# LCD REAR PROJECTION TELEVISION Operating Guide for 42V710, 50V710, 60V710 42V715, 50V715, 60V715

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As an ENERGY STAR<sup>®</sup> Partner, Hitachi, Ltd. has determined that this product meets the ENERGY STAR<sup>®</sup> guidelines for energy efficiency.



### SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR HITACHI LCD REAR PROJECTION TELEVISION

Our reputation has been built on the quality, performance, and ease of service of HITACHI 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 television.

Please fill out your warranty card and mail it to HITACHI. This will enable HITACHI to notify you promptly in the improbable event that a safety problem should be discovered in your product model.

Follow all warnings and instructions marked on this television.





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 persons.

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



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

**WARNING:** • TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

- THE TELEVISION SHOULD NOT BE EXPOSED TO DRIPPING OR SPLASHING AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THE TELEVISION.
- NOTE: There are no user serviceable parts inside the television.
  Model and serial numbers are indicated on back side of the television.

**CAUTION:** Adjust only those controls that are covered in the instructions, as improper changes or modifications not expressly approved by HITACHI could void the user's authority to operate the television.

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

### POWER SOURCE

THIS TELEVISION IS DESIGNED TO OPERATE ON 120 VOLTS 60Hz, AC CURRENT. INSERT THE POWER CORD INTO A 120 VOLT 60Hz OUTLET.

TO PREVENT ELECTRIC SHOCK, DO NOT USE THE TELEVISION'S (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER OUTLET UNLESS THE BLADES AND GROUND TERMI-NAL CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NEVER CONNECT THE TELEVISION TO 50Hz, DIRECT CURRENT, OR ANYTHING OTHER THAN THE SPECIFIED VOLTAGE.

**NOTE:** This television receiver will display television closed captioning, (**CC** or **C**), in accordance with paragraph 15.119 of the FCC rules.

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

# **IMPORTANT SAFETY INSTRUCTIONS**



### Read before operating equipment

Follow all warnings and instructions marked on this television.

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use the attachments/accessories specified by the manufacturer.



12.

Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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



Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Do not place any objects on the top of the television which may fall or cause a child to climb to retrieve the objects.

This product contains lead and a lamp that contains mercury. Dispose of this product and its lamp in accordance with
applicable environmental laws. For lamp recycling and disposal information, go to www.lamprecycle.org. For
product recycling and disposal information, contact your local government agency or the Electronic Industries
Alliance at www.eiae.org (in the US) or the Electronic Product Stewardship Canada at www.epsc.ca (in Canada).
For more information, call "1-800-HITACHI."

### 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 digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A CableCARD provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services such as video-on-demand, a cable operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable company.
- 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 by Macrovision Corporation, and is intended for home and other limited consumer uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

REMOTE CONTROL BATTERIES OPTIONAL LCD REAR PTV STAND ("AA") (NOT INCLUDED, ORDER SEPARATELY) (D) TV DVD CBL STB PVR AMP 00 ۲ Ő LCD TV MODEL LCD STAND/PART NO 42V710 SP42W / H520449 42V715 SPX42W / QJ01541 00(3)50V710 SP50WS / QJ01601 (4) (5) (6) 50V715 SPX50WT / QJ01603 0 (1) (1) 60V710 SP60WS / QJ01602 000 60V715 SPX60WT / QJ01604 HITACHI CUSTOM HITACHI TELEVISION STAND Excellent for VCR and video tape storage. 1. 2

CAUTION:	1.	This SP42W LCD stand for use only with Hitachi 42V710. Use with other apparatus is capable of resulting in instability causing possible injury.
$\wedge$	2.	
<u> / •                                  </u>	3.	
	4.	This SPX50WT LCD stand for use only with Hitachi 50V715. Use with other apparatus is capable of resulting in instability causing possible injury.
	5.	This SP60WS LCD stand for use only with Hitachi 60V710. Use with other apparatus is capable of resulting in instability causing possible injury.
	6.	

- 1. Remote Control Unit CLU-3842WL (Part No. HL02062) or CLU-3844WL (Part No. HL02064).
- 2. Two "AA" size, 1.5V batteries (For Remote Control Unit).

### REMOTE CONTROL BATTERY INSTALLATION AND REPLACEMENT

- 1. Open the battery cover of the remote control by pushing the notched part of the cover with your fingers and pulling the cover off.
- 2. Insert two new "AA" size batteries for the remote control. When replacing old batteries, push them towards the springs and lift them out.
- 3. Match the batteries to the (+) and (-) marks in the battery compartment.
- 4. Replace the cover.



**CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace with the same or equivalent type.

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# HOW TO SET UP YOUR NEW HITACHI LCD REAR PTV

### ANTENNA

Unless your LCD Rear PTV is connected to a cable TV system or to a centralized antenna system, a good outdoor 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.

### LOCATION

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. Also, be sure that the location selected allows a free flow of air to and from the perforated back cover of the set.

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.

When installing your LCD Rear PTV against a wall, keep it at least 10 cm (4 inches) from the wall.

### VIEWING

The major benefit of the HITACHI LCD Rear PTV is its large viewing screen. To see this large screen at its best, test various locations in the room to find the optimum spot for viewing.

The best picture is seen by sitting directly in front of the TV and about 10 to 18 feet from the screen. Picture brightness decreases as the viewer moves to the left and right of the receiver.

During daylight hours, reflections from outside light may appear on the screen. If so, drapes or screens can be used to reduce the reflection or the TV can be located in a different section of the room.

If the TV's audio output will be connected to a Hi-Fi system's external speakers, the best audio performance will be obtained by placing the speakers equidistant from each side of the receiver cabinet and as close as possible to the height of the picture screen center. For best stereo separation, place the external speakers at least four feet from the side of the TV, place the surround speakers to the side or behind the viewing area. Differences in room sizes and acoustical environments will require some experimentation with speaker placement for best performance.



### **IMPORTANT NOTES:**

- Since LCD Rear PTV incorporates a high pressure lamp to display an image, it may take about one minute for the picture to become stable, after the power has been turned on. After extended use, the picture may darken, the color may look unusual, or the lamp "goes out," (burns out). You may hear a "pop" sound when the lamp "goes out." These are common characteristics of the lamp, and should not be considered defective.
- 2. LCD Rear PTV incorporates an advanced cooling fan system to prevent from overheating. If you hear the cooling fan, it should not be considered defective.
- 3. If you hear a "cracking" sound from the TV cabinet, it is due to the TV's cabinet expanding and contracting due to room temperature changes. It has no effect on the TV's functions.
- 4. The LCD Rear PTV cabinet is constructed with all plastic. Make sure to place it on a flat surface. An uneven surface might warp the cabinet and reduce the picture quality.



# HOOK-UP CABLES AND CONNECTORS

Most video/audio connections between components can be made with shielded video and audio cables that have phono connectors. For best performance, video cables should use 75-Ohm coaxial shielded wire. Cables can be purchased from most stores that sell audio/video products. Below are illustrations and names of common connectors. Before purchasing any cables, be sure of the output and input connector types required by the various components and the length of each cable.



### 300-Ohm Twin Lead Connector

This outdoor antenna cable must be connected to an antenna adapter (300-Ohm to 75-Ohm).



### Phono Connector

Used on all standard video and audio cables which connect to inputs and outputs located on the television's rear jack panel and front control panel.



### **D-SUB MINI 9-Pin Cable**

This cable is used to connect to the RS232C input located on the rear panel so you can control some of your TV functions from an external home control system.



### **HDMI** Cable

This cable is used to connect your external devices such as Set-Top-Boxes or DVD players equipped with an HDMI output connection to the TV's HDMI input.

### ANTENNA CONNECTIONS TO REAR JACK PANEL

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

When using a 75-Ohm coaxial cable system, connect CATV coaxial cable to the ANT A (75-Ohm) terminal. If you have an antenna, connect the coaxial cable to the ANT B terminal.

### 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.

### When both VHF and UHF antennas are connected

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



### "F" Type 75-Ohm Coaxial Antenna Connector

For connecting RF signals (antenna or cable TV) to the antenna jack on the television.



### S-Video (Super Video) Connector

This connector is used on camcorders, VCRs and laser- disc players with an S-Video feature in place of the standard video cable to produce a high quality picture.



### **Optical Cable**

This cable is used to connect to an audio amplifier with an Optical Audio In jack. Use this cable for the best sound quality.



### USB Cable

This cable is used to connect your digital camera to the Photo Input.







# SIDE/FRONT PANEL CONTROLS



### 1 MENU/SELECT 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 SELECT button when in MENU mode.

### 2 INPUT/EXIT button

Press this button to display the input menu, Ant A/B, INPUT:1,2,3,4,5 or Photo Input. This button also serves as the EXIT button when in MENU mode.

### (3) 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 ( $\forall$ ) and up ( $\blacktriangle$ ) buttons when in MENU mode.

### 4 VOLUME level

Press these buttons for your desired sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left ( $\blacktriangleleft$ ) and right ( $\blacktriangleright$ ) buttons when in MENU mode. When the TV power is turned OFF at a volume level 31 or greater, the volume level will default to 30 when the TV is turned ON. However, if it is set to a level 30 or less, the volume level will be at the level it was set when the TV is turned ON.

### (5) SIDE INPUT JACKS (INPUT 5)

Use these audio/video jacks for a quick hook-up from a camcorder or VCR to instantly view your favorite show or new recording. Press the INPUT/EXIT button on the front control panel until VIDEO: 5 appears in the top right corner of the TV screen. If you have mono sound, insert the audio cable into the left audio jack.

### (6) PHOTO INPUT

Insert USB cable from your Digital Camera to view your digital still pictures (see pages 9 and 25-27).

### (7) IR RECEIVER sensor

The screen area acts as the IR receiver (remote sensor). When using the remote control, point it towards the screen for best response.

### 8 POWER button

Press this button to turn the TV on or off.



# SIDE/FRONT PANEL CONTROLS

### (9) POWER light

This light is on during normal operation.

Light Blinking Slowly (2 seconds): television lamp is cooling down. It takes 12-15 seconds to warm up and about 2 minutes to cool down.

### NOTES:

1.	INDICATOR	INDICATION	MEANING	ACTION
		LIGHT ON	NO LAMP LIGHT or BROKEN LAMP	Need to replace if LAMP still does not light by "Power On" again.
	LAMP LED	BLINKING	WRONG LAMP UNIT ASSEMBLY / LAMP DOOR OPEN	Check assembly condition of LAMP UNIT
	TEMP LED	LIGHT ON	HT ON Too hot inside the OPTIC unit Call for Servic	
	LED	BLINKING	COOLING FAN STOPPED	
	POWER	LIGHT ON	NORMAL OPERATION	
		SHORT BLINKING	COOL DOWN	
		INTERMEDIATE BLINKING	TV CAN'T RECEIVE ANY REMOTE CONTROL BUTTONS BY POWER OFF SEQENCE	
		LONG BLINKING	TV EXECUTING THE INITIAL DIGITAL TUNING	

- 2. If the LAMP, TEMP, and POWER LED are blinking in the order below, the television is warming up. POWER →TEMP → LAMP
- 3. Your Hitachi LCD Rear Projection Television may appear to be OFF when it is set to input 1 ~ input 5 and the video signal is not received from the input jacks. Please make sure the Blue Power light indicator is not lit (OFF) when you are not watching for long lasting performance.
- 4. Your Hitachi LCD Rear Projection Television has an internal lamp that lights up the TV screen. Make sure to turn off the Power when you do not watch the LCD Rear Projection Television for longer lamp life.

### (10) TEMP indicator

This light is off during normal operation.

If this indicator is lit, the optic unit is too hot. If this indicator is blinking, the cooling fan has stopped. Please call service.

### 1 LAMP indicator - NORMAL OPERATION INDICATOR IS OFF

If light is lit, the lamp has failed. See page 69-72 for lamp replacement procedure. Consult your Hitachi dealer for proper part. If light is blinking, lamp cover is not assembled securely after replacement.

### **IMPORTANT NOTES:**

A small number of missing, discolored, or lit all the time dots or pixels is characteristic of TFT LCD technology due to the manufacturing process irrespective of manufacturer.

# SIDE/FRONT PANEL JACKS AND CONNECTORS



FIRST TIME USE

The side or front panel jacks are provided as a convenience to allow you to easily connect a camcorder or VCR as shown in the following examples:



- **NOTE:** 1. Completely insert connection cord plugs when connecting to front panel jacks. If you do not, the played back picture may be abnormal.
  - 2. If you have a S-VHS VCR, use the S-INPUT cable in place of the standard video cable.
  - 3. If you have a mono VCR, insert the audio cable into the left audio jack of your TV.

### PHOTO INPUT

The side or front panel Photo Input Jack is provided to view digital still pictures from your digital camera using a USB cable and displaying them on the TV screen.



First, connect your digital camera to the Photo Input using a USB cable. Turn on the power of your digital camera. Press the INPUTS button and select Photo Input (see pages 25-27).



### 1) Antenna Input

ANT A- A 75-Ohm RF antenna or CATV (Cable TV) input. ANT A can be displayed as a main picture or sub-picture.
 ANT B- A 75-Ohm RF antenna input. ANT B can only be displayed as a main picture. ANT B cannot be displayed as a sub-picture.

NOTE: You may ask your local cable company whether DTV services are av	ailable.
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### (2) Audio/Video Inputs 1, 2, 3 and 4

By using the INPUTS button and CURSOR PAD of the remote control you can select each video source. Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laserdisc players, DVD players etc. (If you have mono sound, insert the audio cable into the left audio jack.)

**NOTE:** You may use VIDEO or S-VIDEO inputs to connect to INPUT 3 and 4, but only one of these inputs may be used at a time.

### (3) MONITOR OUT

These jacks provide fixed or variable audio and video signals which are used for recording. Use the S-VIDEO Output for high quality video output (see page 67).

### (4) S-VIDEO Inputs 3 and 4

Inputs 3 and 4 provide S-VIDEO (Super Video) jacks for connecting equipment with S-VIDEO output capability.

### (5) Component: Y-P<sub>B</sub>P<sub>R</sub> Inputs

Inputs 1 and 2 provide Y-P<sub>B</sub>P<sub>R</sub> jacks for connecting equipment with this capability, such as a DVD player or Set Top Box. You may use composite video signal for both inputs.

NOTES: 1. Do not connect composite VIDEO and S-VIDEO to Input 3, 4 or 5 at the same time. S-VIDEO has priority over VIDEO input.

- 2. 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<sub>B</sub> input and the components R-Y output to the TV's P<sub>B</sub> input.
- 3. Your component outputs may be labeled Y-C<sub>B</sub>C<sub>R</sub>. In this case, connect the component C<sub>B</sub> output to the TV's P<sub>B</sub> input and the component C<sub>B</sub> output to the TV's P<sub>B</sub> input.
- 4. It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PBPR inputs (see page 45).
- 5. To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR jacks.
- 6. Input 1 and Input 2 (Y/VIDEO) can be used for composite video and component video input.



### (6) HDMI1 (High Definition Multimedia Interface) (INPUT 1)

About HDMI

HDMI is the next-generation all digital interface for consumer electronics. HDMI enables the secure distribution of uncompressed high-definition video and multi-channel 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 guality from the source all the way to your television screen

Use the HDMI input for your external devices such as Set-Top-Boxes or DVD players equipped with an HDMI output connection. Homi

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

- NOTES: 1. The HDMI input is not intended for use with personal computers.
  - 2. Only DTV formats such as 1080i, 720p, 480i and 480p are available for HDMI input.

### (7)**Optical Out (Digital Audio)**

This jack provides Digital Audio Output for your audio device that is Dolby® Digital 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.

### (8) Upgrade Card

This card slot is for future software upgrades. Hitachi will notify you if a software upgrade is required for your TV. In order to receive written notification, please complete and return your warranty card.

### (9) RS232C Input

For use with third party home Audio/Video control systems which are commercially available. Please see your dealer regarding these "non Hitachi" home control systems (see page 67 to activate this input).

### (10) TV AS CENTER (INPUTS 1-4)

These jacks are for stereo amplifiers with center signal output capability. This feature allows the TV speakers to be used as a center speaker. The TV must be set as a center channel by selecting "TV as Center" on the Internal Speakers Settings of the Audio Menu (see page 49).



### (11) CableCARD Slot

This slot is for the CableCARD that will be provided by your local cable operator to gain access to chosen cable channels. The CableCARD will allow you to tune digital and high definition cable channels. Please call your local cable operator if this service is available before requesting a CableCARD (also known as Point of Deployment (POD) module).

Connect a coaxial cable to ANT A terminal of the Rear Panel Jacks. Insert the CableCARD into the slot (Top of card should be facing right as shown).



If the CableCARD is properly installed or not installed, the TV will display the following respective screens.



After the CableCARD is installed, wait until the second screen below appears. The third screen below will appear if a channel is not authorized for viewing. Press the EXIT button to exit the second screen.



Please take note of all information on the screen (you will provide this information to your cable operator). Call your cable operator and give them the information from the card to start your cable service.

0+0+0+0+0+0	NOTES:	1.	A digital cable subscription is required.
DAMONDA		2.	Antenna B will not be available when CableCARD is inserted.
01010101010		3.	Do not insert a PCMCIA card into the CableCARD slot.

### **REAR PANEL CONNECTIONS**

**TYPICAL FULL-FEATURE SETUP** 



NOTES: 1.

- 1. Connect only 1 component to each input jack.
- Follow connections that pertain to your personal entertainment system.
   Inputs 1 and 2 can accomodate Composite and Component video signals.
- Cables are not included with the purchase of this TV, except when noted as "provided".



