 cm.

7 How To Install Your New Hitachi LCD Television WALL MOUNTING SETUP STEP (1) : REMOVE THE STAND BASE FROM THE LCD TELEVISION In order to remove the stand from the TV safely, please put the TV set on a soft and flat surface (blanket, foam, cloth, etc.) to prevent any damage; then remove the screws as shown below (For model L42S504, there is one more screw under the cover) 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 illustrated on page 46 and 47. 4 Screws (M4).

(a) (a) (b) (b) L32S504 4 Screws ((a) M4 and (b) tapping screws). Do not mix please. 1 Screw (M4). L42S504 Stand Base **STEP (2) : INSTALL THE WALL MOUNT BRACKETS ON THE LCD TELEVISION USING 4 SCREWS.** Screw mounting holes (4 locations) for use with a wall mount bracket. **DO NOT** reuse the original screws that were in these screw mounting holes or the screws removed in STEP(1) above, as such screws are not long enough to properly secure the TV to the wall bracket. Please refer to example at right and caution below to determine proper screw length. Wall Mount Brackets Screw Length (A) Insertion Length (B) Spring Washer (C) Plane Washer (D) Wall Mount Bracket (E) Example : A = B+C+D+E A: 13.5~15.5 mm.

B: 8.5~10.5 mm. C: 1 mm. D: 1 mm. E: 3 mm. For Wall Mount assembly, please refer to the Installation Manual of the Wall Mount Unit. The screw type :Thread ISO M6 (Metric type, do not use Standard type). **CAUTION** Insertion length (B) of the screws must be within 8.5~10.

5 mm. If the length is less than 8.5 mm, the TV's weight cannot 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 insertion length is very important. **STEP (3) : TIPS TO CONSIDER FOR THE LOCATION OF THE LCD TELEVISION.** Do not block the ventilation holes. In addition please keep a certain distance around and **CAUTION** 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. · More than 30 cm (1'). More than 10 cm (4").

Keep more than 2 cm (0.8") away from the wall. 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 **CAUTION** 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. 8 Side Panel Jacks & Controls

FIRST TIME USE FRONT VIEW USB/ 8 4 7 5 10 3 2 6 3 11 1 9 Headphone jack Use this jack to connect headphones. **POWER** button **POWER** light indicator This power button is for turning ON the LCD TV, in order to turn the TV ON, the standby indicator must be lit red.



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If the indicator is off, plug the power cord into the power outlet. To turn the TV ON, press the Power button (). A blue indicator lamp located on the lower left corner of the front bezel illuminates to indicate the TV power is ON.

Indicating Lamp Lights Red Lights Blue Quickly Blinking Red Power Status OFF (Stand-by) ON ON Operating When the LCD TV is plugged to the AC line. TV Power is ON; picture is shown. The TV is powering OFF. It will soon be in the Off (Stand-by) state. MENU button This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote.

This button also serves as the Return button when in the MENU system. INPUT button Press this button to access the INPUT menu. VOLUME (+/-) level Press these buttons to adjust the sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left () and right () buttons when in the Menu system.

1 REMOTE CONTROL SENSOR Point your remote at this area when selecting channels, adjusting volume, etc. CHANNEL selector Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down () and up () buttons when in 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. NOTES HDMI 3 & HDMI 4 Use these side HDMI inputs for AV equipment such as SetTop-Boxes or DVD players equipped with an HDMI output connection (see page 14 for reference). USB Multimedia / UPGRADE Slot This USB slot is for use with the multimedia feature and future software upgrades. · 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. · Please do not put anything around the remote control sensor.

9 Rear Panel Jacks RGB 7 Antenna Input To switch between Cable and Air, go to the Channels Menu option to change the signal source CABLE or AIR (see page 40). Digital Out (Optical Digital Audio) This jack provides Digital Audio Output for your audio device that is RAW and PCM compatible, such as an audio amplifier. The Digital Output option will grayout with all input sources, except with a digital program channel on the Air/Cable input source.

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. NOTE NOTES · Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's Pb input and the components R-Y output to the TV's Pr input. · Your component outputs may be labeled Y-CbCr. In this case, connect the component Cb output to the TV's Pb input and the component Cr output to the TV's Pr input. · It may be necessary to adjust Tint to obtain optimum picture quality when using the Y-PbPr inputs (see page 31). DVI Audio Input This jack provides Audio Input from a DVI source when connected to the HDMI 1 Input.

A DVI (source) to HDMI (TV) connection must be made to HDMI 1. NOTES · It is not necessary to connect the DVI Audio Input when the connection to HDMI 1 is a HDMI to HDMI connection. · The DVI Audio Input is only compatible with the HDMI 1 Input. HDMI 1 & 2 (High Definition Multimedia Interface) About HDMI HDMI is the © next-generation, all digital interface for consumer electronics. HDMI enables the secure distribution of uncompressed high-definition video and multichannel audio in a single cable.

Because digital television (DTV) signals remain in digital format, HDMI assures that pristine high-definition images retain the highest video quality from the source all the way to your television screen. Use the HDMI input for your AV equipment such as Set-Top-Boxes or DVD players equipped with an HDMI output connection. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. Composite AV1 Jacks AV1 input provides composite Video and S-Video jacks for connecting equipment with this capability, such as a DVD player, Game Console or Camcorders. Audio Out jack This jack provides stereo audio output from your TV to your audio device, such as an audio amplifier.

10 RGB 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 Power On/Off (TV, DVD, PVR/VCR, SAT/CBL, AVR) Press this button to switch the selected device On or Off standby. (-) Dash/Sleep Button (TV, SAT/CBL, PVR/VCR, DVD) Press this button to tune a digital channel. In TV mode press to set your Sleep Timer from 5 minutes to 4 hours. Last Channel Button (TV, SAT/CBL, PVR/VCR, DVD) Press this button to switch between the current and the last channel viewed. Volume Buttons (TV, AVR) Press up (+) to increase or down (-) to decrease the audio level of your TV. Menu Button (TV, DVD, PVR/VCR, SAT/CBL, AVR) Accesses the OSD menu system. EXIT Button (TV, DVD, PVR/VCR, SAT/CBL, AVR) Press this button to exit the OSD menu.