- S-VIDEO, HDMI and component connections are provided for high performance laserdisc players, VCRs etc. that have this feature. Use these connections in place of the standard video connection if your device has this feature.
- FIRST TIME USE If your device has only one audio output (mono sound), connect it to the left audio jack on the television.
  - Refer to the operating guide of your other electronic equipment for additional information on connecting your hook-up cables.
  - A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output (INPUT: 3 in the example on page 13). Refer to your VCR operating guide for more information on line input-output connections.
  - You may use VIDEO or S-VIDEO inputs to connect to Input 3, Input 4 or Input 5, but only one of these may be used at a time.
  - Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack.
  - COMPONENT: Y-P<sub>B</sub>P<sub>B</sub> (Input 1 & 2) connections are provided for high performance components, such as DVD players and settop-boxes. Use these connections in place of the standard video connection if your device has this feature. Input 1 and 2 accepts both composite and component video signals.
  - 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-C<sub>B</sub>C<sub>B</sub>. In this case, connect the components C<sub>B</sub> output to the TV's P<sub>B</sub> input and the components C<sub>R</sub> output to the TV's P<sub>R</sub> input.
  - You may use composite video signal for Input 1~Input 5.
  - It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PBPB inputs. (See page 45)
  - To ensure no copyright infringement, the MONITOR OUT output may be abnormal, when using the Y-PBPR jacks.
  - When using HDMI or DVI input from a Set-Top-Box, it is recommended to use a 1080i or 720p input signal.

# **CONNECTING EXTERNAL AUDIO DEVICES**



FIRST TIME USE

Match the numbers below to the diagram for speaker placement.

- (1) The television's internal speakers will act as center speaker (select Audio-Internal Speakers-TV as Center see page 49).
- (2) These FRONT left and right speakers are connected to the FRONT output of a separate audio amplifier.
- (3) These REAR left and right speakers are connected to the REAR output of a separate audio amplifier.
- (4) This subwoofer is connected to the LFE/Sub Out output of a separate audio amplifier.

REAR PANEL OF TELEVISION



NOTES: 1. The Optical Out (Digital Audio) provides a fixed digital audio output to your external component such as an A/V receiver with optical input capability. The audio level can only be controlled through the volume control of the external audio amplifier.
 2. See page 50 for AUDIO-Digital Output.



The exact arrangement you use to connect the VCR, camcorder, laserdisc player, DVD player, or HDTV Set Top Box to your TV set is dependent on the model and features of each component. Check the owner's manual of each component for the location of video and audio inputs and outputs.

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.

### Before Operating External Video Source

Connect an external source to the INPUT terminal, then press the INPUTS button to show the INPUTS menu. Use the CURSOR PAD to select the Antenna and Input of your choice. Then press the SELECT button to confirm your choice (see page 25).





**NOTE:** When the TV is set to VIDEO and a video signal is not received from the VIDEO INPUT JACK on the back panel of the TV (i.e., VCR/laserdisc player, etc. is not connected or the video device is OFF), the set will appear to be OFF.

### CONNECTING A MONAURAL AUDIO SOURCE TO INPUT1~INPUT5

- 1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the TV set below.
- 2. Connect the cable from the AUDIO OUT of the VCR or the laserdisc player to the INPUT (MONO)/L(AUDIO) jack.
- 3. Press the INPUTS button, then select INPUT 1 from the INPUTS menu to view the program from the VCR or the laserdisc player. The VIDEO OSD label disappears automatically after approximately four seconds.
- 4. Select Antenna from the INPUTS menu to return to the previous channel.



# **CONNECTING EXTERNAL VIDEO DEVICES**



### CONNECTING A STEREO SOURCE TO INPUT1~INPUT5

- 1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the TV set below.
- 2. Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
- 3. Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.
- 4. Press the INPUTS button, then select INPUT 3 from the INPUTS menu to view the program from the VCR or laserdisc player. The VIDEO OSD label disappears automatically after approximately four seconds.
- 5. Select Antenna from the INPUTS menu to return to the previous channel.



- **NOTES:** 1. 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.
  - 2. A single VCR can be used for VCR #1 and VCR #2 (see page 13), but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line input-output connections.



### CONNECTING AN S-VIDEO SOURCE TO INPUT 3, 4 AND 5

- 1. Connect the cable from the S-VIDEO OUT of the VCR or the laserdisc player to the INPUT (S-VIDEO) jack, as shown on the TV set below.
- 2. Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
- 3. Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.
- 4. Press the INPUTS button, then select INPUT 3 from the INPUTS menu to view the program from the VCR or laserdisc player. The VIDEO OSD label disappears automatically after approximately four seconds.
- 5. Select Antenna from the INPUTS menu to return to the previous channel.



**NOTES:** 1. 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.

2. A single VCR can be used for VCR #1 and VCR #2 (see page 13), but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line input-output connections.

# **CONNECTING EXTERNAL VIDEO DEVICES**



### CONNECTING A COMPONENT SOURCE WITH HDMI or DVI CAPABILITY TO INPUT 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 1. shown on the TV set below. When using a component with DVI output, you also have to connect the AUDIO OUT (R/L) of the component to the AUDIO IN (R/L) of INPUT 1.
- 2. Press the INPUTS button, then select INPUT 1 from the INPUTS menu to view the program from the HDTV set top box or DVD player. The VIDEO OSD label disappears automatically after approximately four seconds.
- Select Antenna from the INPUTS menu to return to the previous channel. З.



- NOTES: Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is 1. played back will be abnormal if the connection is loose.
  - 2. The HDMI input on INPUT 1 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 З. uncompressed video to a display.
  - The connected digital output device controls the HDMI interface so proper set-up of device user settings determines 4. final video appearance.

### 19



FIRST TIME USE

### CONNECTING A COMPONENT SOURCE TO INPUT 1 OR 2: Y-PBPR.

- 1. Connect the cable from the Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (Y) jack, as shown on the TV set below.
- 2. Connect the cable from the C<sub>B</sub>/P<sub>B</sub> OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P<sub>B</sub>) jack.
- 3. Connect the cable from the C<sub>B</sub>/P<sub>B</sub> OUT or R-Y OUT of the laserdisc/DVD player or HDTV set top box to the INPUT (P<sub>B</sub>) jack.
- 4. Connect the cable from the AUDIO OUT R of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/R) jack.
- 5. Connect the cable from the AUDIO OUT L of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/L) jack.
- 6. Press the the INPUTS button, then select INPUT 2 from the INPUTS menu to view the program from the Laserdisc/DVD player or HDTV set top box. The VIDEO OSD label disappears automatically after approximately four seconds.
- 7. Select Antenna from the INPUTS menu to return to the previous channel.



- **NOTES:** 1. 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.
  - 2. See page 14 for tips on REAR PANEL CONNECTIONS.

# THE REMOTE CONTROL



In addition to controlling all the functions on your HITACHI Projection TV, the new remote control is designed to operate different types of VCRs, CATV (Cable TV) converters, set-top-box, satellite receiver, DVD players, and other audio/video equipment with one touch. Basic operation keys are grouped together in one area.

To operate your TV, point the remote control at the screen of the TV and select the TV by pressing the ◀ or ▶ button of the Source Access on the remote.

To operate your VCR, point the remote at the remote sensor of the VCR and select PVR by pressing the ◀ or ▶ button of the Source Access on the remote (see page 36 for instructions on how to program the remote to control your VCR).

To operate your cable box, point the remote at the remote sensor of the cable box and select the CABLE (CBL) by pressing the ◀ or ► button of the Source Access on the remote (see page 33 for instructions on how to program the remote to control your cable box).

To operate your set-top-box or satellite receiver point the remote at the remote sensor of the set-top-box and select the SET-TOP-BOX (STB) by pressing the  $\blacktriangleleft$  or  $\triangleright$  button of the Source Access on the remote. If you have a satellite receiver, use this button to program your satellite receiver (see page 34 for instructions on how to program the remote to control your set-top-box).

To operate your DVD player, point the remote at the remote sensor of the DVD player and select DVD by pressing the ◀ or ▶ button of the Source Access on the remote (see page 35 for instruction on how to program the remote to control your DVD player).

To operate your PVR (Personal Video Recorder), point the remote at the remote sensor of the PVR and select PVR by pressing the ◀ or ▶ button of the Source Access on the remote (see page 36 for instruction on how to program the remote to control your PVR).

To operate additional audio equipment, point the remote at the remote sensor of the component you wish to control and select AMP by pressing the ◀ or ▶ button of the Source Access on the remote (see page 37 for instructions on how to program the remote to control additional Audio/Video equipment).



**NOTE:** When you are in a dark room, press any button on the remote to light up the buttons. The illumination will light for a few seconds during this time. The current mode indicator will flash one time. These buttons will not appear to light if the room is too bright.



# HOW TO USE THE REMOTE TO CONTROL YOUR LCD REAR PTV



# THE REMOTE CONTROL

### 1 POWER button

Press this button to turn the TV set on or off when the remote is in TV mode. (See page 21 for instructions on how to set the remote control to TV mode.)

### (2) MODE Indicator

Turns on or blinks to show remote control mode.

### ③ SOURCE ACCESS (◀ , ►) buttons

Press these buttons to select remote control mode.

### **(4)** SOURCE ACCESS (ENT) button

Hold down this button while entering your device code to program the remote (see pages 33-40). You can also use this button in an optional Input access feature (see page 38).

### 5 PAUSE button

Press the PAUSE button to freeze the picture. Press the EXIT button to return the picture to motion. Press the PAUSE button repeatedly to cycle through the three different freeze modes (see page 32).





### 6 ASPECT button

Press this button to quickly change the picture format ASPECT ratio.

Depending on the input signal format received, the picture format ratio allows you to adjust the images through the following options.

- 4:3 STANDARD Use this aspect mode to display conventional (4:3) images. Side panels (gray areas) are placed to the left and right of the image to preserve the original aspect ratio of the source. Note: Use this mode for only 15% of your total viewing time to prevent uneven aging of the phosphors. Phosphors in the lighted area of the picture will age more rapidly than the gray areas.
- 4:3 EXPANDED Use this aspect mode to display conventional (4:3) sources by linearly increasing image expansion from the center towards the edges of the display area in order to fill it.
- 4:3 Zoom1/Zoom2 Use these aspect modes to zoom in on conventional (4:3) sources.
- 16:9 STANDARD Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio.
- 16:9 Zoom Use this aspect to Zoom-in once while in 16:9 aspect.
- (1) NTSC/480i/480P Input



16:9 STANDARD

INPUT

**NOTES:** 1. The Aspect Style setting you select for an ANT input will automatically be set for the other ANT inputs. However, all five video inputs have independent Aspect Style settings.

16:9 ZOOM

2. Vertical position adjustments are directly available when you choose 4:3 EXPANDED/ZOOM1/ZOOM2 or 16:9 ZOOM aspect style (see also page 51).

4:3 EXPANDED



# HOW TO USE THE REMOTE TO CONTROL YOUR LCD REAR PTV

### 7) DAY/NIGHT button

Press this button to toggle between Day and Night picture mode settings. Select Day for day time viewing with more brightness and contrast to compete with room light. Select Night for night time viewing with less brightness and contrast for a more detailed picture (see page 44 for settings changes).

**NOTE:** For automatic DAY/NIGHT picture mode settings, see page 60.

### (8) PICTURE-IN-PICTURE button

See separate section on pages 30-31 for a description.

### (9) MENU button

The MENU button will start the On-Screen Display.

### (10) GUIDE button

Press this button to access the Channel Guide. Press the GUIDE button again to return to normal viewing.

Select CHANNEL GUIDE to display available program information. Only scanned programs that are available at the present time will show in the Channel Guide (see Auto Channel Scan on page 52).



Use the CURSOR PAD  $\blacktriangle$ ,  $\triangledown$ ,  $\checkmark$ ,  $\checkmark$ , to highlight the channel of choice (example: KPBS-HD). Press the CURSOR PAD  $\blacktriangle$ ,  $\triangledown$ , to highlight the subchannel of choice (example: 15-1). Press the SELECT button to tune the subchannel of choice.

**NOTE:** The availability of Channel Guide Information will depend on the type of Antenna input (Analog, Digital) and Cable subscription.

### (11) EXIT button

This button will exit all On-Screen Displays.

### (12) CURSOR PAD/SELECT button

All the On-Screen Display features can be set or adjusted by using the CURSOR PAD, except for numeric entries. The CURSOR PAD will highlight functions or adjust and set different features. Press the CURSOR PAD toward desired direction and press the SELECT button to select.

### (13) C.C. button

Press this button to turn the Closed Caption feature on, off or auto. You can also access this feature on the setup menu (see page 66).



### (14) INPUTS button

When the remote control is in TV mode, press this button to access the INPUTS menu. Use the CURSOR PAD and SELECT button to select the inputs that are being used. Pressing the INPUTS button repeatedly will also cycle through the Inputs menu items. Then press the SELECT button to select.



Photo Input	Select to access your pictures from a digital camera connected to the Photo Input in the front panel of the TV (see page 26).	
Ant B	Select to choose Antenna B.	1000
Ant A	Select to choose Antenna A.	1
Input 1	Select to choose Input 1 for Video 1.	
Input 2	Select to choose Input 2 for Video 2.	р П
Input 3	Select to choose Input 3 for Video 3.	Ç
Input 4	Select to choose Input 4 for Video 4.	
Input 5	Select to choose Input 5 for Video 5.	



# HOW TO USE THE REMOTE TO CONTROL YOUR LCD REAR PTV

### PHOTO INPUT

This feature is useful for viewing digital still pictures from your digital camera using the Photo Input in the side panel (Models 42V710, 42V715) or the front panel (Models 50V710, 60V710, 50V715, 60V715) of the TV.



### JUMP

Select this menu item to view the chosen picture number.



# NOTES: 1. The maximum number of digital Photos that can be displayed is 999. 2. Press INFO button to show Picture Numbers in Thumbnail view, plus other information in individual photos. 3. Digital photos recorded on a DVD-RAM disc may not work with this Photo Input. 4. Certain types of digital cameras may not work with this Photo Input. 5. Digital cameras with low battery power may not properly display your photos in this input. 6. The screen may show "Input device not detected" if the digital camera's large capacity memory is fully loaded. Please wait 1 or 2 minutes before checking your Photo Input connections. 7. The screen may show "Input device not detected" due to slow access time on some digital cameras. Please wait 1 or 2 minutes before checking your Photo Input connections.

# HOW TO USE THE REMOTE TO CONTROL YOUR LCD REAR PTV



Select this menu item to start a slideshow of the Photos in your digital camera. Time interval selections can be set from 5, 10 and 30 seconds.



Use CURSOR PAD ▲, ▼ to highlight Slideshow item.

While interval is highlighted, press SELECT to change interval time from 5, 10 and 30 seconds. Each press will change interval time from the three mentioned choices.

Press SELECT to stop on a chosen picture of the slideshow. After 30 seconds, the slideshow will resume, or press SELECT again to continue the slideshow.

Press EXIT to exit the slideshow.

### ROTATE

Select this menu item to rotate selected photos either clockwise (CURSOR PAD ►) and counterclockwise (CURSOR PAD ◄). Rotate menu item is also available in THUMBNAIL view.



and a second sec	NOTES:	1.	Photo file names modified on a computer should be 8 characters (Ex. ABCD1234.jpg). 1st character: letters;	
			2nd to 4th: letters or numbers; 5th to 8th: numbers. Photo files should be first placed on a sub directory name	
			with 8 characters (Ex. 123ABCDE). 1st to 3rd: number; 4th to 8th: letters. The sub directory then should be placed	
Concession of the local division of the loca			on a main directory with a "dcim" file name format.	
		0	Ourse stadies and American to 0070 y 0004. IDEO (constations with DOE Observation) (Design and for	

2. Supported image types are up to 3072 x 2304; JPEG format should conform with DCF Standard (Design rule for Camera File System).

3. This TV set displays only digital pictures from digital cameras which meet DCF Standard. Pictures that were copied, edited or modified on a computer may not be displayed on the TV set.



# HOW TO USE THE REMOTE TO CONTROL YOUR LCD REAR PTV

### (15) 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, CHANNEL ID and if the TIMER is set.





### **(b)** VOLUME (VOL) WHEEL, MUTE button

Use the VOL WHEEL (▲ or ♥) until you obtain the desired sound level.

To reduce the sound to one half of normal volume (SOFT MUTE) to answer the telephone, etc., press the VOL wheel down. Press the VOL wheel again to turn the sound off completely (MUTE). To restore the sound, press the VOL wheel one more time, or VOL Up ( $\blacktriangle$ ).



Closed Captioning will display automatically when MUTE/SOFT MUTE is on and Closed Caption is set to AUTO (see page 66).

When the TV power is turned off at a volume level 31 or greater, the volume level will default to 30 when the TV is turned on. However, if it is set to a level 30 or less, the volume level will be at the level it was set when the TV is turned ON.

### 7) CHANNEL (CH) WHEEL/CHANNEL SELECTOR buttons

The CHANNEL wheel or the CHANNEL SELECTOR buttons are used to select channels, lock access code, etc. Use the CHANNEL WHEEL ( $\blacktriangle$  or  $\blacksquare$ ) to select the desired channel. 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 wait a few seconds for the TV to tune. For channels 100 and above, use the CHANNEL SELECTOR buttons with the (-) DASH button. Channel selection may also be performed by CHANNEL WHEEL up ( $\blacktriangle$ ) or CHANNEL WHEEL down ( $\triangledown$ ).

Press the channel (CH) wheel to switch to Favorite (FAV) channel mode. You will know you are in Favorite Channel mode when (FAV) is displayed and the displayed channel is GREEN. Press it again to return to your regular tuned channels. You can add any channel to your Favorite channel list by pressing and holding down the Channel (CH) wheel until the displayed channel turns from WHITE to highlighted GREEN. You can also delete a channel from your favorite channel list by pressing and holding down the Channel (CH) wheel until the displayed channel turns from WHITE to highlighted GREEN. You can also delete a channel from your favorite channel list by pressing and holding down the Channel (CH) wheel until the displayed channel turns highlighted GREEN to WHITE.



### (18) (-) DASH button

Use the (-) DASH button with the CHANNEL SELECTOR buttons to enter Digital Channels that have subchannel numbers indicated by (-) DASH (example 15-1).

### (19) LAST CHANNEL (LC) button

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



Your HITACHI LCD Rear PTV incorporates Two Tuner technology designed for improved viewing enjoyment. This Two Tuner feature allows you to view antenna inputs on both the main picture and sub-picture simultaneously, with separate tuning control for each.

ANT A input can be viewed as both the main picture and the sub-picture simultaneously. ANT B can only be viewed as a main picture. To select between main picture and PIP sub-picture tuning, use the CURSOR PAD on the remote. The green highlighted channel display will move with every press of the CURSOR PAD ( $\blacktriangleleft$ ,  $\blacktriangleright$ ).

The Picture-in-Picture feature is convenient when you want to watch more than one program at the same time. You can watch a TV program while viewing other programs from any of the video inputs.



Use above connection to view VCR program as a sub-picture while viewing another program as main picture (ANT A, ANT B, INPUT:2, INPUT:3, INPUT:4, or INPUT:5). You may also view the VCR program as a main picture while viewing another program as a sub-picture (ANT A, INPUT:2, INPUT:3, INPUT:4 or INPUT:5).

When installing a CableCARD, connect your coaxial cable to ANT A (see page 12). ANT B will not be available while using a CableCARD.

### ) PIP button

Press the PIP button and a sub-picture will appear in one of the four different modes (POP, PIP, SPLIT or SURF), depending on the INPUT signal. To change the PIP mode, use the PIP button to cycle through the four different modes.

### POP MODE PICTURE-IN-PICTURE

POP Mode PIP displays the sub-picture outside of the main picture. Use the CURSOR PAD (▲, ▼) to move the sub-picture. This feature is not available with a 1080i component input or Digital signal 16x9 Format. Please refer to the PICTURE-IN-PICTURE MODES Table (see page 31).



NOTES: 1. Digital Channels cannot be viewed as a sub-picture.

- 2. PIP MODE Picture-in-Picture is only available with a 1080i component or digital signal 4x3 Format.
- 3. Press the CURSOR PAD ( $\blacktriangleleft$ ,  $\blacktriangleright$ ) to enable the sub-picture sound.
- 4. Sub-picture channel availability depends on the channel list.



### **PIP MODE PICTURE-IN-PICTURE**

This feature is only available with a 1080i component input or Digital signal 16x9 Format. To prevent a pattern burn, occasionally move the sub-picture using the CURSOR PAD.



### SPLIT MODE PICTURE-IN-PICTURE

Split Mode PIP displays the main picture and sub-picture evenly on the screen.



### SURF MODE PICTURE-IN-PICTURE

Surf Mode PIP automatically scans all active channels (those set in memory) and displays them as PIP pictures or Thumbnail channels. Press the SELECT button to stop on a chosen channel. Use the remote CURSOR PADS ( $\blacktriangleleft$ ,  $\triangleright$ ,  $\blacktriangle$ ,  $\triangledown$ ) to navigate the Thumbnail. Press the EXIT button to enable your chosen channel and return to normal viewing.



**NOTE:** Press the SELECT button to stop the Surf mode or channel scan. Press the SELECT button again to resume Surf mode or channel scan.

			,	· ·		
PIP Mode	Sub Main	NTSC	480i	480p	720p	1080i
POP	NTSC	Yes	Yes	-	-	Yes
	480i	Yes	Yes	-	-	Yes
	<b>Digital</b> 4x3 Format	Yes	Yes	-	-	Yes
PIP 4x3	1080i	Yes	Yes	-	-	
PIP 16x9	1080i Digital 16x9 Format		Yes	ыCr	atar	Yes
SPLIT	NTSC	Yes	Yes	Yes	Yes	Yes
Sof 2 Inc I 5	480i	Yes	Yes	Yes	Yes	Yes
	480p	Yes	Yes	Yes	Yes	Yes
	720p	Yes	Yes	Yes	Yes	Yes
	1080i	Yes	Yes	Yes	Yes	Yes
	Digital					
12 Pix		Ant A/B		-	-	-

### PICTURE-IN-PICTURE (PIP) MODES



### 2 PAUSE button

If you wish to freeze the sub-picture, press the PAUSE button. This is convenient when trying to write down the address for a mail order company, recording statistics for a sporting event, etc. To return the picture to motion, press the EXIT button. Press the PAUSE button repeatedly to toggle between FREEZE modes (Main Freeze, SPLIT and STROBE).



### MAIN FREEZE

Press the PAUSE button to freeze one frame of the picture you are currently viewing and the frozen frame will show in the Main Picture. Press the EXIT button to return to normal viewing. This feature is useful for freezing a picture frame with addresses.



### SPLIT FREEZE

Press the PAUSE button to freeze the picture you are currently viewing (only the right sub-picture will freeze). Press the EXIT button to return to normal viewing.



### STROBE FREEZE

Press the PAUSE button to freeze three frames of the picture you are currently viewing (only the 3 sub-pictures will freeze). Press the EXIT button to return to normal viewing. This feature is useful for viewing a moving picture that has many details, for example, a close play in a sporting event or a golf swing.



- **NOTES:** 1. The default FREEZE mode is the MAIN freeze followed by the SPLIT freeze and then the STROBE freeze. The last Freeze mode you selected before you pressed the EXIT button will be the one that comes up after pressing the PAUSE button again.
  - 2. Each freeze frame is delayed about 0.1 (1/10) second.
  - 3. Strobe Freeze is not available in 480p/720p/1080i inputs.



This remote is designed to operate different types of cable boxes. You must first program the remote to match the remote system of your cable box (refer to pages 39-40 for pre-codes).

- 1. Turn ON your cable box.
- 2. Aim the remote control at the front of your cable box.
- 3. To switch to Cable (CBL) pre-coded mode, use the SOURCE ACCESS buttons (◀, ▶) on the remote control to position the LED light to the corresponding selection.
- 4. Hold down the ENT button on the remote and enter the four digit preset code that matches your cable box as shown on pages 39-40. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
- 5. 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.
- 6. The remote will now control your Cable box.

### NOTES:

- 1. If your cable box cannot be operated after performing the above procedures, your cable box code has not been precoded into the remote.
- 2. In the unlikely event that your cable box cannot be operated after performing the above procedures, please consult your cable box operating guide.
- 3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

### (1) PRECODED CABLE BOX buttons

These buttons transmit the chosen precoded cable codes.

2 EXCLUSIVE TV buttons

These buttons are for operating the TV.



### MY CABLE BOX CODE IS:



# USING THE REMOTE TO CONTROL SET-TOP-BOX/SATELLITE RECEIVER FUNCTIONS

### Operating the precoded function for your set-top-box/satellite receiver.

This remote is designed to operate different types of set-top-box/satellite systems. You must first program the remote to match the remote system of your set-top-box/satellite systems (refer to pages 39-40 for pre-codes).

- 1. Turn ON your set-top-box/satellite systems.
- 2. Aim the remote control at the front of your set-top-box/satellite systems.
- 3. To switch to set-top-box/satellite (STB) pre-coded mode, use the SOURCE ACCESS buttons (◀, ►) on the remote control to position the LED light to the corresponding selection.
- 4. Hold down the ENT button on the remote and enter the four digit preset code that matches your set-top-box/satellite receiver as shown on page 39-40. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the set-top-box/satellite receiver and press the POWER button. The remote will turn off your set-top-box/satellite receiver when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your set-top-box/satellite receiver. If the set-top-box/satellite receiver does not turn off, try a different four digit preset code.
- 6. The remote will now control your set-top-box/satellite receiver.

### NOTES:

THE REMOTE CONTROL

- If your set-top-box/satellite receiver cannot be operated after performing the above procedures, your set-topbox/satellite receiver code has not been precoded into the remote.
- 2. In the unlikely event that your set-top-box/satellite receiver cannot be operated after performing the above procedures, please consult your set-top-box/satellite receiver operating guide.

3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

# PRE-CODED SET-TOP-BOX/SATELLITE RECEIVER buttons

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

### 2) EXCLUSIVE TV buttons

These buttons are for operating the TV.



### MY SATELLITE RECEIVER/STB 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.



### Operating the precoded function for your DVD player.

This remote is designed to operate different types of DVD players. You must first program the remote to match the remote system of your DVD player (refer to pages 39-40 for pre-codes).

- 1. Turn ON your DVD player.
- 2. Aim the remote control at the front of your DVD player.
- 3. To switch to DVD pre-coded mode, use the SOURCE ACCESS buttons (◀, ►) on the remote control to position the LED light to the corresponding selection.
- 4. Hold down the ENT button on the remote and enter the four digit preset code that matches your DVD player, as shown on pages 39-40. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the DVD player and press the POWER button. The remote will turn off your DVD player when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your DVD player. If the DVD player does not turn off, try a different four digit preset code.
- 6. The remote will now control your DVD player.
- 7. You will need to set the display type of your DVD player to 16:9 widescreen.

### NOTES:

- 1. If your DVD player cannot be operated after performing the above procedures, your DVD player's code has not been precoded into the remote.
- 2. In the unlikely event that your DVD player cannot be operated after performing the above procedures, please consult your DVD player operating guide.
- 3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

### 1 PRECODED DVD Buttons

These buttons transmit the chosen precoded DVD codes.

### (2) EXCLUSIVE TV Buttons

These buttons are for operating the TV.



### MY DVD PLAYER CODE IS:\_



### Operating the precoded function for your VCR/PVR (Personal Video Recorder).

This remote is designed to operate different types of VCRs/PVRs. You must first program the remote to match the remote system of your VCR/PVR (refer to pages 39-40 for pre-codes).

- 1. Turn ON your VCR/PVR.
- 2. Aim the remote control at the front of your VCR/PVR.
- 3. To switch to VCR/PVR pre-coded mode, use the SOURCE ACCESS buttons (◀, ►) on the remote control to position the LED light to the corresponding selection.
- 4. Hold down the ENT button on the remote and enter the four digit preset code that matches your VCR/PVR, as shown on pages 39-40. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the VCR/PVR and press the POWER button. The remote will turn off your PVR when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your VCR/PVR. If the VCR/PVR does not turn off, try a different four digit preset code.
- 6. The remote will now control your VCR/PVR.

### NOTES:

THE RENOTE CONTROL

- 1. If your PVR cannot be operated after performing the above procedures, your PVR's code has not been precoded into the remote.
- 2. In the unlikely event that your PVR cannot be operated after performing the above procedures, please consult your PVR operating guide.
- 3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- 4. VCR precode library is included in the PVR mode. Default device for this mode is Hitachi VCR.
- 5. INFO, GUIDE and LC (Last Channel) buttons are for PVR devices, not for VCR.

### 1) PRECODED VCR/PVR Buttons

These buttons transmit the chosen precoded VCR/PVR codes.

### 2 EXCLUSIVE TV Buttons

These buttons are for operating the TV.



### MY VCR/PVR CODE IS:\_

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


### Operating the precoded function for your Audio component.

This remote is designed to operate different types of Audio component. You must first program the remote to match the remote system of your Audio component (refer to pages 39-40 for pre-codes).

- 1. Turn ON your Audio component you wish to control with the Remote.
- 2. Aim the remote control at the front of your Audio component.
- 3. To switch to Audio (AMP) component pre-coded mode, use the SOURCE ACCESS buttons (◀, ►) on the remote control to position the LED light to the corresponding selection.
- 4. Hold down the ENT button on the remote and enter the four digit preset code that matches your Audio component, as shown on pages 39-40. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the Audio component and press the POWER button. The remote will turn off your Audio component when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your Audio component. If the Audio component does not turn off, try a different four digit preset code.
- 6. The remote will now control your Audio component.
- 7. Repeat steps 1 6 if you wish to program the remote to control another Audio component.

### NOTES:

- 1. If your Audio component cannot be operated after performing the above procedures, your Audio component's code has not been precoded into the remote.
- 2. In the unlikely event that your Audio component cannot be operated after performing the above procedures, please consult your Audio equipment operating guide.
- 3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.
- CD precode library is included in the AMP mode. Default device for this mode is Hitachi Audio/Video Receiver (AVR/AMP).
- 5. INPUT, GUIDE, Channel (up/down), Volume (up/down) and REC button are not for CD devices.

### **1** PRECODED AUDIO Buttons

These buttons transmit the chosen precoded Audio component codes.

### 2) EXCLUSIVE TV Buttons

These buttons are for operating the TV.





NOTES: 1. The

- The REC (Record) button only applies to some precoded amplifier/receiver codes.
- 2. Refer to instruction manual of the Audio equipment for operation of the buttons exclusively for the Audio equipment.



# USING YOUR REMOTE "ENT" BUTTON TO ACCESS THE SPECIFIED INPUT OF THE TV

### **INPUT ACCESS**

This optional feature allows the user of the remote control to setup it's ENTER (ENT) button to access the specified input of the TV. Setup for this feature is applicable to the remote control's normal mode only and only applies to the DVD, CBL, STB, PVR and AMP modes.

- 1. Select the desired device mode (DVD, CBL, STB, PVR, or AMP) by using your SOURCE ACCESS buttons (◀, ►) to position the LED indicator to the corresponding selection.
- 2. Hold down the ENTER (ENT) button on the remote and enter the four digit preset code that matches your device as shown on pages 39-40.
- 3. Then enter the assigned input number (1-5) that the device is related to.
- 4. Release ENTER (ENT) button.
- 5. If done correctly, the device LED indicator will flash 3 times to confirm proper setup.
- 6. The remote will now control the desired device.
- 7. Pressing the ENTER (ENT) button will now access the video input (1-5) of the desired device.

### SETUP EXAMPLE (Hitachi DVD with precode 0573 connected to INPUT 1 of the TV)

- Select DVD mode by using your SOURCE ACCESS buttons (◄, ►) to position the LED indicator to DVD.
- (2) Hold down the ENTER (ENT) button and press the numbers 0, 5, 7 and 3.
- (3) Then press the number 1 for the assigned input number of the DVD player.
- (4) Release ENTER (ENT) button.
- 5 If done corrrectly, the device LED indicator will flash 3 times to confirm proper setup.
- (6) The remote will now control the DVD player.
- Press the ENTER (ENT) button to instantly access the video input of your DVD on Input 1.



NOTES: 1. This feature is optional.