CURSOR PAD/Select Buttons (TV, DVD, PVR/VCR, SAT/CBL, AVR) The CURSOR PAD is used to navigate through the OSD and INPUT menu system, The Select button is used to Set/Activate highlighted menu items. Input (TV, AVR) Press this button to change input. Energy Save Button (TV) Press this button to set Power Consumption reduction based on three levels (Min, Med, Max). CONTROL BUTTONS (SAT/CBL, DVD, PVR/VCR, AVR) Control the functions of your Satellite Receiver, Set-Top Box, Cable Box, DVD, VCR, PVR and AVR. Also Control the functions of compatible DVD players with HDMI-CEC control. Device Buttons (TV, DVD, PVR/VCR, SAT/CBL, AVR) Press these buttons to switch between your devices. Numeric Buttons (TV, DVD, PVR/VCR, SAT/CBL, AVR) Press these buttons to manually enter the channel or for numeric entry when navigating through the OSD menu system. Enter Button (TV, DVD, PVR/VCR, SAT/CBL, AVR) Press this button to use as a SELECT feature. Channel Up/Down Buttons (TV, PVR/VCR, SAT/CBL, DVD, AVR) Changes the channel up or down.



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Mute (TV, AVR) Reduces the audio level to 0 if pressed once, and restore the audio level when pressed a second time.

Guide Button (SAT/CBL, PVR/VCR, DVD) Press this button to access the program guide of other devices. Info Button (TV, DVD, SAT/CBL, PVR/VCR) Shows the input signal status and other information. Picture Mode (TV) Picture mode can be changed, each time it is pressed, in the following sequence. Dynamic Standard Movie Custom PRO-Night PRO-Day Game Favorite Channel Button (TV, SAT/CBL) Press to access the Favorite Channel list. Aspect (TV) Press this button to change picture size.

Closed Caption (CC) Button (TV) Press to show and change the closed caption mode. LEGENDS TV - Television DVD- Digital Video Disc Player AVR - Audio/Video Receiver VCR - Video Cassette Recorder SAT - Satellite Receiver PVR - Personal Video Recorder CBL - Cable Box 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 ";" 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 38.

11 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. Air/Cable RGB RGB Rear Panel Jack To outdoor Antenna or Cable TV (CATV) System To Air/Cable Terminal Attach an optional antenna cable mixer to the TV Air/Cable terminal and connect the cables to the antenna mixer. Consult your dealer or service store for the antenna mixer. Air/Cable 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 TV Air/Cable terminal on the TV. To Air/CableTerminal To outdoor VHF or UHF Antenna To UHF antenna To outdoor antenna or CATV system Antenna Mixer c). When both VHF and UHF antennas are connected NOTE Connecting a 300-Ohm twin lead connector may cause interference. Using a 75-Ohm coaxial cable is recommended. 2. CONNECT YOUR NEW HITACHI LCD TV TO THE POWER SOURCE a). Connect the power cord to your TV set and secure it with the AC Wire Clamp (see page 7) . AC Wire Clamp b). The Indicating Lamp will light red (Standby mode) and then light blue (picture is shown).

Indicating Lamp a). Connect the power cord to the AC wall outlet . 4 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. or For Stand-By Power OFF 5 2 3 NOTE If the Indicating lamp is OFF, the Power Button on the Remote Control will not operate.

Please make sure that the power cord is plugged to the AC outlet. 1 12 TV Setup Wizard 4. FOLLOW THE TV SETUP WIZARD INSTRUCTIONS 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 Energy Savings Initial Settings screen will appear.

Please select either HOME or RETAIL mode settings to advance to the TV Setup Wizard screen. If you select HOME mode, this will save energy, and is intended for home use. RETAIL mode will set the Picture to Dynamic default Settings and the picture will be brighter. This setting is intended for showroom and shop use. If later you want to change the Energy Savings Initial Settings, you can use the Setup menu (refer to page 37). Setup Wizard (1/8) Please select Home/Retail ... Home FIRST TIME USE Setup Wizard (5/8) Please select TV RF tuning band ..

. Air Cable Previous Move Cancel SEL Select The sixth 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. Setup Wizard (6/8) Please check that the RF cable is connected properly. Scan time may take over 20 minutes. Start Retail Home mode default settings are recommended for in-home use. ENERGY STAR R qualified. Retail mode is intended for in-store display and resets video settings at AC Power On. Move SEL Select NOTE Retail mode is intended for showroom or shop use. If you make adjustment changes in this mode, they will not be saved when TV's AC power is lost (e.

g. AC power cord unplugged). Previous Move Cancel SEL Select The TV Setup Wizard screen automatically starts after the Energy Savings Initial Settings the first time the TV is turned on. The second step is to set the language of your TV On Screen Menu. Select the language that you prefer.

Use the p and q CURSOR to select language and press the SELECT button on the remote control. Setup Wizard (2/8) Please select language ... English Español Français The seventh step is the channel scanning process, it shows the scan of digital channels first and then the analog channels next.

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 (7/8) Searching, Please wait... Searching Digital CH Digital Channels Found Analog Channels Found Channel 3 0 0 1% Skip Previous Move Cancel SEL Select SEL Select The third and fourth steps are to set the date and time. There are two options; one for automatic time setting in which you will 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. Setup Wizard (4/8) Please select Time Zone .

.. NST AST EST CST MST PST AKST HST NOTES . . . Once the user cancels the wizard, the wizard will not be shown again. If you see the screen above and if you did not connect your Antenna cables to your TV, turn off your TV, unplug the power cord and connect your cables according to the applicable connections in the "First Time Use" section of this Owners Guide. After completing the TV Setup Wizard, these screens will not appear again.



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For updating and adding the channels available in your area refer to the Add Channels to List feature on page 40. Setup Wizard (3/8) Please select Time mode ... Auto Previous Move Cancel SEL Select manual Setup Wizard (4/8) Please enter the date and time .

.. Year Month 2010 Jan 1 3:59 AM OK Previous Move Cancel SEL Select The last step is the completion of process, it shows a brief message and you are ready to view TV programming. 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 (8/8) Previous Move Cancel SEL Select Date Time Congratulations. TV Setup is done. The fifth 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 p and q CURSOR to select a source and press the SELECT button on the remote control.