2. Assigned input numbers can be used more than once if applicable.

THE REMOTE CONTROL

# PVR/VCR, CABLE, SATELLITE, DVD AND AUDIO CODES FOR REMOTE CONTROL



VCR BRAND	CODE
ABS	
Admiral	
Adventura	
Aiko	
Aiwa	
Akai	
Alienware	
American High	
Asha	
Audiovox	
Beaumark	
Bell & Howell	
Broksonic	
CCE	0072 0278
Calix	
Canon	
Carver	
Cineral	
Citizen	
Colt	
Utaly	
Curtis Mathes	
	0060, 0162
CyberPower	
Cybernex	
Daewoo	· · · · ·
Denon	
Durabrand	
Dynatech	
Electrohome	0037
Electrophonic	
Emerex	
Emerson	
······································	0002, 0210, 0001,
0208.0212	
0208, 0212 Fisher	, 0479, 0561, 1593
Fisher	, 0479, 0561, 1593 . 0104, 0047, 0066 0033, 0035
Fisher Fuji Funai	, 0479, 0561, 1593 . 0104, 0047, 0066 0033, 0035 0000, 1593
Fisher Fuji Funai GE 0035, 0060	, 0479, 0561, 1593 . 0104, 0047, 0066 0033, 0035 0000, 1593 , 0240, 0202, 0761
Fisher Fuji Funai GE 0035, 0060 Garrard	0479,0561,1593           0104,0047,0066           0033,0035           0000,1593           0240,0202,0761           0000
Fisher         Fuji.           Funai         Funai.           GE         0035,0060           Garrard         Gateway	0479,0561,1593 0104,0047,0066 003,0035 0035,0035 0040,0202,0761 0040,0202,0761 0000 1972
Fisher	0479,0561,1593 0104,0047,0066 0033,0035 0040,0202,0761 0240,0202,0761 0000 1972 00432,0526
Fisher         Fuji.           Funai         Funai.           GE         0035,0060           Garrard         Gateway	0479,0561,1593 0104,0047,0066 0033,0035 0040,0202,0761 0040,0202,0761 0040,0202,0761 00402,0526 00432,0526 0037,0038
Fisher         Fuji.           Funai.         Funai.           GE         0035,0060           Garrard         Garrard           Gateway         Go           Go Video         GoldStar           Gradiente         HI-Q	0479,0561,1593 0104,0047,0066 0033,0035 0240,0202,0761 0000 1972 0432,0526 0037,0038 0004
Fisher         Fuji.           Funai.         Ge.           GE	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0000 1972 0432,0526 0037,0038 0000,0008 0047 1972
Fisher       Fuji.         Funai.       Ge.         GE.       .0035, 0060         Garrard       Go         Go Video          Go Video          Gradiente          HI-Q.          HP          Harley Davidson	0479,0561,1593 0104,0047,0066 003,0035 0040,0202,0761 040,0202,0761 040,0202,0761 0432,0526 0037,0038 0000,0008 0047 1972 0047
Fisher         Fuji.           Funai         GE           GE         0035,0060           Garrard         Gadeway           Go Video         GoldStar           Gradiente.         HI-Q           HP         Harley Davidson           Harman/Kardon         Harman/Kardon	0479,0561,1593 0104,0047,0066 0033,0035 0040,0202,0761 0400,0202,0761 0432,0526 0037,0038 0047 0432,0526 0037,0038 0047 0047 0047 0047 0000 0038,0081
Fisher       Fuji.         Funai.       Ge.         GE.       .0035, 0060         Garrard       Go         Go Video          Go Video          Gradiente          HI-Q.          HP          Harley Davidson	0479,0561,1593 0104,0047,0066 0033,0035 0040,0202,0761 0040,0202,0761 0432,0526 0037,0038 0047 0432,0526 0037,0038 0047 047 047 047 0047
Fisher         Fuji.           Funai         Funai.           GE         0035,0060           Garrard         Gateway           Go Video         GoldStar           GoldStar         Gradiente.           HI-Q.         HP           Harley Davidson         Harman/Kardon           Harwood         Harwood	0479,0561,1593 0104,0047,0066 003,0035 000,1593 0240,0202,0761 0000 1972 0432,0526 0037,0038 0047 1972 0047 0008 0008
Fisher       Fuji.         Funai.       Ge         GE       .0035,0060         Gataway       Go         Go Video          GoldStar          Gradiente.          HI-Q.          HP          Harley Davidson          Harman/Kardon          Headquarter          Hewlett Packard          Hitachi        0000	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0402,0761 0432,0526 0037,0038 0000,0008 0047 1972 0000 0038,0081 0072 0041,0042,0105
Fisher         Fuji.           Funai.         GE           GE         0035,0060           Garrard         Gateway           Go Video         GodStar           GoddStar         Gradiente.           HI-Q         H+           Harley Davidson         Harman/Kardon           Harwood         Harwood           Headquarter         Hewlett Packard           Hitachi         0000           Howard Computers         Nono	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 .0240,0202,0761 0000 1972 0432,0526 0037,0038 0000,0008 0047 
Fisher         Fuji.           Funai         Funai.           GE         0035,0060           Garrard         Gateway           Go Video         GoddStar           Gradiente.         HI-Q           HI-Q         HH-Q           HP         Harley Davidson           Hardey Davidson         Harwood           Harwood         Headquarter           Hewlett Packard         Hitachi.           Howard Computers.         Hughes Network Sys	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0402,0761 0432,0526 0037,0038 0047 0432,0526 0037,0038 0047 1972 0000 0038,0081 0072 0046 1972 0041,0042,0105 1972 tems. 0042
Fisher	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0432,0526 0037,0038 0000,0008 0047 1972 0000 0047 1972 0000 0038,0081 0072 0046 1972 0041,0042,0105 1972 tems
Fisher	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0432,0526 0037,0038 0047,0038 0047 1972 0047 0047 0047 0047 0047 0047 0047 0046 0072 0046 1972 0041,0042,0105 1972 tems.0042 0046 0042 0042 0042 0042 0042 0046 0042 0042 0046 0042 0042 0046 0042 00
Fisher	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0000 1972 0432,0526 0037,0038 0000,0008 0047 1972 0000 0038,0081 0072 0041,0042,0105 1972 0041,0042,0105 1972 0041,0042 0041
Fisher       Fuji.         Funai.       GE         GE       0035,0060         Garrard       Gateway         Go Video       GoldStar         Gradiente.       HI-Q         HI-Q       Harley Davidson         Harley Davidson       Harman/Kardon         Harwood       Headquarter         Hewlett Packard       Hitachi         Hitachi       0000         Howard Computers       Hughes Network Sys         IBuy Power       JVC         Jensen       KEC         KLH	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0402,0526 0432,0526 0037,0038 0000,0008 0047 1972 0000 0038,0081 0072 0046 1972 0041,0042,0105 1972 tems.0042 1972 0041,0048 0037,0278 0072
Fisher	0479, 0561, 1593         0104, 0047, 0066
Fisher	0479,0561,1593 0104,0047,0066 0033,0035 0240,0202,0761 0240,0202,0761 0432,0526 0037,0038 0000,0008 0047 1972 0047 0072 0041,0042,0105 1972 0041,0042,0105 1972 0041,0042,0105 1972 0041,0042,0105 0042 0072 0041,0008 0072 0041,0072 007
Fisher	0479,0561,1593 0104,0047,0066 003,0035 000,1593 .0240,0202,0761 0000 1972 0432,0526 0037,0038 0000,0008 0047 1972 0000 0038,0081 0047 0047 .0041,0042,0105 1972 .0041,0042,0105 1972 .0041,0042,0105 1972 .0041,0042,0105 
Fisher	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0432,0526 0037,0038 0000,0008 0047 1972 0040,0000 0038,0081 0047 1972 0064 0046 1972 0041,0042,0105 1972 1972 0041,0042,0105 1972 1972 0041,0042,0105 1972 0041,0042,0105 1972 1972 0041,0042,0105 1972 0041,0042,0105 1972 0041,0042,0105 0041 0037,0278 0072 0041,0067,0038 0037
Fisher	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0432,0526 0037,0038 0000,0008 0047 1972 0041,0042,0105 1972 0041,0042,0105 1972 0067,0041,008 0041 0037,0278 0072 0061,0041,008 0072 0072 0061,0041,008 0072 0061,0041,008 0072 0067,0041,008 0072 0072 0067,0041,008 0072
Fisher	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0432,0526 0037,0038 0047 0047 0047 1972 0040,0008 0047 1972 0040 0038,0081 0072 0046 1972 0041,0042,0105 1972 1972 1972 0041,0042,0105 1972 0041,0042,0105 1972 0067,0041,0008 0042 0072 0041,0067,0038 0037 0037 0037 0037 0037
Fisher	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0000 1972 0432,0526 0037,0038 0000,0008 0047 1972 0000 0038,0081 0072 0041,0042,0105 1972 0041,0042,0105 1972 0041,0042,0105 1972 0041,0042,0105 0042 0041 0042 0041 0042 0041 0041 0037,0278 0041 0041 0037 0041 0037 0041 0037 0037 0037 0037 0035 0035 0043,0240,0061
Fisher	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0000 1972 0432,0526 0037,0038 0000,0008 0047 1972 0000 0038,0081 0072 0041 0072 0041,0042,0105 1972 0041,0042,0105 1972 0041,0042,0105 1972 0041,0042,0105 0042 0041 0037,0278 0041 0037 0041 0037 0041 0037 0037 0037 0037 0037 0035 0043,0240,0061 0041
Fisher	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0000 1972 0432,0526 0037,0038 0000,0008 0047 1972 0000 0038,0081 0072 0041,0042,0105 1972 0041,0042,0105 1972 0041,0042,0105 1972 0041,0042,0105 0042 0041 0037,0278 0041 0037,0278 0072 0067,0041,0008 0037 0041 0037
Fisher       Fuji.         Funai       Ge         GE	0479, 0561, 1593         0104, 0047, 0066
Fisher	0479, 0561, 1593         0104, 0047, 0066
Fisher       Fuji.         Funai       Ge         GE	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0000 1972 0432,0526 0037,0038 0000,0008 0047 1972 0004,0042 0072 0041,0042,0105 1972 0041,0042,0105 1972 0041,0042,0105 1972 0041,0042,0105 0042 0041 0037,0278 0041 0037,0072 0041,0067,0038 0037 0037 0037 0037 0037 0035 0043,0240,0061 0240 0053,0000,0240 0593 0081,0563,0000,005
Fisher	0479,0561,1593 0104,0047,0066 0033,0035 0000,1593 0240,0202,0761 0000 1972 0432,0526 0037,0038 0000,0008 0047 1972 0000,0008 0047 0072 0041,0042,0105 1972 0041,0042,0105 1972 0041,0042,0105 1972 0041,0042,0105 0041 0037,0278 0041,0081,0035 0043,0240 0041 0035,0037 0035 0043,0240,0061 0240 0081,0563,0000, 0240 0081,0035

Matsushita Media Center P		. 0035	, 0162	, 1162
Media Center P	С			1972
Memorex 0039, 0047,	0035,	0162,	0037,	0048,
0039, 0047,	0240, 0479	1037	1162	1262
Microsoft				
Mind				
Minolta				
Mitsubishi				
Motorola				
Multitech			. 0000,	0072
NEC Nikko				
Noblex				
Northgate				
Olympus				0035
Olympus Optimus	0593,	1062,	0162,	0037,
0048, 0104,	0432	, 1048	, 1162,	1262
Optonica				0062
Orion				
1162, 1262	0102,	1002,	0035,	0010,
Penney	0035.	0037,	0240.	0042.
				0038
Pentax			0042,	0105
Philco				
Philips		0081,	0035,	0618,
	• • • •	. 1081	, 1181,	0062
Pioneer	• • • •			0037
Polk Audio				
Profitronic				
Proscan		0060	0202,	0761
Protec				
Pulsar				
Quarter Quartz				
Quasar				
RCA				
	0106,	0202	0761,	0880
Radio Shack			0000,	1037
Radix				
Randex				0037
	0035,	0037,	0048,	0047,
ReplayTV	0104,	. 0040	0614	0616
Runco				
STS				0042
Samsung	· · · · ·	0045	0240,	0432
Sanky	• • • •		. 0039,	0048
Sansui	0044	0000,	1470	0209,
Sanyo	0041,	0479.	0104	0271
Scott	0041,	0184	0045	0121
		0043	0210,	0212
Sears 0035,	0037,	0047,	0000,	0042,
	1237,	0046	0066,	0105
Semp	••••			0045
Sharp Shintom				
Shinion				0240
Singer				0072
Sonic Blue			0614,	0616
Sony		0035,	0032,	0000,
	0033,	0636	1032,	1972
Sylvania		0035,	0081,	0000,
Symphonic	· · · ·	0043	0593,	1593
Symphonic Systemax				
TMK		 	0240	0208
Tagar Systems.			· · · · · ·	1972
Tatung	· · · ·			0041
Teac				
Technics				
Teknika Thomas				
Thomas Tivo	· · · · ·	0618	0636	1503
Toshiba				
	0210,	0212,	0366,	0845,
	1008	, 1145	1503,	1972

Totevision	
otevision	
Touch	
/	
/ector Hesearch	
/ideo Concepts	0045, 0061
/ideomagic	0037
/ideosonic	
	2, 0035, 0048, 0047,
varus 0060, 006/	2,0035,0048,0047,
0081, 0240, 000	0, 0042, 0072, 0212
White Westinghous	e 0072, 0209
(R-1000	0072, 0000, 0035
	0038
T Group	
	9, 0000, 0209, 0033,
cenith	9, 0000, 0209, 0033,
OVD BRAND	CODE
Allegro	
Apex Digital 067	2, 0717, 0755, 0794,
	6, 0797, 1004, 1020, \$1, 1100, 1915, 1937
	61, 1100, 1915, 1937
Audiovox	
vion	
	0717
Blue Parade	0571
Brooksonic	
CAVS	1057
Cine//ision	
JIASSIC	
Јођу	1086
Curtis Mathes	1087
CyberHome	0816, 1023, 1024
VD2000	0521
Jaewoo	0784, 0705,
2001100	0923 0960 1019
	0833, 0869, 1918 0490, 0634
Dual	1068, 1085
Emerson	
	0591
Fisher	
Sunoi	
	0676
una	
GE	0522,0717,0815
GE GPX	0522,0717,0815
GE GPX	0522,0717,0815
GE GPX Gateway Go Video	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783,
GE GPX Gateway Go Video	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783,
θΕ θΡΧ θateway θο Video	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783, 0833, 0869, 1075
βΕ βΡΧ βateway βο Video βradiente	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783, 0833, 0869, 1075 0651
GE GPX Gateway Go Video Gradiente Greenhill	0522,0717,0815 0699,0769 1073 0744,0715,0783, 0833,0869,1075 0651 0717
GE GPX. Gateway Go Video Gradiente Gradiente Grundig	0522,0717,0815 0699,0769 1073 0744,0715,0783, 0833,0869,1075 0651 0717 0705
GE. GPX. Gateway Go Video Gradiente. Gradiente. Greenhill Grundig. Harman/Kardon	0522,0717,0815 0699,0769 1073 0744,0715,0783, 0833,0869,1075 0651 0717 0705 0702
GE. GPX. Gateway Go Video Gradiente. Gradiente. Greenhill Grundig. Harman/Kardon	0522,0717,0815 0699,0769 1073 0744,0715,0783, 0833,0869,1075 0651 0717 0705 0702
≩E. ậPX. Ĝateway Ĝo Video Ĝradiente. âreenhill ârundig łarman/Kardon łitachi	0522,0717,0815 0699,0769 1073 0744,0715,0783, 0833,0869,1075 0651 0717 0702 0702 0573,0664,0695
GE Gateway Gateway Gradiente Gradien	0522,0717,0815 0699,0769 1073 0744,0715,0783, 0833,0869,1075 0651 0717 0702 0702 0702 0651
GE. Gateway Go Video Gradiente Gradiente Grandig Harman/Kardon Hitachi Hitachi RT	0522,0717,0815 0699,0769 1073 .0744,0715,0783, .0833,0869,1075 0651 .0717 .0702 .0573,0664,0695 .0672 .0783
GE. Gateway Go Video Gradiente Greenhill Grundig Harman/Kardon Hitachi Hitachi Hitachi RT nitial	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783, 0833, 0869, 1075 0651 0717 0705 0702 0573, 0664, 0695 0672 0783 0783
GE GPX. Gateway Ga Video Gradiente Grundig Grundig Harman/Kardon Hitachi Hiteker RT nitial ntial	0522,0717,0815 0699,0769 1073 0744,0715,0783, 0833,0869,1075 0651 0717 0705 0705 0702 0573,0664,0695 0783 0783 0783 0717 0627
GE. Gateway Gateway Gateway Gateway Gradiente. Gra	0522,0717,0815 0699,0769 1073 0744,0715,0783, 0833,0869,1075 0651 0717 0702 0573,0664,0695 0783 0717 0783 0717 0712 0783 0717 0627
GE. Gateway Gateway Gateway Gateway Gradiente Gradiente Gradiente Gradiente Gradiente Gradiente Hitachi Hitachi Hitachi Hitaker BL	0522,0717,0815 0699,0769 1073 .0744,0715,0783, .0833,0869,1075 0651 .0717 0702 0702 .0573,0664,0695 0783 .0717 0783 .0717 0627 0672 0672 0672
GE. Gateway Gateway Gateway Gateway Gradiente Gradiente Gradiente Gradiente Gradiente Gradiente Hitachi Hitachi Hitachi Hitaker BL	0522,0717,0815 0699,0769 1073 .0744,0715,0783, .0833,0869,1075 0651 .0717 0702 0702 .0573,0664,0695 0783 .0717 0783 .0717 0627 0672 0672 0672
AE         APX         APX         APX         Sateway         Sateway         Go Video         Go Video         Arradiente         Arrenhill         Arrendig         Harman/Kardon         Hitachi         Hiteker         NT         Itital         Ntegra         Hiteker         BL         IVC       062	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783, 0833, 0869, 1075 0651 0717 0702 0702 072 072 072 072 072 072 072 072 0627 0627 0672 072 072 072 072 0672 072 072 072
AE         APX         APX         APX         Sateway         Sateway         Go Video         Garadiente         Arandig         Araman/Kardon         Harman/Kardon         Hitachi         Hitachi         Hitachi         Hitachi         Hitaker         RT         Hitaker         BL         IVC       062         KLH	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783, 0833, 0869, 1075 0651 0717 0702 0573, 0664, 0695 0672 0783 0717 0627 072 0702 072 072 0702 0702 0702
SE SATE Sateway Sa	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783, 0833, 0869, 1075 0651 0717 0705 0702 0573, 0664, 0695 0783 0717 0672 0783 0717 0672 0723 0717 0723 0717 0723 0717 0790, 1020 0790
SE Sateway	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783, 0833, 0869, 1075 0651 0717 0702 0573, 0664, 0695 0712 0783 0712 0783 0712 0790 0790 0790 0740
AE         APX         APX         APX         APX         Arean         Areanhill         Arran/Kardon         Harman/Kardon         Hitachi         Arran/Kardon         Hitachi         Ititachi         Ititachi         Hitachi         Hitachi         Hitachi         Hitachi         Hitachi         Hitachi         Hitachi         Horgra         Hitaker         HBL         IVC       062         KuH         Kawasaki         Koss	0522,0717,0815 0699,0769 1073 0744,0715,0783, 0833,0869,1075 0651 0717 0702 0573,0664,0695 0712 0702 0773,0672 075 075
AE         APX         APX         APX         APX         Arean         Areanhill         Arran/Kardon         Harman/Kardon         Hitachi         Arran/Kardon         Hitachi         Ititachi         Ititachi         Hitachi         Hitachi         Hitachi         Hitachi         Hitachi         Hitachi         Hitachi         Horgra         Hitaker         HBL         IVC       062         KuH         Kawasaki         Koss	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783, 0833, 0869, 1075 0651 0717 0702 0573, 0664, 0695 0712 0783 0712 0783 0712 0790 0790 0790 0740
AE         APX         APX         Areway         Sateway         Go Video         Arradiente         Arreenhill         Arrenhill         Arrman/Kardon         Hitachi         Hitachi         Hitachi         Hitachi         NT         Hitaker         BL         IVC       062         KLH         Kawasaki         Kenwood         Assonic	0522, 0717, 0815 0699, 0769 1073 .0744, 0715, 0783, .0833, 0869, 1075 0651 .0717 .0702 .0573, 0664, 0695 .0672 .0783 .0717 .0627 .0672 .0672 .0702 .0558, 0867, 1901 .0717, 0790, 1020 .0790, 0534 .0651 .0798
AE         APX         APX         Sateway         Sateway         Go Video         Garadiente         Arrenhill         Arrendig         Harman/Kardon         Hitachi         Hiteker         NT         Hiteker         BL         IVC       062         KLH         Koss         .asonic         .ite-On	0522, 0717, 0815 0699, 0769 1073 .0744, 0715, 0783, .0833, 0869, 1075 0651 .0717 .0702 .0573, 0664, 0695 .0672 .0783 .0717 .0627 .0702 .0558, 0867, 1901 .0717, 0790, 1020 .0790 .0490, 0534 .0798 .0798 .0558
AE         APX         APX         Sateway         Sateway         Go Video         Arandiente         Aradiente         Aradiente         Aradiente         Aradiente         Arandig         Arundig         Harman/Kardon         Hitachi         Hitachi         Hitachi         Hiteker         BL         VC       062         KLH         Kawasaki         Assonic	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783, .0833, 0869, 1075 0651 0717 0705 0705 0702 0573, 0664, 0695 0672 0783 0717 072 0790 0790 0798 058
AE         APX         APX         Aranov	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783, 0833, 0869, 1075 0651 0717 0705 0702 0573, 0664, 0695 0717 072 0783 0717 072 0790 0790 0790 0790 0790 0791
AE         APX         APX         APX         APX         Arean         Areanhill         Arran/Kardon         Hitachi         Artanan/Kardon         Hitachi         Artanan/Kardon         Hitachi         Artanan/Kardon         Hitachi         Hitachi         Hitachi         Hitachi         Hitachi         Hitachi         Koss         Asonic         Jite-On         Aganavox         Alarantz         Alemorex	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783, .0744, 0715, 0783, .0833, 0869, 1075 0651 0717 .0702 .0573, 0664, 0695 0672 .0672 .0672 .0672 .0672 .0702 .0672 .0703 .0702 .0703 .07
AE         APX         APX         APX         APX         Arean         Areanhill         Arran/Kardon         Hitachi         Artanan/Kardon         Hitachi         Artanan/Kardon         Hitachi         Artanan/Kardon         Hitachi         Hitachi         Hitachi         Hitachi         Hitachi         Hitachi         Koss         Asonic         Jite-On         Aganavox         Alarantz         Alemorex	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783, 0833, 0869, 1075 0651 0717 0705 0702 0573, 0664, 0695 0717 072 0783 0717 072 0790 0790 0790 0790 0790 0791
AE         AFX         AFX         Sateway         Arendiente         Arrenhill         Arrenhill         Arrenhill         Arrenhill         Arrenhill         Arrenhill         Arrenhill         Arrenhill         Hitachi         Hitachi         Hitachi         NC         NC         VC         VC         Kenwood         Coss         _asonic         .ite-On         Aagnavox       050         Aremorex         Alerosoft	0522, 0717, 0815 0699, 0769 1073 .0744, 0715, 0783, .0833, 0869, 1075 0651 .0717 .0702 .0573, 0664, 0695 .0672 .0783 .0717 .0627 .0672 .0772 .0672 .0702 .0558, 0867, 1901 .0717, 0790, 1020 .0717, 0790, 1020 .0798 .0651 .0798 .0651 .0798 .0534 .0651 .0539 .0654 .0539 .0552 .0522
AE         APX         APX         Sateway         Sateway         Go Video         Arradiente         Arreenhill         Arrendig         Harman/Kardon         Hitachi         Hitachi         Hitachi         Hitachi         Hiteker         NC         MBL         IVC       062         KLH         Kenwood         Koss	0522, 0717, 0815 0699, 0769 1073 .0744, 0715, 0783, .0833, 0869, 1075 0651 .0717 .0702 .0573, 0664, 0695 .0672 .0783 .0717 .0627 .0702 .0558, 0867, 1901 .0717, 0790, 1020 .0558, 0867, 1901 .0717, 0790, 1020 .0554 .0651 .0798 .0651 .0798 .0651 .0798 .0651 .0798 .0651 .0798 .0651 .0798 .0651 .0539 .0652 .0522 .0717, 0839
SE SALANSA SALANSA Sateway	0522, 0717, 0815 0699, 0769 1073 .0744, 0715, 0783, .0833, 0869, 1075 0651 .0717 .0702 .0573, 0664, 0695 .0672 .0702 .0573, 0664, 0695 .0672 .0717 .0627 .0717 .0627 .0702 .0558, 0867, 1901 .0717, 0790, 1020 .0790 .0490, 0534 .0651 .0798 0684 .0651 .0798 .0558, 0867, 1914 .058 .0529 .0522 .0717, 0839 .0521, 1521
ABA         APX         APX         APX         APX         Arean         Areanhill         Arran/Kardon         Harman/Kardon         Hitachi         Hore         Ker         BL         VC       062         KLH         Kawasaki         Koss         .asonic         .ite-On         Aggnavox       050         Aarantz         Aemorex         Mintek         Mitsubishi	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783, 0833, 0869, 1075 0651 0717 0702 0573, 0664, 0695 0717 0702 0573, 0664, 0695 0717 0717 072 0717 0717 0790, 1020 0790 0790 0790 0790 0790 0790 0790 0790 0790 0790 0790 0790 0790 0790 0790 0790 0534 0551 0717, 0839 0521, 1521 0717
AE         APX         APX         APX         APX         Arean         Areanhill         Arran/Kardon         Hitachi         Arman/Kardon         Hitachi         Arman/Kardon         Hitachi         Arman/Kardon         Hitachi         Arman/Kardon         Hitachi         Mital         Hitachi         Mital         Hitachi         Megra         Hitaker         BL         VIC       062         KuH         Kawasaki         Koss         .asonic         .ite-On         Aagnavox         Aagnavox         Aemorex         Microsoft         Misubishi         Vesa         Vorcent	0522, 0717, 0815 0699, 0769 1073 0744, 0715, 0783, .0744, 0715, 0783, .0833, 0869, 1075 0651 0717 0702 .0573, 0664, 0695 0672 0672 0672 0672 0672 0672 0672 0717, 0790, 1020 0790 0790 0790 0790 0790 0790 0790 0790 0790 0790 0521, 1003, 0872
AE         AFX         AFX         Areway         Go Video         Garadiente         Arrenhill         Arrenhill         Arrman/Kardon         Hitachi         NC         NC         Kawasaki         Kenwood         Koss         Jasonic         Jasonic         Agnavox       050         Alarantz         Alemorex         Airosoft         Mintek         Norcent         Dnkyo	0522, 0717, 0815 0699, 0769 1073 .0744, 0715, 0783, .0833, 0869, 1075 0651 0717 0702 .0573, 0664, 0695 072 .0573, 0664, 0695 072 .0573, 0664, 0695 0717 .0627 .0702 0717, 0790, 1020 0717, 0798 0521 0539 0521, 1521 0717 0521, 1521 0717 03, 0872 0627, 0503
AE         AFX         AFX         Sateway         Go Video         Arrenhill         Arrenhill         Arrenhill         Arrenhill         Harman/Kardon         Hitachi         NC         NC         VC         VC         VC         Kenwood         Kawasaki         Kenwood         Aggnavox         Aggnavox         Microsoft         Mitsubishi         Vesa         Norcent         Onkyo         Oritron	0522, 0717, 0815 0699, 0769 1073 .0744, 0715, 0783, .0833, 0869, 1075 0651 .0717 .0702 .0573, 0664, 0695 .0672 .0783 .0717 .0627 .0702 .0558, 0867, 1901 .0717, 0790, 1020 .0717, 0790, 1020 .0717, 0790, 1020 .0717, 0790, 1020 .0717, 0790, 1020 .0651 .0651 .0798 .0651 .0717, 0839 .0621, 1521 .0717, 0839 .0627, 0503 .0627, 0503
AE         AFX         AFX         Sateway         Go Video         Arrenhill         Arrenhill         Arrenhill         Arrenhill         Harman/Kardon         Hitachi         NC         NC         VC         VC         VC         Kenwood         Kawasaki         Kenwood         Aggnavox         Aggnavox         Microsoft         Mitsubishi         Vesa         Norcent         Onkyo         Oritron	0522, 0717, 0815 0699, 0769 1073 .0744, 0715, 0783, .0833, 0869, 1075 0651 0717 0702 .0573, 0664, 0695 072 .0573, 0664, 0695 072 .0573, 0664, 0695 0717 .0627 .0702 0717, 0790, 1020 0717, 0798 0521 0539 0521, 1521 0717 0521, 1521 0717 03, 0872 0627, 0503
AE         APX         APX         Sateway         Arenalistic         Go Video         Arradiente         Arradiente         Arradiente         Arradiente         Arradiente         Arradiente         Arradiente         Arradiant         Harman/Kardon         Hitachi         Hitachi         Hitaker         NT         Artitaker         BL         IVC       062         KLH         Koss         .assonic         .ite-On         Aagnavox       050         Marantz         Aemorex         Microsoft         Mintek         Norcent         Dnkyo         Dritron         Panasonic	0522, 0717, 0815 0699, 0769 1073 .0744, 0715, 0783, .0833, 0869, 1075 0651 .0717 .0702 .0573, 0664, 0695 .0672 .0783 .0717 .0627 .0702 .0558, 0867, 1901 .0717, 0790, 1020 .0717, 0790, 1020 .0717, 0790, 1020 .0717, 0790, 1020 .0717, 0790, 1020 .0651 .0651 .0798 .0651 .0717, 0839 .0621, 1521 .0717, 0839 .0627, 0503 .0627, 0503

Philips	0503	0539	0646	0854
Pioneer				
Polaroid				
Polk Audio				
Proscan				0522
Qwestar				0651
RCA		0522	0571	0717
Recco				
Rio				
Rotel				
Rowa				0823
Sampo			0698,	0752
Samsung				
		0820	0744	1075
Sansui		<i>чо</i> шо,	<i>•7</i> ,	0605
Sanyo	• • • • • •	0070	0005	0000
Semp				
Sharp				
Shinsonic			0533,	0839
Sonic Blue				
Sony				
Sylvania				
Symphonic				
ΤΥΤ΄	• • • • • •	• • • • •	• • • • •	0705
Теас				
Technics				0490
Theta Digital .				0571
Tivo				1906
Tivo Toshiba		 0500	0605	1030
iosinba	• • • • • •	0503,	0695,	1045,
Tredex				
US Logic				0839
Urban Concep	ts			0503
Venturer				
ХВох				0522
Yamaha		0400	0545	0530
Zenith		0501	0503	0860
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0017 Allegro			0153,	0315
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0017 Allegro Americast Antronix	 	· · · · · ·	0153,	0315 0899 . 022
0017 Allegro Americast Antronix Archer			0153,	0315 0899 . 022 0797
0017 Allegro Americast Antronix Archer Bell & Howel.	· · · · · · · ·	. 022,	0153, 0153,	0315 0899 . 022 0797 .0014
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South	· · · · · · · · · · · · · · · · · · ·	. 022,	0153,	0315 0899 . 022 0797 .0014 0899
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cabletenna	· · · · · · · · · · · · · · · · · · ·	. 022,	0153,	0315 0899 . 022 0797 .0014 0899 0022
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0017 Allegro Americast Archer Bell & Howel. Bell South Cabletenna Cableview Century	· · · · · · · · · · · · · · · · · · ·	. 022,	0153,	0315 0899 . 022 0797 .0014 0899 0022 0022 0153
0017 Allegro Americast Archer Bell & Howel. Bell South Cabletenna Cableteinw	· · · · · · · · · · · · · · · · · · ·	. 022,	0153,	0315 0899 . 022 0797 .0014 0899 0022 0022 0153
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cabletenna Cableview Century Citizen	· · · · · · · · · · · · · · · · · · ·	. 022,	0153,	0315 0899 . 022 0797 .0014 0899 0022 0022 0153 0315
0017 Allegro Antronix Archer Bell & Howel. Bell South Cabletenna Cabletenna Century Citizen Citaer Max	· · · · · · · · · · · · · · · · · · ·	. 022,	0153, 0153, 	0315 0899 . 022 0797 .0014 0899 0022 0022 0153 0315 0883
0017 Allegro Antronix Archer Bell & Howel. Bell South Cabletenna Cableview Cableview Cableview Citizen ClearMax Clearmaster	· · · · · · · · · · · · · · · · · · ·	. 022,	0153, 0153, 0153, 0153,	0315 0899 . 022 0797 .0014 0899 0022 0022 0153 0315 0883 0883
0017 Allegro Antronix Archer Bell & Howel. Bell South Cabletenna Cableview Century Citizen ClearMax Colour Voice .		. 022,	0153, 0153, 0153, 0153, 0153,	0315 0899 . 022 0797 .0014 0899 0022 0022 0153 0315 0883 0883 0883 0031
0017 Allegro Antronix Archer Bell & Howel. Bell South Cabletenna Cableview Century Citizen Clearmaster . Colour Voice . Comtronics		. 022,	0153, 0153, 0153, 0153, 0153,	0315 0899 . 022 0797 .0014 0899 0022 0153 0315 0883 0883 0883 0031
0017 Allegro Americast Antronix Pell & Howel. Bell South Cabletenna Cabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Comtronics Contec		. 022,	0153, 0153, 0153, 0153, 0153, 0025,	0315 0899 .022 0797 .0014 0899 0022 0153 0315 0883 0883 0031 0040 0019
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cableview Cableview Century Citizen Citizen Clearmaster . Colour Voice . Comtronics Contec Contec		. 022,	0153, 0153, 0153, 0153, 0153, 0025,	0315 0899 . 022 0797 .0014 0899 0022 0153 0315 0883 0315 0883 0031 0040 0019 0883
0017 Allegro Americast Antronix Pell & Howel. Bell South Cabletenna Cabletenna Cableview Century Citizen ClearMax Clearmaster Colour Voice Comtronics Contec		. 022,	0153, 0153, 0153, 0153, 0153, 0025,	0315 0899 . 022 0797 .0014 0899 0022 0153 0315 0883 0315 0883 0031 0040 0019 0883
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cableview Cableview Century Citizen Citizen Clearmaster . Colour Voice . Comtronics Contec Contec		. 022,	0153, 0153, 0153, 0153, 0025,	0315 0899 . 022 0797 .0014 0899 0022 0153 0315 0883 0031 0040 0019 0883 0637
0017 Allegro Americast Archer Bell & Howel. Bell South Cabletenna Cableview Citizen Citizen Citizen Cableview Citizen Cableview Citizen Colour Voice . Contronics Coolmax Digi Director		. 022,	0153, 0153, 0153, 0153, 0025,	0315 0899 .022 0797 .0014 0899 0022 0153 0315 0883 0883 0883 0031 0040 0019 0883 0637 0476
0017 Allegro Antericast Archer Bell & Howel. Bell South Cabletenna Cableview Cableview Cableview Citizen Citizen ClearMax Clearmaster Colour Voice . Contronics Colour Voice . Contronics Coolmax Digi Director Dumont		. 022,	0153, 0153, 0153, 0153, 0025,	0315 0899 .022 0797 .0014 0899 0022 0153 0315 0883 0031 0040 0019 0883 0637 0476 0637
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cableview Cableview Century ClearMax ClearMax ClearMax Colour Voice Contronics . Contronics Coolmax Director Dumont Emerson		. 022,	0153, 0153, 0153, 0153, 0025,	0315 0899 . 022 0797 .0014 0899 0022 0153 0315 0883 0031 0040 0019 0883 0637 0637 0797
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cableview Cableview Century Century Citizen Citizen ClearMax Colour Voice . Contronics Contec Contec Digi Director Dumont Ewerson Everquest		. 022,	0153, 0153, 0153, 0153, 0025, 0025, 0015,	0315 0899 . 022 0797 .0014 0899 0022 0153 0883 0031 0040 0019 0883 0637 0476 0637 0797 0040
0017 Allegro Americast Archer Bell & Howel. Bell South Cableview Century Century Citizen Citizen Citizen Colour Voice . Comtronics Contec Contec Digi Director Emerson Everquest Focus		. 022,	0153, 0153, 0153, 0153, 0025, 0025, 0015,	0315 0899 0797 0014 0899 0022 0153 0315 0883 0883 0031 0040 0019 0883 0637 0476 0637 0476 0637
0017 Allegro Americast Archer Bell & Howel. Bell South Cabletenna Cabletenna Cableview C		. 022,	0153, 0153, 0153, 0153, 0025, 0025,	0315 0899 . 022 0797 .0014 0899 0022 0153 0883 00315 0883 0031 0040 0019 0883 0637 0476 0637 0797 00400 0400 0400
0017 Allegro Americast Antronix Pell & Howel. Bell South Cabletenna Cabletenna Cableview Cableview Century Citizen Citizen ClearMax ClearMax ClearMax Colour Voice Contronics Contec Coolm Voice Coolmax Digi Director Director Director Everquest Focus Garrard Gemini		. 022,	0153, 0153, 0153, 0025, 0025, 0015, 0015,	0315 0899 . 022 0797 .0014 0899 0022 0153 0315 0883 0031 0040 0019 0883 0637 0476 0637 0797 0040 00153 0797
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cableview Cableview Century Citizen Citizen Citizen Cearmaster . Colour Voice Contronics Coolmax Coolmax Director Director Dumont Ewerguest Focus Garrard Gemini General Instru	ment.	. 022,	0153, 0153, 0153, 0025, 0025, 0015, 0015, 0015, 0015,	0315 0899 .022 0797 .0014 0899 0022 0153 0315 0883 0031 0040 0040 0040 0637 0476 0637 04400 0400 0153 0797 0040 0011,
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cableview Cableview Century Century Citizen Citizen ClearMax Clearmaster . Colour Voice . Contronics Contec Contec Contec Contec Contec Digi Digi Director Dumont Ewerson Everquest Focus Garrard General Instru	ment.	. 022,	0153, 0153, 0153, 0025, 0025, 0025, 0015, 0015, 0015, 0015, 0015, 0003, 00276,	0315 0899 0797 .0014 0899 0022 0153 0315 0883 0031 0040 0040 0400 0400 0477 0476 0637 0476 0637 0477 04400 0153 0797 0040 0400 0153 0797
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cableview Cableview Century Century Citizen Citizen ClearMax Clearmaster . Colour Voice . Contronics Contec Contec Contec Contec Contec Digi Digi Director Dumont Ewerson Everquest Focus Garrard General Instru	ment.	. 022,	0153, 0153, 0153, 0025, 0025, 0025, 0015, 0015, 0015, 0015, 0015, 0003, 00276,	0315 0899 0797 .0014 0899 0022 0153 0315 0883 0031 0040 0040 0400 0400 0477 0476 0637 0476 0637 0477 04400 0153 0797 0040 0400 0153 0797
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cableview Cableview Century Century Citizen Century ClearMax Clearmaster . Colour Voice . Contronics . Contec Contec Digi Director Digi Director Ewerguest Focus Garrard General Instru  GoldStar	ment.	. 022,	0153, 0153, 0153, 0153, 0025, 0025, 0025, 0015, 0015, 0015, 0015, 0015, 0015, 0003, 00276, 00276, 00240,	0315 0899 0797 .0014 0899 0022 0153 0883 00315 0883 00315 0883 00310 0400 0400 0400 0400 0400 0400 04
0017 Allegro Americast Archer Bell & Howel. Bell South Cableview Cableview Cableview Cableview Cableview Cableview Cableview Cabler Cable	ment.	. 022,	0153, 0153, 0153, 0153, 0025, 0015, 0015, 0015, 0003, 0276, 0040,	0315 0899 . 022 0797 .0014 0899 0022 0153 0883 0031 0040 00400 0637 0797 0797 00400 0153 0797 00410 0153 0797
0017 Allegro Americast Archer Bell & Howel. Bell South Cableview C	ment.	. 022,	0153, 0153, 0153, 0153, 0153, 0015, 0025, 0015, 0015, 0015, 0015, 0016, 0034,	0315 0899 . 022 0797 .0014 0899 0022 0153 0883 0031 0040 0040 0040 0040 00400 0153 0797 0011, 0810 0014 0797 0273
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cableview Cableview Cableview Cableview Cableview Cableview Cableriew Cableriew Cableriew Cableriew Cableriew Cableriew Cableriew Cableriew Cableriew Cableriew Cableriew Cableriew Cableriew Cableriew Cableriew Cableriew Calleriew Colour Voice Colour Voice Colour Voice Colour Voice Coolmax Coolmax Coolmax Director Director Dumont Ewerquest Focus Garrard General Instru  GoldStar Hamlin Hitachi	ment	. 022,	0153, 0153, 0153, 0025, 0025, 0025, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0025, 0015, 0025, 0015, 0025, 0025, 0025, 0015, 0025, 0025, 0025, 0015, 0025, 0015, 0025, 0015, 0025, 0015, 0025, 0015, 0025, 0015, 0025, 0015, 0015, 0025, 0015, 0015, 0025, 0010, 000,000,000,000,000,000,000,000,	0315 0899 0797 .0014 0899 0022 0153 0315 0883 0031 0040 0040 0040 0040 0637 0476 0637 0440 0637 0040 0400 0153 0797 0040 0011, 0810 0114 0797 0273 0011
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cableview Cableview Cableview Century Citizen ClearMax ClearMax ClearMax Clearmaster . Colour Voice Contronics Contronics Contronics Contronics Contec Contronics Contec	ment.	. 022,	0153, 0153, 0153, 0153, 0025, 0025, 0025, 0015, 0015, 0003, 0276, 0003, 0034, 0153,	0315 0899 0797 .0014 0899 0022 0022 00153 0315 0883 0031 0040 0040 0400 0400 0400 0400 040
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cableview Cableview Century Citizen Citizen Citizen Century Colour Voice Contronics Contec Contec Contronics Contec C	ment.	. 022, 	0153, 0153, 0153, 00153, 0025, 0015, 0015, 0015, 0015, 0003, 0015, 0003, 00276, 0003, 00276, 0034, 00153, 0015,0005,0000,00000,00000,00000,000000,00000,0000	0315 0899 0797 .0014 0899 0022 0022 0022 0025 0315 0883 0031 0040 0040 0400 0400 0400 0400 040
0017 Allegro Americast Archer Bell & Howel. Bell South Cableview Cableview Cableview Cableview Cableview Cableview Cableriew Contec Coolmax Digi Coolmax Digi Director Digi Director Director Director Director Coolmax Coolmax Director Director Coolmax Coolmax Coolmax Garrard General Instru  Goodmind Hamlin Jasco 0015	ment.	. 022,	0153, 0153, 0153, 0153, 0025, 00153, 0015, 0015, 0015, 0003, 0276, 0040, 0034, 0153, 0012, 0012, 0012, 0012, 0012, 0012, 0012, 0012, 002, 00	0315 0899 0022 00153 0883 00315 0883 0031 0040 0040 0040 0040 0400 0153 0637 0797 0797 0797 0040 0400 0400 0400 040
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cabletenna Cabletenna Cabletenna Cabletenna Cabletriew	ment.	. 022, 	0153, 0153, 0153, 0025, 0025, 0015, 0015, 0015, 0015, 0040, 0034, 0034, 0034, 0015, 0034, 0015,	0315 08899 .022 0022 0022 0022 0022 0022 0022 00
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cabletenna Cabletenna Cabletenna Cabletenna Cabletenna Cabletenna Cableview Cabletenna Cableview Cabletenna .	ment.	. 022, 	0153, 0153, 0153, 0153, 0025, 0025, 0025, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 002,000,000,000,000,000,000,000,000,00	0315 0899 0797 0014 0899 0022 0153 0315 0883 0315 0883 0040 0040 0040 0637 0797 0476 0637 0797 0040 0400 0153 0797 0011, 0810 0797 0011, 0810 0153 0797 0011, 0810 0153 0797 0014, 0797 0014, 0797 0014 0400 0400 0400 0400 0400 0400 040
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cabletenna Cabletenna Cabletenna Cabletenna Cabletriew	ment.	. 022, 	0153, 0153, 0153, 0153, 0025, 0025, 0025, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 002,000,000,000,000,000,000,000,000,00	0315 0899 0797 0014 0899 0022 0153 0315 0883 0315 0476 0637 0476 0637 0797 0440 0400 0153 0797 0011, 0810 0453 0797 0011, 0810 0144, 0810 00273 0014, 0810, 0810, 0810, 0810, 0810, 0810, 0810, 0810, 0815, 002, 0273 0014, 0273 0014, 0273 0014, 0273 0014, 0273 0014, 0273 0014, 0476 0476 0476 0476 0476 0476 0476 0476
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cableview Cableview Cableview Century Citizen Citizen ClearMax ClearMax ClearMax ClearMax Colour Voice Contronics Contronics Contronics Contec Contronics Contec Contronics Contec Contronics Contec Contronics Contec Contronics Contec Contronics Contec Contronics Contec Contronics Contronics Contec Contronics Contec Contronics Contec Contronics Contec Contronics Contec Contronics Contec Contronics Contec Contronics Goodmind Hitachi Jasco Motorola Movie Time	ment.	. 022, 	0153, 0153, 0153, 0025, 0025, 0025, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0025, 005, 00	0315 0899 0797 .0014 0899 0022 0022 0022 0025 0315 0883 0031 0040 0040 0400 0400 0400 0400 040
0017 Allegro Americast Antronix Archer Bell & Howel. Bell South Cableview .	ment.	. 022, 	0153, 0153, 0153, 0025, 0025, 0025, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0015, 0025, 005, 00	0315 0899 0797 .0014 0899 0022 0022 0022 0025 0315 0883 0031 0040 0040 0400 0400 0400 0400 040