EXIT Exit 13 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 two 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). USB/ DVD player A) Connecting HDMI signal SIDE INPUT PANEL or [HDMI] [HDMI] HDMI DIGITAL OUTPUT CAPABILITY HDMI OUT Set-Top Box Home video game system B) Connecting DVI signal 3 USB/ Audio Amplifier AUDIO IN L R L (White) DVI DIGITAL OUTPUT CAPABILITY L (White) OUTPUT DVD player USB/ or SIDE INPUT PANEL 3 L R Set-Top Box R (Red) R (Red) DIGITAL OUTPUT Home video game system [HDMI] 3 DVI to HDMI Cable [DVI] 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 SIDE INPUT PANEL S-VIDEO OUTPUT CAPABILITY L (White) R (Red) OR VIDEO (Yellow) L (White) R (Red) OUTPUT VIDEO L R DVD player L (White) R (Red) VIDEO (Yellow) L (White) R (Red) OUTPUT S-VIDEO L R VCR Camcorder Home video game system NOTES . . . Completely insert connection cord plugs when connecting to side panel jacks. If you do not, the played back picture may be abnormal. Cable plugs are often color-coded. Match colors of plugs and terminals, i.

e. connect red to red, white to white, etc. When making video connections, connect S-Video only or Video only. If both are connected, S-Video takes priority. The exact arrangement you use to connect the VCR, Camcorder, DVD player, or HDTV Set-Top-Box to your LCD TV is dependent on the model and features of each component. Check the owners guide of each component for the location of video and audio inputs and outputs. 14 Rear Panel Connections Before Operating External Video Sources FIRST TIME USE Connect an external source to one of the INPUT terminals, then press the INPUT button to show the Inputs List. Use the CURSORS () to select the Input of your choice. Then press the SELECT button to confirm your choice (see page 19). Input List 0.

TV 1. HDMI 1 2. HDMI 2 3. HDMI 3 and + + 4. HDMI 4 5.

Component 1 6. Component 2 7. AV1 8. AV2 9. RGB Example: Selecting the TV (Air/Cable) Input and highlight "0.

TV". EXIT Exit Move SEL Select Outside antenna or Cable TV coaxial cable HDMI to DVI DIGITAL OUTPUT AUDIO OUT 2-Way signal splitter VCR ANT IN V L R HDMI DIGITAL OUTPUT CAPABILITY RGB RGB HDMI to HDMI HDMI OUTPUT RGB DIGITAL OUTPUT CAPABILITY Y OPTICAL IN P / C B B OUTPUT P / C L R R S-Video OUTPUT Video L R Personal Computer STEREO SYSTEM AMPLIFIER HDTV SET-TOP BOX DVD PLAYER with

Component Output capability DVD PLAYER VIDEO GAME with Composite video capability NOTE Cables are not included. TIPS ON REAR PANEL CONNECTIONS COMPONENT Y-PbPr (COMPONENT 1 & 2) or HDMI (1 & 2) connections are provided for high performance DVD players, VCRs etc. that have this feature. Use these connections in place of the standard video connection if your device has this feature. Refer to the owners 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 31). 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. NOTES 15 Rear Panel Connections CONNECTING A PERSONAL COMPUTER Use the RGB PC connection terminal and the Analog Audio Input terminals to connect the PC. RGB IN OUT [PC sample] 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 Side Panel on the right.

Press the INPUT button, then select RGB from the INPUTS menu to view the signal from the PC. RGB (D-sub 15 Pin) or (Audio) 2. DVD player 1. Connect the VIDEO and AUDIO cables from the VIDEO OUT and AUDIO OUT jacks of the VCR to the AV1 (VIDEO)jacks. A VCR connection to Rear Panel AV1 example is shown on the right.

Press the INPUT button, then select AV1 from the INPUTS menu to view the program from the VCR. RGB Camcorder OUTPUT VIDEO L R RGB CONNECTING A VIDEO AND STEREO AUDIO SOURCE TO AV1 TV REAR PANEL VCR VCR (Yellow) (White) 2. Home video game system CONNECTING A COMPONENT AND STEREO AUDIO SOURCE TO COMPONENT 1 or 2: YPbPr 1. Connect the Y, Pb/Cb, Pr/Cr and AUDIO cables from the Y, Pb/ Cb, Pr/Cr OUT and AUDIO OUT jacks of the DVD PLAYER or HDTV Set-Top-Box to the COMPONENT 1 or 2 YPbPr and AUDIO jacks.



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A DVD connection to Rear Panel COMPONENT 2 example is shown on the right. TV REAR PANEL de Dolby DVD Player/ HDTV STB DVD player VCR L R Y Output PB (Red) PR Blue Red 2. Press the INPUT button, then select COMPONENT 1 or 2 from the INPUTS menu to view the program from the DVD player or HDTV Set-Top Box. Home video game system 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. 16 Green White Red Camcorder 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 devices, connect a DVI to HDMI cable to the HDMI 1 input. Connect the audio out L and R cables to DVI Audio Input or connect the audio cables from the Audio output jack from the HDTV set top box or DVD player to an external audio amplifier as shown to the right. Press the INPUT button, then select HDMI 1 or 2 to view the program from the HDTV SET-TOP BOX or DVD player.

TV REAR PANEL HDMI Input HDMI DIGITAL OUTPUT CAPABILITY DVD Player/ Recorder DVD player FIRST TIME USE 2. HDMI OUT VCR [HDMI] [HDMI] RGB Camcorder 3. TV REAR PANEL DVI to HDMI Input DVI DIGITAL OUTPUT CAPABILITY Home video game system DVD Player/ Recorder DVD player NOTES . Completely insert the connection cord plugs when connecting to the rear panel jacks. The picture and sound that is playing 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 HDMI 1 can support DVI audio input. DIGITAL OUTPUT VCR [HDMI] RGB [DVI] Camcorder L R Audio Output (White) Or AUDIO IN L R Home video game system AUDIO AMPLIFIER Note : An external Audio amplifier can be used for the same purpose. CONNECTING AN EXTERNAL AUDIO AMPLIFIER To monitor the audio level of the LCD TV to an external audio amplifier, connect the system as shown on the right. The DIGITAL 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 DIGITAL OUT terminal outputs all audio sources to equipment with Optical IN capability. 1. 2. Connect an optical cable from the DIGITAL 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.

TV REAR PANEL Optical cable Or (Red) R AUDIO IN OPTICAL IN L STEREO SYSTEM AMPLIFIER RCA Stereo cable NOTES 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. 17 The Remote Control POWER button Press this button to turn the TV set on or off. 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, settop-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. CHANNEL SELECTOR / ENTER buttons The CHANNEL SELECTOR buttons are used to select channels, lock access code, etc. Use the CHANNEL SELECTOR buttons to enter one, two, or three numbers to select channels. Enter 0 first for channels 1 to 9, or simply press the single digit channel you wish to tune, then press the ENTER button for the TV to tune. Channel selection may also be performed by CHANNEL (CH) UP () or CHANNEL (CH) DOWN ().