# THE REMOTE CONTROL



# PVR/VCR, CABLE, SATELLITE, DVD AND AUDIO CODES FOR REMOTE CONTROL

	NSC Novaplex Oak			0618
	Optimus			0021
	Pace			
	Panther			0637
	Paragon			
	Pioneer 0023,			
	Popular Mechanics			
	Pulsar			
	Quasar			
	RCA			
	Recoton			0400
	Regal			
	Runco			.0000
	SL Marx			
	Scientific Atlanta		0877,	0008,
	Signal			
N. 1941 - 1	Signature			0011
and A	Sony			
O	Starcom			
Ω	Stargate			
2	Starquest			
Ő	Supermax			0883
Ö	TFC			
	Tandy			0258
	TeleCaption			
Q	Timeless			0040
N N	Tocom			
Ω <b>C</b>	Toshiba			0000
LLI	Tristar			
	Unika		0022,	0153
ŀ	Universal			
	ViewMaster			0883
	Viewstar.			
	Vortex View		· · · · ·	0883
	Zenith 0000, Zentek	0054,	0525,	0899 0400
	SATELLITE BRAND	(Set-T	op-Bo	x)
	AlphaStar			
	Amway			
	BSR			0095
	Cable Innovations Capetronic			
	Century			0856
	Channel Master			
	Conifer			
	Crossdigital			
	Curtis Mathes			
	DirecTV 0392, 0566,	0639,	1639,	1142,
	1053, 1054,	1442,	1443,	1444
	Dish Network System			
	Drake	0018,	0064,	0245
	Echostar			
	Expressvu			0775
	GE			0566

GOI		0775
General Instrument 0869,	0547,	0554
Gradiente		0856
HTS		0775
Hitachi		
homecable		
Hughes Network Systems .		
Hytek		
IQ		
IQ Prism		
Innova Intersat		
JVC		
Janeil		
Legend		
Macom		
Magnavox		
Memorex		
Mitsubishi		
Motorola		
Netsat		
Next Level		
Norsat		
Pace		0455
Panasonic 0247,	0701,	0152
Paysat		0724
Philips 1142, 0749,		
	,	
Pico		
Proscan		
RCA	0855,	0143
Radioshack		
Ramsey		
Realistic	1050	0052
SKY		
Samsung		1109
Sony		
Star Choice		
Star Trak 0180,	0421,	0547
Star Trak 0180, Strong	0421,	0547 0421
Star Trak 0180, Strong	0421,  1443,	0547 0421 1444
Star Trak 0180, Strong	0421,  1443, 1749, (	0547 0421 1444 0790,
Star Trak         0180,           Strong         1           Tivo         1142, 1442,           Toshiba         0749,	0421, 1443, 1749, ( 1052, 1	0547 0421 1444 0790, 1053,
Star Trak         0180,           Strong         1142, 1442,           Tivo         1142, 1442,           Toshiba         0749,	0421, 1443, 1749, ( 1052, 1287,	0547 0421 1444 0790, 1053, 1289 0547
Star Trak         0180,           Strong         1142, 1442,           Toshiba         0749,	0421, 1443, 1749, ( 1052, 1287, 	0547 0421 1444 0790, 1053, 1289 0547 0074,
Star Trak         0180,           Strong         1142, 1442,           Tivo         1142, 1442,           Toshiba         0749,	0421, 1443, 1749, ( 1052, 1287,  0052, ( 0370,	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554
Star Trak         0180,           Strong         1142, 1442,           Toshiba         0749,	0421, 1443, 1749, ( 1052, 1287,  0052, ( 0370,	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554
Star Trak       0180,         Strong       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         1054, 1285, 1286,       Town & Country.         Uniden       0724, 0722,         0076, 0238,       Zenith         Zenith       0856, 1856,	0421, 1443, 1749, ( 1052, 1287,  0052, ( 0370,	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554
Star Trak         0180,           Strong         1142, 1442,           Tivo         1142, 1442,           Toshiba         0749,	0421, 1443, 1749, ( 1052, 1287,  0052, ( 0370, 0061,	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554
Star Trak       0180,         Strong       1142, 1442,         Toshiba       0749,	0421, 1443, 1749, (1 1052, 1287, 	0547 0421 1444 0790, 1053, 1289 0547 0054, 0554 0064 <b>CODE</b> 0406
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,	0421, 1443, 1749, (1 1052, 1 1287, 0052, (1 0370, 0061, C	0547 0421 1444 0790, 1053, 1289 0547 0074, 0054 0064 <b>:ODE</b> 0406 0674
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,	0421, 1443, 1749, ( 1052, 1287, 	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,	0421, 1443, 1749, ( 1052, 1287, 	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269 0300
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,	0421, 1443, 1749, ( 1052, 1287, 0052, ( 0370, 0061, C	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>CODE</b> 0406 0674 0269 0300 0160
Star Trak       0180,         Strong       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         1054, 1285, 1286,       Town & Country.         Uniden       0724, 0722,         0076, 0238,       Zenith         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes       Denon.         Durabrand       Ourabrand	0421, 1443, 1749, ( 1052, 1287, 	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269 0300 0160 1561
Star Trak       0180,         Strong       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         10104, 1285, 1286,       1004, 1285, 1286,         Town & Country.       0076, 0238,         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes       Denon.         Durabrand       GE	0421, 1443, 1749, ( 1052, 1287, 0052, ( 0370, 0061, C	0547 0421 1444 0790, 1053, 1289 0547 0054 00547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269 0300 0300 0300 0160 1561 0078
Star Trak       0180,         Strong       1142, 1442,         Toshiba       0749,	0421, 1443, 1749, ( 1052, 1287, 0052, ( 0370, 0061, C	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>CODE</b> 0406 0674 0269 0300 0160 1561 1561 0078 0892
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,	0421, 1443, 1749, ( 1052, 1287, 0052, ( 0370, 0061, C	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269 0300 0160 1561 1561 0078 0892 0331
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         Uniden       0724, 0722,         0076, 0238,       2enith         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes       Denon.         Durabrand       GE         Harman/Kardon       JVC.         Left Coast	0421, 1443, 1749, ( 1052, ° 0052, ( 0370, 0061, C	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269 0300 0160 1561 0078 0300 0160 1561 0078 0331 0892
Star Trak       0180,         Strong       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         1054, 1285, 1286,       Town & Country.         Uniden       0724, 0722,         0076, 0238,       Zenith         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes.       Denon.         Durabrand       GE         Harman/Kardon       JVC.         Left Coast       Lenoxx.	0421, 1443, 1749, ( 1052, 1287, 1287, 0052, 00370, 0061, C	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269 0300 0160 1561 0078 0892 0331 0892 1561
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         Uniden       0724, 0722,         0076, 0238,       2enith         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes       Denon.         Durabrand       GE         Harman/Kardon       JVC.         Left Coast       Lenoxx.	0421, 1443, 1749, ( 1052, 1287, 0052, ( 0370, 0061, C	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269 0300 0406 0674 0269 0300 1561 0892 0331 1561 0269
Star Trak       0180,         Strong       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         1054, 1285, 1286,       Town & Country.         Uniden       0724, 0722,         0076, 0238,       Zenith         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes       Denon.         Durabrand       GE         Harman/Kardon       JVC.         Left Coast       Lenoxx.         Linn       Luxman	0421, 1443, 1749, ( 1052, 1287, 1287, 0052, ( 00370, 0061, C	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269 0300 0160 1561 0078 0892 0331 0892 0331 0892 0331
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         1054, 1285, 1286,       Town & Country.         Uniden       0724, 0722,         0076, 0238,       Zenith         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes       Denon.         Durabrand       GE         Harman/Kardon       JVC         Left Coast       Lenoxx.         Linn       Luxman         Magnavox       Magnavox	0421, 1443, 1749, ( 1052, 1287, 00052, ( 0370, 0061, <b>C</b>	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0406 0406 0674 0300 0160 1561 0078 0331 0892 0331 0892 1561 0269 0165 0269
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         Cown & Country.       0076, 0238,         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes       Denon.         Durabrand       GE         Harman/Kardon       JVC.         Left Coast       Lenoxx.         Linn.       Luxman         Magnavox       Magnavox         Marantz       0269,	0421, 1443, 1749, ( 1052, 1287, 00052, ( 0370, 0061, <b>C</b>	0547 0421 1444 0790, 1053, 1289 0547 0074, 00554 00674 00674 00674 00674 00674 00406 0674 00269 0300 0160 1561 0078 0892 0331 0892 1561 0269 0165 0269 0165 0269 0892
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         1054, 1285, 1286,       Town & Country.         Uniden       0724, 0722,         0076, 0238,       Zenith         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes       Denon.         Durabrand       GE         Harman/Kardon       JVC         Left Coast       Lenoxx.         Linn       Luxman         Magnavox       Magnavox	0421, 1443, 1749, ( 1052, 1287, 00052, ( 00370, 0061, C	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269 0160 1561 0078 0892 1561 0269 0165 0269 0165 0269 0165
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         1054, 1285, 1286,       Town & Country.         Uniden       0724, 0722,         0076, 0238,       Zenith         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes.       Denon.         Durabrand       GE         Harman/Kardon       JVC.         Left Coast       Lenoxx.         Linn       Luxman         Magnavox       Marantz       0269,	0421, 1443, 1749, ( 1052, 1287, 1287, 0052, ( 00370, 0061, C	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269 0300 0160 1561 0078 0892 0331 0892 1561 0269 0165 0269 0165 0269 01265 0264 0321
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         1054, 1285, 1286,       Town & Country.         Uniden       0724, 0722,         0076, 0238,       Zenith         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes.       Denon.         Durabrand       GE         Harman/Kardon       JVC.         Left Coast       Lenoxx.         Linn       Luxman         Magnavox       Marantz       0269,         NEC       Nakamichi       0269,	0421, 1443, 1749, ( 1052, 1287,  0052, ( 0370, 0061,  C  0061,  00321,  0321, 	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269 0300 0160 1561 0078 0892 0331 1561 0269 0165 0269 0165 0269 0892 0321 0300
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         Uniden       0724, 0722,         0076, 0238,         Zenith       0856, 1856,         AMPLIFIER BRAND.         Aiwa         Bose         Carver         Curtis Mathes         Denon         Durabrand         GE         Harman/Kardon         JVC         Linn         Luxman         Magnavox         Marantz       0269,         NEC         Nakamichi       0219,	0421, 1443, 1749, ( 1052, 1287, 00052, ( 0370, 0061, C	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0406 0406 0406 0674 0269 0300 0160 1561 0269 0331 0892 1561 0269 0331 0892 1561 0269 0165 0269 0165 0269 0165 0269 0165 0269 0165
Star Trak       0180,         Strong	0421, 1443, 1749, ( 1052, 1287, 00052, ( 0370, 0061, <b>C</b> 0370, 0061, <b>C</b> 0321, 0395, 0395, 0308,	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0406 0674 0406 0674 0269 0300 0160 1561 0078 0892 0300 0165 0892 0165 0269 0165 0269 0165 0269 0264 0321 0300
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         Cown & Country.       0076, 0238,         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes       Denon.         Durabrand       GE         Harman/Kardon       JVC.         Left Coast       Lenoxx.         Linn.       Luxman         Magnavox       Marantz       0269,         NEC       Nakamichi       Optimus.         Parasound       Parasound.       Parasound.	0421, 1443, 1749, ( 1052, 1287, 00052, ( 00370, 0061, C C 0370, 0061, C C 0321, 0395, 0308, 0269, 0269,	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269 0160 1561 0078 0300 0160 1561 0078 0331 0892 1561 0269 0165 0269 0165 0269 0165 0269 0165 0269 0165 0269 0165 0269 0264 0321 0300 0264 0321
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         Uniden       0724, 0722,         0076, 0238,         Zenith       0856, 1856,         AMPLIFIER BRAND.         Aiwa         Bose         Carver         Curtis Mathes.         Denon.         Durabrand         GE         Harman/Kardon         JVC         Left Coast         Lenoxx.         Linn.         Luxman         Magnavox         Marantz       0269,         NEC         Nakamichi         Optimus.         Parasound.         Philips         Pioneer         Polk Audio	0421, 1443, 1749, ( 1052, 1287,  00052, ( 0370, 0061,  00061,  00061,  00061,  0005, 00013, 0269, 0269, 0269, 0269,	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269 0300 0300 0300 0561 0269 0165 0269 0165 0269 0165 0269 0165 0269 0165 0269 0321 0264 0321 0300 0521 0264 0320 0300 0521
Star Trak       0180,         Strong	0421, 1443, 1749, ( 1052, 1287, C 0370, 0061, C 0370, 0061, C 0370, 00370, 00370, 00370, 00370, 00321, 	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0406 0406 0674 0269 0300 0160 1561 0269 0331 0892 0331 0892 1561 0269 0165 0269 0326 0165 0269 0326 0165 0269 0326 0165 0269 0326 0320 0321 0246 0392 0300
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         1054, 1285, 1286,       Town & Country.         Uniden       0724, 0722,         0076, 0238,       Zenith         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes       Denon.         Durabrand       GE         Harman/Kardon       JVC         Left Coast       Lenoxx.         Linn       Luxman         Magnavox       Marantz         Optimus       Parasound         Philips       Pioneer         Polk Audio       RCA         Realistic       Realistic	0421, 1443, 1749, ( 1052, 1287, 0052, ( 0370, 0061, <b>C</b> 0370, 0061, <b>C</b> 0370, 0370, 0370, 0370, 0370, 0370, 0370, 0321, 0395, 0308, 0269, 0013, 0269, 0269,	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0406 0674 0300 0160 1561 0078 0300 0160 1561 0078 0331 0892 0331 0892 0333 0892 0369 0165 0269 0892 0264 0320 0300 0320 0321 0246 0392 0300 0395
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         Cown & Country.       0076, 0238,         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes       Denon.         Durabrand       GE         Harman/Kardon       JVC.         Left Coast       Lenoxx.         Linn.       Luxman         Magnavox       Marantz         Parasound.       Philips         Pineer       Polk Audio         RCA.       Realistic         Sansui       Sansui	0421, 1443, 1749, ( 1052, 1287, 00052, ( 0370, 0061, C C 0370, 0061, C C 0321, 0395, 0395, 0308, 0269, 0013, 0269, 0013, 0269,	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0406 0674 0300 0160 1561 00782 0300 0160 1561 00782 0331 0892 1561 0269 0165 0269 0165 0269 0165 0269 0321 0300 0521 0300 0521 0300 0521 0300
Star Trak       0180,         Strong       1142, 1442,         Tivo       1142, 1442,         Toshiba       0749,         0061, 0082,       0061, 0082,         1054, 1285, 1286,       Town & Country.         Uniden       0724, 0722,         0076, 0238,       Zenith         Zenith       0856, 1856,         AMPLIFIER BRAND.       Aiwa         Bose       Carver         Curtis Mathes       Denon.         Durabrand       GE         Harman/Kardon       JVC         Left Coast       Lenoxx.         Linn       Luxman         Magnavox       Marantz         Optimus       Parasound         Philips       Pioneer         Polk Audio       RCA         Realistic       Realistic	0421, 1443, 1749, ( 1052, 1287,  0052, ( 0370, 0061,  0061,  0061,  0061,  00321,  0321,  0325, 0308,  03269, 	0547 0421 1444 0790, 1053, 1289 0547 0074, 0554 0064 <b>:ODE</b> 0406 0674 0269 0300 0160 1561 0078 0392 0300 0160 1561 0269 0165 0269 0165 0269 0165 0269 0321 0264 0321 0300 0521 0246 0392 0300 0521

Soundesign		
		211
Yamaha		133
RECEIVER BR	RAND (Amplifier) CO	DE
	05	
Aiwa 1405	, 0121, 0158, 0189, 04	105
Anom		200
	0639, 1229, 12	
Capetronic		531
Carver	1189, 0042, 0 <sup>-</sup>	89
	0 <sup>-</sup>	
	0'	
	13	
Denon		360
	00	
Garrard	04	463
Glory Horse		263
	n0891, 0110, 01	
	rd	
	0'	
	14	
Kenwood	1313, 1570, 15	69,
	. 0027, 0042, 0186, 02	239
LXI	0'	181
	0*	
Magazian	1189, 1269, 0189, 01	100 0r
	1189, 1269, 0189, 01	95,
0391, 0531		
	. 1189, 0039, 0189, 12	
	18	
Modulaire	0'	95
Musicmagic		
		)89
Nakamichi		
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Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio	000 1023, 0042, 0080, 01 1023, 0042, 0080, 01 1081, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 	)97 342 77, 31, )74 367 195 120 80, 330 189
Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio Proscan	003 1023, 0042, 0080, 01 1023, 0042, 0080, 01 0181, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 07 1269, 0189, 0391, 11 1023, 0014, 00 .0150, 0244, 0531, 00 12	)97 342 77, 31, )74 367 195 120 80, 530 189 254
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Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Proscan Quasar RCA	000 1023, 0042, 0080, 01 0181, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 00 	)97 342 77, 31, )74 367 195 120 80, 530 189 254 )39 80,
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Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio Proscan Quasar RCA Radio Shack .	003 0135, 00 1023, 0042, 0080, 01 1081, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 0150, 039, 0391, 11 0150, 0244, 0531, 00 0150, 0244, 0531, 1074, 16 0531, 1074, 16 12	997         342         77,         31,         974         367         195         120         80,         630         189         254         939         80,         609         263
Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio Proscan Quasar RCA Radio Shack . Realistic	0135, 00 1023, 0042, 0080, 01 1023, 0042, 0080, 01 1081, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 	997         342         77,         31,         974         367         195         120         80,         330         189         254         939         80,         309         263         195
Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio Proscan Quasar RCA Radio Shack . Realistic Rio	000 0135, 00 1023, 0042, 0080, 01 0181, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 0738, 0801, 10 0738, 0039, 0309, 03 0, 1269, 0189, 0391, 11 0, 1023, 014, 00 0, 0150, 0244, 0531, 06 12 000 1023, 1254, 00 1023, 1254, 00 0, 0531, 1074, 16 0, 0181, 0 13 0, 0181, 0 13 0, 0181, 0 13 0, 0181, 0 0, 0181, 0 0, 0181, 0 0, 0181, 0 0, 0181, 0 0, 0080	)97 342 77, 31, 974 367 195 120 80, 330 189 254 939 80, 309 263 195 383
Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio Proscan Quasar RCA Radio Shack . Realistic Rio	0135, 00 1023, 0042, 0080, 01 1023, 0042, 0080, 01 1081, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 	)97 342 77, 31, 974 367 195 120 80, 330 189 254 939 80, 309 263 195 383
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Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Proscan Quasar RCA Radio Shack . Realistic Rio Sansui Sanyo	000 0135, 06 1023, 0042, 0080, 01 0181, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 01269, 0189, 0391, 11 0123, 0014, 00 0150, 0244, 0531, 1074, 10 0161, 00 0174, 10 0181, 00 0174, 10 0181, 00 0174, 10 0181, 00 0174, 10 0181, 00 0174, 10 0181, 00 0174, 10 0174,	097         342         77,         31,         074         367         195         120         80,         630         2254         339         80,         609         263         195         383         189         251
Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Proscan Quasar RCA Radio Shack . Realistic Sansui Sanyo Scott	000 1023, 0042, 0080, 01 1023, 0042, 0080, 01 10181, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 	097         342         77,         31,         074         367         195         120         80,         330         880,         309         254         380,         309         263         195         383         189         251         322
Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio Proscan Quasar. RCA Radio Shack . Realistic Rio Sansu Scott Sharp	0135, 00 1023, 0042, 0080, 01 1023, 0042, 0080, 01 1081, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 	097         342         77,         31,         074         367         195         120         80,         630         189         2254         039         80,         609         263         195         383         189         251         322         186
Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio Proscan Quasar RCA Radio Shack . Realistic Rio Sanyo Sharpe Sharpe Sharpe	000 0135, 00 1023, 0042, 0080, 01 0181, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0391, 00 0738, 0801, 10 0738, 0801, 10 0150, 0244, 0531, 00 0150, 0244, 0531, 00 0150, 0244, 0531, 00 0150, 0244, 0531, 00 1023, 1254, 00 01023, 1254, 00 00 00 00 00 00 00 00 00 00	097           342           77,           31,           074           367           195           120           80,           330           189           254           363           195           263           880,           263           883           889           251           322           186           263
Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio Proscan Quasar RCA Radio Shack . Realistic Rio Sansui Sansui Sharper Image Sherwood	000 0135, 00 1023, 0042, 0080, 01 0181, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 07, 1269, 0189, 0391, 11 0150, 0244, 0531, 00 0150, 0244, 0531, 00 0150, 0244, 0531, 00 0150, 0244, 0531, 00 1023, 1254, 00 01023, 1254, 00 0000, 00000, 0000, 0000, 0000, 0000, 0000, 0000, 00000, 0000,	097           342           77,           31,           074           367           195           120           80,           330           189           254           3630           189           251           322           188           251           322           186           263           3251           3222           186           263           502
Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Proscan Quasar RcA RcA Radio Shack . Realistic Rio Sansui Sansui Sharpe Sharpe Sharpe Sharpe Sharpe Sharpe Sonic Blue	000 0135, 00 1023, 0042, 0080, 01 1081, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 07 1269, 0189, 0391, 11 0150, 0244, 0531, 00 0150, 0244, 0531, 00 0150, 0244, 0531, 00 0150, 0244, 0531, 00 00 0531, 1074, 16 0181, 01 00 0163, 03 00 0163, 03 0491, 05 0491, 05 04 04 04 04 04 04 04 04 04 04	097           342           77,           31,           074           367           195           120           880,           389           2254           383           1895           263           283           1895           281           282           186           263           322           186           263           383           382           383
Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Proscan Quasar RcA RcA Radio Shack . Realistic Rio Sansui Sansui Sharpe Sharpe Sharpe Sharpe Sharpe Sharpe Sonic Blue	000 0135, 00 1023, 0042, 0080, 01 1081, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 07 1269, 0189, 0391, 11 0150, 0244, 0531, 00 0150, 0244, 0531, 00 0150, 0244, 0531, 00 0150, 0244, 0531, 00 00 0531, 1074, 16 0181, 01 00 0163, 03 00 0163, 03 0491, 05 0491, 05 04 04 04 04 04 04 04 04 04 04	097           342           77,           31,           074           367           195           120           880,           389           2254           383           1895           263           283           1895           281           282           186           263           322           186           263           383           382           383
Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio Proscan Quasar Radio Shack . Realistic Radio Shack . Realistic Sanyo Scott Sharp Sharp Sharp Sharp Sharp Sharp Sharp Sharp Sharp Sonic Blue Sonic Blue Sony.	003 0135, 00 1023, 0042, 0080, 01 1081, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 	097         342         77,         31,         074         367         195         1920         80,         330         189         254         3630         189         254         363         189         251         322         186         263         251         322         186         263         383         189         251         322         186         263         383         189         251         322         188         263         363         583         584         585         42
Onkyo Optimus Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio Proscan Quasar RCA Radio Shack . Realistic Sansyo Scott Sharpe	0135, 00 1023, 0042, 0080, 01 1023, 0042, 0080, 01 0181, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 	097         342         77,         31,         074         367         195         1920         80,         330         189         254         3630         189         254         363         189         251         383         189         251         383         389         251         383         389         251         383         389         251         383 <td< td=""></td<>
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Onkyo Optimus Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio Proscan Quasar Radio Shack . Realistic Radio Shack . Realistic Sanyo Scott Sharper Image Sherwood Sonic Blue Sonic Blue Sonic Blue Sonic Blue Soundesign Stereophonics Sunfire Teac Teac Teachics	000 1023, 0042, 0080, 01 1023, 0042, 0080, 01 10181, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 	097         342         777,         31,         367         195         120         880,         3389         223         1889         2322         1880         2322         1882         2322         1883         2833         584,         2095         383,         1892         2322         1863         2023         358,         142         3033         313,         313,
Onkyo Optimus Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio Proscan Quasar Radio Shack . Realistic Radio Shack . Realistic Sanyo Sanyo Sonyo Sharp Soundesign Stereophonics Sunfire Teac Thorens	003 1023, 0042, 0080, 01 1023, 0042, 0080, 01 10181, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 	097 342 77, 31, 367 195 195 195 195 195 195 195 195 195 195
Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio Proscan Quasar RCA Radio Shack . Realistic Rio Sanyo Scott Sharpe Soundesign Stereophonics Sunfire Technics Thorens Toshiba	0135, 00 1023, 0042, 0080, 01 1023, 0042, 0080, 01 0181, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 	097 342 777, 31, 367 195 195 195 195 195 195 195 195 195 195
Onkyo Optimus Panasonic Penney Philips . 1189 Pioneer Polk Audio Proscan Quasar RCA Radio Shack . Realistic Rio Sanyo Scott Sharpe Soundesign Stereophonics Sunfire Technics Thorens Toshiba	003 1023, 0042, 0080, 01 1023, 0042, 0080, 01 10181, 0186, 0219, 05 0670, 0738, 0801, 10 1518, 0039, 0309, 03 	097 342 777, 31, 367 195 195 195 195 195 195 195 195 195 195

# **ON-SCREEN DISPLAY (OSD)**

- 1. Press MENU on the remote control to display the different features on your HITACHI LCD TV.
- 2. Press the CURSOR PAD to highlight a different feature.
- 3. Press EXIT on the remote control to quickly exit from a menu.







**NOTE:** The Language, Digital Output, and the Dynamic Range Compression feature of the Audio OSD are only available for Digital channels.

# **ON-SCREEN DISPLAY (OSD)**

y		-
Channe1	Set the Antenna	Set Antenna settings.
	Auto Channel Scan	Set Auto Channel Scan.
Manager	Signal Meter	Access Signal Meter.
<b>y</b>	Channel List	Set Channel List.
	Change Access Code	Change Lock access code.
	Engage Lock	Choose to lock channel, video input, and/or front panel.
	TV Time Lock	Set specific time to Lock TV.
	Movie Ratings	Block various types of movies and video types based on motion
		picture ratings.
Locks ——>	TV Ratings	Block various types of movies and television programming based on a parental guide ratings.
	Canadian Ratings (ENG)	Block various types of movies and television programming based on the Canadian ratings system.
	Canadian Ratings (FRN)	Block various types of movies and television programming based on the Canadian French ratings system.
	Set the Clock	Set Clock Settings.
	Set Sleep Timer	Set Sleep Timer intervals (30 min. intervals, 00:30-3:00).
Timers >	Set Day/Night Timer	Set Day/Night picture mode settings.
	Set Event Timer	Set viewing reservation for TV programs.
	Set Auto Power Off	Set TV to turn off automatically when a video signal is not detected for 15
		minutes.
	Menu Preference	Choose English, French, or Spanish text.
	Screen Saver	Set the Screen Saver.
	Set The Inputs	Label Video Inputs , VCR, DVD, etc.
	Set Black Side Panel	Set the gray side bars on/off when watching 4:3 signals in standard mode.
	Set Closed Captions	Feature to display dialogue/text.
	Set Monitor Out	_ Set Monitor Out source.
Setup>	CableCARD Info	Select to access CableCARD information.
	Set AV Control	Select to set RS232C feature.
	Upgrades	Select to upgrade TV software.
	Quick Start Up	Select the TV Quick Start Up options.

NOTES:

1. The Signal Meter feature of the Channel Manager OSD is only available for ATSC signals.

2. The CableCARD information feature of the Setup OSD is only available when a CableCARD from your cable operator is installed in the rear panel of the TV.

# 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. If RESET is selected, only the selected input will reset to initial conditions.

Picture Mode

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



Use CURSOR PAD ◀ or ▶ to highlight and select Picture Mode settings.