(-) 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. LAST CHANNEL button Press this button to toggle between the current and last channel viewed. VOLUME (VOL), MUTE button Press the VOLUME button (+ or -) until you obtain the desired sound level. Press the MUTE button to turn the sound off completely (MUTE). To restore the sound, press the MUTE button one more time, or VOL UP (+). 8 Volume 10 Mute MUTE 18 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 37). 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. NOTES . Press the INFO button again or the EXIT button to return to normal viewing.

. The Aspect INFO will not be shown when the INFO key is pressed. MENU button EXIT button The MENU button will start the On-Screen Display. GUIDE button Press this button to access the Channel Guide of your Satellite receiver, Set Top Box or Cable Box while in SAT/CBL mode. 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.



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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. This button will exit all On-Screen Displays. 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.

REMOTE CONTROL INFO button Press this button when you want to check the channel being received, the picture source, if the channel has stereo (ST) or second audio program (SAP), the time, and CHANNEL ID. + + ANALOG CHANNELS INFO AT 39-0 NBC Main Picture Source & Channel Indication Broadcast Channel Indication Input List 0. TV 1. HDMI 1 2. HDMI 2 No Program Title.

No Program Description. Analog TV-G Stereo+SAP 3:17PM Clock Broadcast Rating Audio Broadcast 3. HDMI 3 4. HDMI 4 5. Component 1 6. Component 2 Program Information Analog Channel DIGITAL CHANNELS INFO DTV 15-1 KPBS-HD Main Picture Source & Channel Indication Broadcast Channel Indication 7. AV1 8. AV2 9. RGB Sesame Street Program Description. 3:00PM- 3:30PM 1080i 3:17PM TV-G Multi Clock Broadcast Rating Audio Broadcast Move SEL Select EXIT Exit Program Information Program Picture Format Run Time VIDEO INPUTS INFO HDMI Main Picture Source No Program Title. No Program Description. 3:17PM 1080i Clock 0. 1. 2. 3.

4. 5. 6. 7. 8. 9. TV HDMI 1 HDMI 2 HDMI 3 HDMI 4 Component 1 Component 2 AV 1 AV 2 RGB Watch TV from an Air or Cable signal. Select to choose HDMI 1 Input. Select to choose HDMI 2 Input. Select to choose HDMI 3 Input.

Select to choose HDMI 4 Input. Select to choose Component Input 1. Select to choose Component Input 2. Select to choose AV1 Input. Select to choose AV2 Input.

Select to choose PC input Program Information Picture Format 19 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. 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. 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. Zoom1/Zoom2 Use these aspect modes to zoom in and to reduce the black bars. 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. . . . AIR/CABLE - Analog Signal AIR/CABLE - Digital Signal Component IMAGE INPUT Auto 4:3 16:9 Zoom2 Zoom1 - AV IMAGE INPUT 4:3 16:9 Zoom2 Zoom1 . . . HDMI - VGA DVI - VGA RGB IMAGE INPUT Auto Full . . . HDMI - 1080p/1080i/720p/480p/480i DVI - 1080p/1080i/720p/480p/480i IMAGE INPUT Auto 4:3 16:9 Zoom2 Zoom1 Full 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 55 for Aspect availability according to signal format in use. 20 How to Use the Remote to Control your TV ENERGY SAVE (E).

SAVE) button Use this button to choose power consumption reduction settings based on 3 levels (Min, Medium, Max). See page 37 for further details.

CLOSED CAPTIONS (C.C.) button Use this button to display the dialogue, narration, and/or sound effects of a television program or home video which are displayed on the TV screen when available. Your local TV program guide denotes these programs as or . 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 PAD and then press SELECT to view. REMOTE CONTROL Favorite CH List FAV CH 0.

Ch 5-0 1. Ch 7-0 2. Ch 9-0 3. Ch 11-0 DIGITAL CH ANALOG CH Move SEL Select EXIT Exit Picture mode (P.MODE) button Press this button to toggle between Dynamic, Standard, Movie, Custom, Game, Pro-Day and Pro-Night picture mode settings.

Select Dynamic 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.

PRO modes are for your custom calibration settings. (see page 30 for setting changes). 8 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's owners guide for more information. 21 How to Use the Remote to Control your AV Equipment 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. 2. 3. 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. Release the device button. If done correctly, the device LED indicator will blink 3 times to confirm proper setup. The remote will now control the desired device.

Power button Device buttons Numeric buttons 4. 5. 6. SETUP EXAMPLE (Hitachi Cable Box with precode 0003) 1. 2.

3. 4. 5. 6. Turn ON your Cable box.

Select Cable mode by using your SAT/CBL button to position the LED indicator on SAT/CBL. Hold down the SAT/CBL button on the remote and press the numbers 0, 0, 0 and 3.



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Release the SAT/CBL button. The indicator light will flash 3 times if the code was accepted. 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. The remote will now control your Cable box. 7.

Repeat the same procedure for your set-top-box or satellite receiver (select SAT/CBL), your DVD (select DVD), your VCR/ PVR(select VCR/PVR), or your AVR (select AVR). NOTES . . . If your AV 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 owners guide. The remote control will remember the codes you have programmed even after the batteries are removed from the remote control. To reset all programmed codes to factory default place remote control in TV mode, then press and hold TV mode key and enter "9", "8", "1" in sequence. 22 How to Use the Remote to Control your AV Equipment Cable Device Button Set-Top-Box/ Satellite Receiver Device Button REMOTE CONTROL MY CABLE BOX CODE IS: _____ NOTE Refer to the instruction manual of the Cable Box for operation of the buttons exclusively for the Cable Box. MY SET-TOP-BOX/SATELLITE RECEIVER CODE IS: _____ NOTE Refer to the instruction manual of the Set-TopBox/Satellite Receiver for operation of the buttons exclusively for the Set-Top-Box/Satellite Receiver. PRECODED CABLE BOX buttons These buttons transmit the chosen precoded cable codes : -Power -Cursor & Select -Number PAD -Menu -Info -Enter -Exit -Channel Up & Down -Dash (-) -Guide -Last CH -Fav CH -Play, Stop, Pause, RWD, FWD, Skip -Color Buttons FWD, Skip RWD, Record. EXCLUSIVE TV buttons These buttons are for operating the TV : -Input -P. Mode -CC -Mute -Aspect -Vol Up & Down -E.

Save PRECODED SET-TOP BOX/SATELLITE buttons These buttons transmit the chosen precoded Set-TopBox/Satellite Receiver codes : -Power -Cursor & Select -Number PAD -Menu -Info -Enter -Exit -Channel Up & Down -Dash (-) -Guide -Last CH -Fav CH -Play, Stop, Pause, RWD, FWD, Skip -Color Buttons FWD, Skip RWD, Record. EXCLUSIVE TV buttons These buttons are for operating the TV : -Input -P. Mode -CC -Mute -Aspect -Vol Up & Down -E. Save 23 How to Use the Remote to Control your AV Equipment DVD Device Button PVR/VCR Device Button MY DVD PLAYER CODE

IS: _____ NOTE Refer to the instruction manual of the DVD Player for operation of the buttons exclusively for the DVD Player. MY VCR/PVR CODE IS: _____ NOTE Refer to the instruction manual of the PVR/VCR for operation of the buttons exclusively for the PVR/VCR.

PRECODED DVD buttons These buttons transmit the chosen precoded DVD codes : -Play, Stop, Pause, -Power -Number PAD RWD, FWD, Skip -Menu -Info FWD, Skip FWD -Cursor & -Channel Up & Down Select -Record -Exit Guide -Dash -Enter EXCLUSIVE TV buttons These buttons are for operating the TV : -Input -P. Mode -CC -Aspect -Vol Up & Down -Mute -E. Save 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, Stop, FWD, -Info -Last CH Skip FWD -Record -RWD, Skip RWD -FAV CH (Only for VCR) EXCLUSIVE TV buttons These buttons are for operating the TV : -Input -P. Mode -CC -Aspect -E.Save -Vol Up & Down -Mute 24 How to Use the Remote to Control your AV Equipment AVR Device Button 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.

PRECODED AVR buttons These buttons transmit the chosen precoded AVR codes : -Power -Cursor & Select -Vol Up & Down -Menu -Exit -Input -Enter EXCLUSIVE TV buttons These buttons are for operating the TV : -Aspect -P. Mode -CC -E.Save -Info -Channel Up & Down -Number PAD -Record -Mute -Play, Pause, Stop, RWD, Skip RWD, FWD, Skip FWD, 25 REMOTE CONTROL Remote Control Codes CABLE Brand A-MARK ABC ACCUPHASE ACORN ACTION ACTIVE ADB ARCHER BCC BRITISH TELECOM CENTURY DIGEO DIGI DIRECTOR DUMONT FOSGATE GE GENERAL INSTRUMENT GIBRALTER GOLDSTAR HITACHI INSIGHT JERROLD CODES 0008,0144 0237,0003,0008 0003 0237 0237 2092,2586 0237 0276 0003 CROSSDIGITAL 1109 DIRECTV 1377,0392,0566 0639,1639,1142 0247,0749,1749 0819,1856,1076 1108,0099,1109 1392,1414,1442 1443,1609,1640 0869 1505,1005,0775 NETWORK 1170,1775 SYSTEM DISHPRO 1505,1005,0775 1775 ECHOSTAR 1505,1005,0775 1170,1775 EXPRESSVU 0775,1775 FORTEC STAR 1821 FUNAI 1377 GE 0392,0566 GENERAL 0869 INSTRUMENTS GOI 0775,1775 HITACHI 0749,0819,1250 HOUSTON 0775 HTS 0775,1775 HUGHES 1142,0749,1749 NETWORK 1442,1443 SYSTEMS INNOVA 0099 JERROLD 0869 JVC 0775,1170,1775 LG 1414 MAGNAVOX 0722 MCINTOSH 0869 MITSUBISHI 0749 MOTOROLA 0869,0856 NETSAT 0099 NEXT LEVEL 0869 PANASONIC PANSAT PHILIPS PIONEER PRIMESTAR PROSCAN RADIOSHACK RCA SAMSUNG SKY SONY STAR CHOICE STAR TRAK THOMSON TIVO TOSHIBA ULTIMATE TV ULTRASAT UNIDEN VOOM ZENITH SAT/PVR COMBO BELL EXPRESSVU DIRECT TV 0247,0701 1807 1142,0749,1749 0775,0819,1076 0722,0099,1442 1142,1442 0869 0392,0566 0566,0775,0869 0392,0566,1142 0775,0855,0143 1392,1442 1377,1142,1276 1108,1109,1442 1609 0856,0099 0639,1639,1640 0869 0869 0392,0566 1142,1442,1443 0749,1749,0790 1392,1640 1806 0722 0869 0856,1856,1810 CODES 0775,1170 1377,0392,0639 1142,1076,0099 1392,1442,1443 1640 1505,0775 1505,0775 1505,0775,1170 0775 1142,1442,1443 1170 0869 1142,1442 0392 1392 1442 0639,1640 0869 1142,1442,1443 1810 CODES 0037,0240,0000 0278,0046 1972 0000 0060,0048,0039 0047,0104,0209 0065,0479 0037,0240,0000 0072 0278 0037,0000,0124 0041,0175 0209,0072,0278 1972 0039 0278 0035,0081 0000 0240 0035,0081 0000 0000,0072 0240 0035,0048,0039 0000,0104,0046 0479 BROKSONIC 0184,0121,0209 0002,0479 CALIX 0037 CANDLE 0037,0038 CANON 0035 CAPEHART 0002 CARRERA 0240 CARVER 0035,0081 CCE 0072,0278 CINERAL 0278 CITIZEN 0035,0037,0240 0000,0209,0278 0479 CLASSIC 0037 COLORTYME 0060,0035,0045 0278 COLT 0000,0072 CRAIG 0037,0047,0240 0072 CRITERION 0000,0072 CROSLEY 0035,0081,0000 CROWN 0072,0278 CURTIS MATHES 0060,0035,0162 0240,0000,0041 0278,0432 CYBERNEX 0240 CYBERPOWER 1972 DAEWOO 0037,0045,0278 0046 DAYTRON 0037,0278 DELL 1972 DENON 0081,0042 DERWENT 0041 DIRECTV 0739 DUAL 0000 DURABRAND 0039,0038 DYNATECH 0240,0000 ELECTROHOME 0060,0037,0240 0000,0043,0209 ELECTROPHONIC 0037 EMERALD 0184,0121 EMEREX 0032 EMERSON 0037,0184,0240 0000,0121,0043 0209,0002,0278 0479,1593 FISHER 0039,0047,0000 0104,0046 FUJI 0035,0033 FUJITSU 0000 FUNAI 0037,0000,0072 0278,1593 GARRARD 0000 GATEWAY 1972 GE 0060,0035,0048 0240,0000,0065 GEMINI 0060 GENEXXA 0037,0000,0278 GO VIDEO 0240,0432,0526 0614 GOLDSTAR 0035,0037,0039 0000,0278,0038 GOODMAN'S 0037,0081,0000 0072,0278 GRADIENTE 0000 GRANADA 0081,0042 GRUNDIG 0081 HARLEY DAVISON 0000 HARMAN/ 0081,0038 KARDON HARVARD 0072 HARWOOD 0072 HEADQUARTER 0046 HEWLETT 1972 PACKARD HI-Q 0035,0047,0000 HITACHI 0035,0037,0045 0000,0042,0041 0065,0105 HOWARD 1972 COMPUTERS HP 1972 HUGHES 0042,0739 NETWORK SYSTEMS HUMAX 0739,1797,1988 HUSH 1972 HYTEK 0047,0000,0072 IBUYPOWER 1972 ADVENTURA ADYSON AIKO AIWA AKAI ALBA ALIENWARE ALLEGRO AMERICA ACTION AMERICAN HIGH AMSTRAD ASHA ASTRA AUDIOVOX AVIS BEAUMARK BELL & HOWELL INSTANT REPLAY IIT NOKIA JANEIL JENSEN JVC KEC KENWOOD 0035 0240,0041 0240 0067,0041 0067,0041,1162 0037,0278 0067,0041,0038 0046 KLH 0072 KODAK 0035,0037 KTV 0000 LG 0037,0240,0038 1037 LINKSYS 1972 LLOYD'S 0240,0000,0072 0038 LOEWE 0081 LOGIK 0240,0000,0072 LUMATRON 0278 LUXOR 0046 LXI 0037,0000,0042 0067 M ELECTRONIC 0240 MAGNASONIC 0037,0240,0000 0072,0278 MAGNAVOX 0035,0037,0048 0039,0081,0240 0000,0563,0618 1593 MAGNIN 0240 MARANTZ 0035,0081,0038 MARTA 0037 MATSUI 0037,0209 MATSUSHITA 0035,0162,0081 1162 MEDIA CENTER 1972 PC MEI 0035 MEMOREX 0035,0162,0037 0048,0039,0047 0240,0000,0104 0209,0072,0278 0046,0479,1037 1162 METZ 0037 MGA 0060,0240,0043 MGN 0240 TECHNOLOGY MICROSOFT 1972 MIDLAND 0240 MIND 1972 MINOLTA 0042,0105 MITSUBISHI 0060,0048,0047 0000,0042,0067 0043,0041 MOTOROLA 0035,0048 MOVIE WALKER 0072 MTC 0240,0000,0072 MTX 0000 MULTITECH 0039,0000,0072 NAD 0240,0104 NEC 0104,0067,0041 0038 NEW TECH 0072 NIKKO 0037,0278 NIKKODO

0037,0278 NISHI 0240 NIVEUS MEDIA 1972 NOBLEX 0240 NORTHGATE 1972 OLYMPUS 0035,0162,0104 ONKYO 0222 OPTIMUS 1062,0035,0162
0007,0048,0047 0240,0000,0104 0432,1048,1162 ORION 0184,0240,0000 0104,0121,0209 0002,0278,0479 PANAMA 0035 PANASONIC 1062,0035,0162
0000,0225,0614 0616,1162 PENNEY 0035,0162,0037 0047,0081,0240 0000,0042,0067 0038 PENTAX 0042,0065,0105 PHILCO 0035,0081,0000 0209,0479
PHILIPS 0035,0162,0048 0081,0045,0000 0209,0616,0618 0739,1081,1181 PILOT 0037 PIONEER 0162,0081,0042 0067,1337 POLK AUDIO 0081
PORTLAND 0278 PRESIDIAN 1593 PROFITRONIC 0240 PROSCAN 0060 PROTEC 0000,0072 PROTECH 0072 PULSAR 0039,0240,0278 PULSER 0240
QUARTER 0046 0035,0047,0046 0035,0162,0002 1162 RADIOSHACK 0035,0162,0037 0048,0047,0240 0000,0104,0046 1037,1162 RADIX 0037 RANDEX
0037 RCA 0060,0035,0048 0240,0045,0000 0042,0065,0105 0880 REALISTIC 0035,0162,0037 0048,0047,0240 0000,0104,0121 0278,0046,0065 1162
REPLAY TV 0614,0616 RICAVISION 1972 RUNCO 0039 SAMSUNG 0060,0240,0045 0000,0038,0432 0739 SAMTRON 0240 SANKY 0048,0039 SANSUI
0240,0000,0067 0209,0041,0072 0002,0479 SANYO 0047,0240,0000 0104,0046,0159 0479 SCOTT 0184,0045,0121 0043 SEARS 0060,0035,0162
0037,0048,0039 0047,0033,0045 0000,0042,0104 0067,0043,0209 0041,0072,0046 0065,0105 SHARP 0048,0047,0032 0000,0065,0848 SHINTOM
0039,0240,0000 0072 SHOGUN 0240 SIEMENS 0037,0104 SIGNATURE 0060,0035,0037 0048,0000,0046 0065,0479 SINGER 0037,0240,0072 SONIC
BLUE 0614,0616 SONOGRAPHIE 0046 SONY 0035,0047,0032 0033,0000,0067 0046,0636,1032 1972 SOUNDMASTER 0000 STACK 9 1972 STS 0042,0105
SV2000 0000,0072 SVA 0000 SYLVANIA 0035,0081,0000 0043,1593 SYMPHONIC 0240,0000,0002 1593 SYSTEMAX 1972 TAGAR SYSTEMS 1972 TANDY
0000,0104 TASHIKO 0037 TATUNG 0048,0081,0000 0067,0041 TEAC 0000,0067,0041 TECHNICS 0035,0162,0037 0000 TEKNIKA 0035,0037,0000
TELECODER 0240 TELEFUNKEN 0041 TEVION 0479 THOMAS 0000,0002 THOMSON 0060,0041 TISONIC 0278 TIVO 0618,0636,0739 1337 TMK
0240,0000 TNIX 0037 TOCOM 0240 TOSHIBA 0240,0045,0000 0043,0209,0041 1008,1972,1988 TOSONIC 0278 TOTEVISION 0037,0240 TOUCH 1972
TRIX 0037 ULTRA 0045,0278 UNITECH 0240 VECTOR 0045 VECTOR 0184,0038 RESEARCH VEXTRA 0072 VICTOR 0067,0041 VIDEO 0045
CONCEPTS VIDEOMAGIC 0037 VIDEOSONIC 0240,0000,0072 VIEWSONIC 1972 VILLAIN 0000 VOODOO 1972 QUARTZ QUASAR 0008 1187,2187
0637 0476 0637 0276 0144 0476,0810,0276 0003 0003 0144 0003,0008 0476,0810 0476,0810,0276 0003 MEMOREX 0000 MITSUBISHI 0003 MOTOROLA
1376,0476,0810 0276,1187,1254 1106 NOVA VISION 0008 NOVAPLEX 0008 NSC 0637 PACE 1877,0877,0237 0008 PANASONIC 0000,0008,0144
PANTHER 0637 PARAGON 0000,0008,0525 PENNEY 0000,0637 PHILIPS 1305,0317 PIONEER 1877,0877,0144 0533 PULSAR 0000 QUASAR 0000
REGAL 0276 RUNCO 0000 SAMSUNG 0003,0144 SASKTEL 1737 SCIENTIFIC 1877,0877,0477 ATLANTA 0237,0003,0000 0008 SONY 1006 SPRUCER
0144 STARCOM 0003 STORM 0637 SUPERCABLE 0276 TORX 0003 TOSHIBA 0000 UNITED CABLE 0276,0003 US 0276,0003,0008 ELECTRONICS
VIDEOWAY 0000 ZENITH 0000,0525 CABLE/PVR COMBO DIGEO GENERAL INSTRUMENTS JERROLD MOTOROLA PACE PIONEER SASKTEL
SCIENTIFIC ATLANTA SONY SUPERCABLE SATELLITE BRAND (Set Top Box) BELL EXPRESSVU CHAPARRAL COOLSAT CODES 1187,2187 0810
0810 1376,0810,1187 1106 1877,0237 1877,0877 1737 1877,0877 1006 0276 CODES 0775,1170 0216 1806,2147 DISH NETWORK SYSTEM DISH PRO
ECHOSTAR EXPRESSVU HUGHES NETWORK SYSTEMS JVC MOTOROLA PHILIPS PROSCAN RCA SAMSUNG SONY STAR CHOICE TIVO ZENITH
VCR Brand A-MARK ABS ACCURIAN ADMIRAL 26 Remote Control Codes WARDS 0060,0035,0037 0048,0047,0081 0033,0240,0045 0000,0042,0043
0041,0072,0038 0479,0065,0046 WHITE 0000,0209,0072 WESTINGHOUSE 0278,0479 WORLD 0209,0002,0479 XR-100 0035,0240,0000 0072 YAMAHA
0041,0038 ZENITH 0037,0039,0033 0000,0209,0041 0278,0479,1139 ZT GROUP 1972 PVR Brand ABS ALIENWARE CYBERPOWER DELL DIRECTV
GATEWAY GO VIDEO HEWLETT PACKARD HOWARD COMPUTERS HP HUGHES NETWORK SYSTEMS HUMAX HUSH IBUYPOWER LINKSYS
MEDIA CENTER PC MICROSOFT MIND NIVEUS MEDIA NORTHGATE PANASONIC PHILIPS PIONEER RCA REPLAY TV SAMSUNG SONIC BLUE
SONY STACK 9 SYSTEMAX TAGAR SYSTEMS TIVO TOSHIBA TOUCH VIEWSONIC VOODOO ZT GROUP DBS/PVR COMBO DIRECTV HUGHES
NETWORK SYSTEMS PHILIPS SAMSUNG TIVO DVD/PVR COMBO HUMAX PIONEER RCA SYLVANIA TIVO TOSHIBA DVD Brand 3D LAB
ACCURIAN ACOUSTIC SOLUTIONS ADCOM AFREY AIWA AKAI ALBA ALCO ALLEGRO CODES 1972 1972 1972 1972 0739 1972 0614 1972 1972
1972 0739 0739,1797,1988 1972 192 1972 1972 1972 1972 0614,0616 0618,0739 1337 0880 0614,0616 0739 0614,0616 0636,1972 1972
1972 0618,0636,0739 1337 1008,1972,1988 1972 1972 1972 1972 CODES 0739 0739 0739 0739 0739 CODES 1797,1988 1337 0880 0000 1337 1008,1988
CODES 0503,0539 0675,1416 0730 1094 0698 0641 0695,0705,0770 1089 0672 0790 0869 AMPHION 0872 MEDIA WORKS AMW 0872 APEX DIGITAL
0533,0672,1020 1056,1061 ARGO 1023 ASPIRE 1168 DIGITAL AUDIOVOX 0790 AWA 0730 B&K 0655,0662 BBK 1224 BEL CANTO 1571 DESIGN
BLUE PARADE 0571 BLUE SKY 0695 BROKSONIC 0695 CALIFORNIA 0490 AUDIO LABS CELESTIAL 1020 CENTREX 0672 CINEA 0831 CINEVISION
0876,0833,0869 CITIZEN 1003,0695,1277 1587,2116 CLAIRTONE 0571 COBY 0778,0852,1077 1086,1107,1165 1177,1351 CRAIG 0831 CREATIVE
0503,0539 CURTIS 1087 MATHES CYBERHOME 0816,0874,1023 1024,1129,1502 1537 CYTRON 0705 DAEWOO 0784,0705,0770 0833,0869,1169
1172,1234,1242 DANSAI 0770 DAYTEK 0872 DECCA 0770 DENON 0490,0634 DENVER 0778 DIGITREX 0672 DISNEY 0675,1270 DI VIDO 0705 DUAL
0675 DURABRAND 1127 DVD2000 0521 EMERSON 1003,2116 ENTERPRISE 0591,0675 ENTIVO 0503,0539 ENZER 0770 FISHER 1919 FUNAI 0675
GATEWAY 1073,1077,1158 GE 0522,0815 GO VIDEO 0573,0744,0715 0741,0783,0833 0869,1044,1075 1099,1144,1158 1304,1730 GOLDSTAR 0741,0869
GOODMANS 0790 GPX 0769 GRADIENTE 0490 GRUNDIG 0539,0705 HARMAN/ 0582,0702 KARDON HELLO KITTY 0831 HITACHI 0573,0664,1919
HITEKER 0672 INSIGNIA 2095 INTEGRA 0571,0627 IRT 0783 JBL 0702 JMB 0695 JSI 1423 JVC 0558,0623,0867 1164 JWJN 1049,1051 KAWASAKI 0790
KENWOOD 0490,0534 KLH 0790,1020,1149 KLOSS 0533 KONKA 0711,0721 KOSS 0769,1061,1423 LASONIC 0627 LECSON 1533 LENOXX 1127 LG
0591,0741,0869 1058,1158,1416 1440 0741 0783 0675 0503,0539,0646 0675,1354,1506 MALATA 1159 MARANTZ 0503,0539,0646 0675,1354,1506
MCINTOSH 1533,1273 MEMOREX 0695,0831,1270 2213 MICROSOFT 0522,2083 MINATO 0752 MITSUBISHI 1521,0521 MUSTEK 0730 MYRAD 0894
NAD 0741 NAIKO 0770 NEC 0785,0869 NEXXTECH 1402 NINTAUS 1051 NORCENT 1003,0872,1107 1265 ONKYO 0503,0627,1769 OPPO
0575,1224,1525 2185 OPTIMUS 0571 PALSONIC 0672,0852 PANASONIC 0503,0490,0571 0703,1641,1762 PHILCO 0675 PHILIPS 0503,0539,0646
0675,1267,1340 1354,2056,2084 PIANODISC 1024 PIONEER 0525,0571,0142 0631,1571 POLAROID 1020,1061,1086 POLK AUDIO 0539 PORTLAND
0770 PRESIDIAN 0675 PRIMA 2126,2127 PROCEED 0672 PROSCAN 0522 PROVISION 0778 RADIONETTE 0741 RADIOSHACK 0571 RCA
0522,0571,0790 0822,1769 REALISTIC 0571 REOC 0752 RIO 0869 RJTECH 1360 ROTEL 0623,1178 SAMPO 0698,0752 SAMSUNG 0490,0573,0744
0199,0820,1044 1075,2069 SANSUI 0695 SANYO 0675,0695,0873 1919 SCHNEIDER 0783 SCHWAIGER 0752 SENSORY SCIENCE 1158 SHARP
0630,0675,0752 1256 SHERWOOD 0633,0770,1043 1077 SHINSONIC 0533 SLIM ART 0784 SM ELECTRONIC 0730 SONIC BLUE 0573,0715,0783
0869,1099 SONY 0533,1533,0864 1033,1070,1431 1516,1536 SYLVANIA 0675 SYMPHONIC 0675 TAG MCLAREN 0894 TATUNG 0770 TEAC 0571,0790
0490,0703 TECHNICS 0770 TEKNIKA 0730 TECHSONIC 0571 THETA DIGITAL 0522 THOMSON 1503 TIVO 0503,0573,0539 TOSHIBA
0695,1154,1503 1608,1769 0800,0803 TREDEX 0770 UNIMAX 0730 UNITED 0591 UNIVERSUM URBAN CONCEPTS 0503,0539 1064,1226 V 0790
VENTURER 1064,1226 VIZIO LOEWEL LOGIX MAGNASONIC MAGNAVOX LITEON VOCOPRO XBOX YAMAHA YAMAKAWA ZENITH ZEUS ZOECE
BLU-RAY DISC LG PANASONIC PHILIPS PIONEER SAMSUNG SONY DVD/PVR COMBO GO VIDEO PANASONIC PHILIPS PIONEER RCA SHARP
SONY SYLVANIA TOSHIBA HD-DVD LG MICROSOFT ONKYO RCA TOSHIBA XBOX 1360 0522,2083 0490,0539,0545 0497 0872 0503,0591,0741 0869
0784 1265 CODES 0741 1641 2084 0142 0199 1516 CODES 1730 0490 1340 0631 0522 1256 1033,1070,1536 0675 1503 CODES 0741 2083 1769 1769
1769 2083 1023,1609,1390 1609,0121 0189 1304,1500,1868 2165 1189,0189 1913 1602,1811 1058,1441,1258 1759,1622,1406 1558,1658,1758 1858
SOUNDESIGN 0670 STEREOPHONICS 1023 TEAC 1390 TECHNICS 1308,1518,1633 THORENS 1189 TOSHIBA 0842,1788 VENTURER 1390 WARDS
0189,0014 XM 1406,1414 YAMAHA 1023,0176,1176 1276,1331,1815 2061 AUDIO AMPLIFIER Brand ADCOM BOSE CARVER CARY AUDIO DESIGN

CLASSE FLEXTRONICS HALCRO HARMAN/ KARDON KRELL LEFT COAST LEXICON MARANTZ MARK LEVINSON PARASOUND PHILIPS POLK
AUDIO PRIMARE YAMAHA CODES 0577,1100 0674 0892 1879 1461 1879 1934 0892 1837 0892 1145,1802 0892 1483 1934 0892 0892 1395 0354 RCA
REALISTIC REVOX SAMSUNG SANGEAN SANSUI SHERWOOD SIRIUS SONY REMOTE CONTROL AUDIO CODES RECEIVER Brand AIWA
1405,0189,0121 1243,1388,1641 ALCO 1390 ANAM 1609 APEX DIGITAL 1774 ARCAM 1189 AUDIOTRONIC 1189 AUDIOVOX 1390 B&K 0820,0840
BOSE 0639,1253,1933 BRIX 1602 CAIRN 0189 CARVER 1189,0189,0121 CURTIS MATHES 0014 DELPHI 1414 DENON 1360,0121,1142 1306
ELECTROHOME 2026 GRUNDIG 0189 HARMAN/ 0189,0891,1304 KARDON 1306 HITACHI 0228 INSIGNIA 1030,2169 INTEGRA 0842,1298,1320 1805
JBL 1306 JVC 1058,1374,1495 1811 KAWASAKI 1390 KENWOOD 1570,1569 KLH 1390,1428 KOSS 1497 LG 2197 LINN 0189 LIQUID VIDEO 1497
MAGNAVOX 1189,1269,0189 1266,1514 MARANTZ 1189,1269,0189 0891 MICROMEGA 1189,0189 MITSUBISHI 1393 MYRAD 1189 NAKAMICHI
0097,1555 ONKYO 0842,1298,1320 1805 OPTIMUS 1023,0014,0121 0670 ORITRON 1497 PANASONIC 1308,1518,1288 1316,1548,1633 1763,1764,2967
PHILIPS 1189,1269,0189 0891,1266 PIONEER 1023,0014,0630 1384,1935 POLK AUDIO 0189,1414 RADIO SHACK 1609 27 On-Screen Display 1.



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