Function	Day	Night	Reset
Contrast	100%	90%	Reset the video
Brightness	50%	50%	menu settings on
Color	50%	30%	current input to the
Tint	50%	50%	Day or Night
Sharpness	50%	30%	conditions depending
Color Temperature	High	Standard	on the selected
Black Enhancement	High	Off	VIDEO mode.
Contrast Mode	Dynamic	Normal	
Auto Color	Off	Off	
Noise Reduction	Low	Low	
Color Management (Set User Colors)	Off	Off	
Auto Movie Mode (TV/Cinema Detection)	Off	Off	

Press EXIT to quit menu or select PICTURE MODE to return to previous menu.

# VIDEO

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

Press the CURSOR PAD ◀ or ► to adjust the function. Press the SELECT button to select the function settings. Press MENU to return to main menu or select PICTURE MODE to return to previous menu. Press EXIT to quit menu.

Use this function to change the contrast between black and white levels in the picture.
Use this function to adjust overall picture brightness.
Use this function to adjust the level of color in the picture.
Use this function to adjust flesh tones so they appear natural.
Use this function to adjust the amount of fine detail in the picture.
Set this to High for cooler color with more blue, set to Medium for more natural color, set to Standard for accurate color or set to Black/White for more reddish color.
Use this function to enhance the shadow detail in dark scenes using the settings off, low, middle and high.
Use this function to choose between 3 Contrast Mode settings. Set to Dynamic for darker images more in the level of Black, set to Normal for a balanced White to Black level, and set to Auto for automatic Contrast selection.
T is selected, you are adjusting CONTRAST. The additional menu items BRIGHTNESS, COLOR, TINT, IESS can be selected and adjusted in the same manner. decrease automatically if stationary images such as digital photos are left on the screen for more than 3 cessary to adjust TINT to obtain optimum picture quality when using the COMPONENT VIDEO Y-P <sub>B</sub> P <sub>R</sub> and the COMPONENT VIDEO input jacks (Y-P <sub>B</sub> P <sub>R</sub> ) and notice that the TINT and COLOR are abnormal, e sure that the VIDEO-Color System is set properly. share a Video setting. Also, each of the video inputs have their own independent settings. T is set to minimum level, the On-Screen Display (OSD) will be difficult to see.



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



Use CURSOR PAD to highlight functions. Press the SELECT button to select Reset Video Settings.

Use the CURSOR PAD ♥ to access other 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 Video:1 Input, only Video:1 Input will return to factory conditions.



### Color Management

**ON-SCREEN DISPLAY** 

Use this function to adjust and balance the listed individual colors to make them either deeper or more pure depending on the user's preference. Adjust the GAIN settings to make the color brighter (+) or darker (-). Adjust the PHASE settings to make the colors deeper (+) or normal (-) to match real life colors.



Use the CURSOR PAD to highlight function.

Press the SELECT button to select User Colors setting. When the function has a " $\sqrt{}$ " in the box, it is ON. Press the CURSOR PAD  $\blacktriangleleft$ ,  $\blacktriangleright$ ,  $\P$ ,  $\blacktriangle$ , to highlight and adjust individual colors. Use the CURSOR PAD to highlight and select "Reset" to return all colors to default settings.

# VIDEO

### Color Decoding

Use this function to adjust and balance the percentage of Red, Green and Blue according to the user's preference in each of the four color temperature settings. Use TINT to adjust flesh tones so they appear natural.



Use the CURSOR PAD to highlight function.

Press down to select from 4 menu items.

Press the CURSOR PAD ◀, ▶, ♥, ▲, to highlight and adjust Red, Green, Color and Tint. Use the CURSOR PAD to highlight and select "Reset" to return all settings to default.

NOTE: Color Decoding settings are independently stored in each of the 4 Color Temperature settings.

Auto Color	The AUTO COLOR function automatically monitors and adjusts the color to maintain constant color levels even after a program or channel changes. It also maintains natural flesh tones while preserving fidelity of background colors.
	ng Component, HDMI or DVI input, Auto Color will not be available (grayed out). ng digital channels, Auto Color will not be available (grayed out).
Noise Reduction	The NOISE REDUCTION function automatically reduces conspicuous noise in the picture without degrading picture quality. Set NOISE REDUCTION to OFF if the TV experiences picture blocking.
Auto Movie Mode	The Auto Movie Mode function turns ON or OFF the 3:2 PULLDOWN DETECTION SPECIAL 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 pulldown.
	When Auto Movie Mode is turned ON from the VIDEO menu, your Hitachi Projection Television will activate the circuitry for this special feature to improve video performance when watching film based sources.
available	ng Progressive Scan Component, HDMI or DVI input (Ex. 480p, 720p, 1080i), Auto Movie Mode will not be (grayed out). settings are independent of each other based on it's input (ANT A/B, Input 1~5, Photo Input).



Select AUDIO to adjust the TV to your preference and to improve the sound quality.



Video Audio Aspect Chan. Manager Locks Timers Setup & Move (SE) Sel



Audio	
Treble	50%
Bass	50%
Balance	L
SRS	Off
BBE	Hard
Audio Source	Stereo
Internal Speakers	0n
Auto Noise Cancel	Off
Perfect Volume	Off
Loudness	Off
Move <> Change Value	(SE) Return

Press CURSOR PAD ▲, ♥, to select menu item.

Press CURSOR PAD ◀ or ► to adjust the function.

Press EXIT to quit the MENU, or select Audio to return to the main menu.

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

Treble	This function controls the high frequency audio to all speakers.
Bass	This function controls the low frequency audio to all speakers.
Balance	This function will control the left to right balance of the Projection TV internal speakers.
SRS	SRS(O) SRS Based on the principles of the human hearing system SRS 2D technology delivers an exciting and realistic

Based on the principles of the human hearing system, SRS 3D technology delivers an exciting and realistic 3D Sound experience from just two external speakers or the two internal speakers found in your HITACHI Television. SRS will also enhance a complete multi-speaker surround sound system.

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**ON-SCREEN DISPLAY** 

BBE

### BBE Technology

Sound reproduction quality enhancement system. The BBE technology produces sound that is natural and crisp from just two speakers or the two internal speakers found in your HITACHI television. If your HITACHI television is connected to an external audio system, BBE will also create an incredible crisp sound experience from two speakers. BBE brings to the listener's ear a more complete and accurate reproduction of the original performance. Each voice, speaking or singing, each instrument or sound effect is presented with its attendant harmonics or partials more clearly audible. The ear can then more easily recognize the unique tonal colors of each sound as though the sound was being produced live.

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# AUDIO

### 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 2nd Audio Prog (SAP) which may be a secondary language, weather report, etc.

The sources received will be displayed at the top right edge of the TV. The source you select will be displayed above the sources received. See example below for each selection when both stereo and second audio are received (monaural is always received).





SAP SELECTED







Internal Speakers

This function is useful when setting up the external speakers. ON - Select this feature if using the internal speakers only.

TV as Center - Select this feature when setting up external speakers from a separate stereo system. The TV's speakers will work as the center speaker.

OFF - Select this feature if you prefer to use only speakers from a separate stereo system.

Auto Noise Cancel

This function eliminates the noise between stations. If a channel is tuned and is noisy, this function will automatically eliminate the audio for that channel.

Perfect Volume

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

Loudness

This function turns loudness ON or OFF. It will improve the quality of both low and high frequency sounds when listening at low volume levels.

Use the functions below if your TV is connected to an amplifier/receiver with optical digital input with Dolby Digital or PCM decoder capabilities.



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 4 language options (if available).

Digital Output

This function allows you to select between Dolby® Digital and PCM.

Dolby<sup>®</sup> Digital - Select this feature if the TV is connected to an amplifier/receiver with a Dolby<sup>®</sup> Digital only decoder; it will provide six independent soundtrack channels through the optical output jack (Digital Audio).

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 output jack (Digital Audio).

DRC Dynamic Range Compression - Use this function to compress the range of sound volume. By compressing the range of sound volume, it is possible not only to suppress the output of loud sound at night but also to raise the volume of low sound. This is only effective when the TV is connected via the optical out (digital audio) to an amplifier/receiver with a Dolby® Digital decoder. The default setting is ON. Use the CURSOR PAD **4**. In to select the chosen options.

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

**NOTE:** These functions are only available when viewing digital programs.

# ASPECT

Aspect

Use this function to select the Picture Format Aspect Ratio.



### Auto Aspect

Automatically adjust the Aspect Ratio depending on the input signal to fill the screen.

Press THE CURSOR PAD  $\blacktriangle$ ,  $\triangledown$ ,  $\blacklozenge$ ,  $\blacktriangleright$  to select menu item. Press THE SELECT button to select. A " $\sqrt{}$ " in the box indicates that the feature is ON.

NOTES:	<ol> <li>The Auto Aspect function is recommended on an input signal with VIDEO ID.</li> </ol>
	2. The Auto Aspect function is best used on composite video, S-Video, 480i and 480p component signals.
	3. See page 23 for Aspect Mode availability.

### **Vertical Position**

This function allows you to select when aspect style is either 4:3 EXPANDED/ZOOM1/ZOOM2 or 16:9 ZOOM. Vertical position can be changed with these modes. For example, it will be useful for centering the picture area at both the top and bottom of the picture with 480i/480P signal. Adjustable range is -10 (video center is toward bottom of screen) to +10 (video center is toward top of screen).

Press the CURSOR PAD ▲, ♥, to select menu item. Press the CURSOR PAD ◀ or ► to adjust the function. Press EXIT to quit the MENU, or select Aspect to return to the main menu.

NOTE: Vertical Position will not be available in 4:3 Standard and 16:9 Standard modes.



Select Channel Manager to set your Antenna options, run Auto Channel Scan, Check Signal Meter and Set Channel List.



Press CURSOR PAD ▲, ▼ to highlight function, the press the SELECT button to select.

Set The Antenna

This feature will select Antenna options.



Press CURSOR PAD ▲, ▼ to highlight function, the press the SELECT button to select.

**NOTE:** When a CableCARD is installed, antenna settings will be set automatically to "Connect Cable to Ant A only".

Auto Channel Scan This feature will automatically store active TV channels in Auto Channel Scan memory.



NOTE: When a CableCARD is installed, Auto Channel Scan will not be available.

# CHANNEL MANAGER

Signal Meter

Select Signal Meter when using an indoor or outdoor antenna. This feature will show the signal strength and peak values of the Antenna signal to help you adjust your antenna to optimize signal reception.



Use the CURSOR PAD and the SELECT button to highlight and select "close" to exit.

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

Channel List

This function allows you to review which channels are labeled (CH ID), which have been added to Channel Memory (SCAN), which are protected by LOCK and which are your Favorite (FAV) Channels.



Use the CURSOR PAD to navigate the Channel List. Press the CURSOR PAD (▲, ♥) to select On or Off on the Scan column. Press the EXIT button to return to normal viewing.

**NOTE:** When a CableCARD is installed, the Channel List will be dependent on channels agreed upon by you and your cable operator.

## Locks

This function will block out the picture and sound of the selected channel or video input. It can also be used to keep the TV from being viewed for a scheduled time period that you set.

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



Use the CURSOR PAD ▲ or ▼ to highlight function and then press the SELECT button. To change the access code number, select Change Access Code. Enter a new four digit number.

Select CHANGE ACCESS CODE to change the factory preset code (0000) to your preference.

When ENGAGE LOCK is selected, SET CHANNEL LOCK, SET INPUT LOCK, and SET FRONT PANEL LOCK can be set individually.

When SET CHANNEL LOCK is turned on, the picture and sound for the chosen channel will be blocked out.

When SET INPUT LOCK is turned on, the picture and sound for all video inputs and the picture and sound for channels 3, 4 will be blocked out.

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

When TV TIME LOCK is turned on ( $\square$  TIME LOCK) you can set the BEGIN and END times (CURSOR PAD  $\blacktriangleright$ ) and the TV cannot be viewed during that time period (Set clock first). Use CURSOR  $\blacktriangle$  or  $\forall$  to highlight ONCE (TV will time out one time only), DAILY (TV will time out every day), WEEKLY (TV will time out one time a week).

When MOVIE RATINGS is selected, you can block various types of movies and video tapes based on motion picture ratings. Picturein-Picture will also be blocked automatically (see page 55).

When TV RATINGS is selected, various types of television programming based on a parental guide ratings will be blocked. Picture-in-Picture will also be blocked automatically (see page 56).

Use CANADIAN RATINGS to block various types of movies and television programs based on the two rating systems used in Canada that you feel may be inappropriate due to its content (see pages 57-58).

If you forget your access code, use the factory code 7777 to erase your key number. This will reset the access code number back to the factory preset 0000. Press EXIT to guit the menu.

NOTE:

- 1. When using TV TIME LOCK make sure the clock is set (see page 59).
  - 2. Text appears on the screen to indicate that TV TIME LOCK is activated.
  - 3. If MOVIE/TV Ratings Lock function settings are ON, SURF will be deactivated.

# .OCKS

Movie Ratings

Use MOVIE RATINGS to prevent viewing of any movie that you feel may be inappropriate due to its content.

MENU

**Motion Picture Ratings Chart** 

Locks Change Access Code Engage Lock TV Time Lock Movie Ratings TV Ratings	Locks Movie Ratings Status Not Rated: G: PG: D	
Canadian Ratings (Eng) Canadian Ratings (Frn) ♦ Move (美) Select	<pre> PG-13: 6 R: 6 NC-17: 6 X: 6 X: 6  \$ Move (3E) Return </pre>	

Use the CURSOR PAD ▲ or ▼ to select the MOVIE RATING category that you want to block. Press SELECT to block the MOVIE RATING that you have selected. Once rating is selected, for example PG-13, all

Press EXIT to guit the menu or select MOVIE RATING to return to the previous menu.

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

movies rated PG-13 and higher (R, NC-17, and X) will be blocked.

G	General audiences. All ages admit- ted.
PG	<b>Parental guidance suggested</b> . Some material may not be suitable for children.
PG-13	<b>Parents strongly cautioned</b> . Some material may be inappropriate for children under 13.
R	<b>Restricted</b> . Under 17 requires accompanying parent or adult guardian.
NC-17	No one 17 and under admitted.
X	Adults only
NOT BATED (NB)	Contains no rating. Not Rated (NR) and Not Applicable (NA) pro-

NOTES: 1. A movie rating is dependent upon the movie that is viewed. If the movie does not carry a rating, the TV will not block it.

2. Blocking "NOT RATED (NR)" programs may block emergency programming, sports, news, public service announcements, religious programs and weather.

If a CableCARD is installed, your cable operator may provide an Emergency Alert System (EAS) message in the З. event of a local or national emergency with the purpose of alerting the general public. When you receive such messages, the Projection Television will immediately tune to an EAS channel as directed by the EAS message. Please be advised that if the EAS channel is blocked using the Locks feature, you will not be able to tune to that channel.

### TV Ratings



**ON-SCREEN DISPLAY** 

Locks Change Access Code Engage Lock TV Time Lock Movie Ratings TV Ratings Canadian Ratings (Eng) Canadian Ratings (Frn) Canadian Ratings (Frn)

due to its content.



Use the CURSOR PAD ▲ or ♥ to highlight the category that you want to block. Press select to block the TV RATINGS that you have selected. Press EXIT to guit the menu or select TV RATINGS to return to the previous menu.

N/A	None.
TV-Y	<b>All children.</b> The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
TV-Y7	<b>Directed to older children.</b> Themes and ele- ments in this program may include mild physi- cal or comedic violence, or may frighten chil- dren under the age of 7.
TV-G	<b>General audience.</b> It contains little or no vio- lence, no strong language, and little or no sex- ual dialogue or situations.
TV-PG	<b>Parental guidance suggested.</b> The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	<b>Parents strongly cautioned</b> . 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.
TV-MA FV	Mature audiences only. This program may contain mature themes, indecent language,
	Mature audiences only. This program may contain mature themes, indecent language, graphic violence, and explicit sexual content.
FV	Mature audiences only.This program may contain mature themes, indecent language, graphic violence, and explicit sexual content.Fantasy Violence
FV V	Mature audiences only.       This program may contain mature themes, indecent language, graphic violence, and explicit sexual content.         Fantasy Violence         Violence

### TV Parental Guide Ratings Chart

### NOTES:

Use TV RATINGS to prevent the viewing of any TV program that you feel may be inappropriate

- 1. If you Block TV-14D, you will still permit TV MA programs; If you block TV-14DV, 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.
- 2. TV program ratings are dependent on the broadcaster. If the program is not rated, the TV will not block it.
- 3. If a CableCARD is installed, your cable operator may provide an Emergency Alert System (EAS) message in the event of a local or national emergency with the purpose of alerting the general public. When you receive such messages, the Projection Television will immediately tune to an EAS channel as directed by the EAS message. Please be advised that if the EAS channel is blocked using the Locks feature, you will not be able to tune to that channel.

# LOCKS

Canadian Ratings (Eng)

Use Canadian Ratings (Eng) to block any type of movie and television program in Canada that you feel might be inappropriate in its content.



Locks	Locks Canadian Ratings (Eng)
Change Access Code Engage Lock	Status C: É
Movie Ratings	
Canadian Ratings (Eng)	PG: fit 14+: fit
↓ Move (SE) Select	18+: 6
	🗣 Move (SEL) Return

Use the CURSOR PAD ▲ or ♥ to select the CANADIAN RATINGS (Eng) category that you want to block. Press SELECT to set the CANADIAN RATINGS (Eng) that you have selected. Once rating is selected, for example C8+, all movies and television programs rated C8+ and higher (G, PG, 14+ and 18+) will be blocked automatically. Press EXIT to quit menu.

### Canadian Ratings English Chart

2	
С	<b>Programming intended for children under age 8</b> - 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 behav- iour 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+	<b>Programming generally considered acceptable for children 8 years and over to watch on their own -</b> Violence Guidelines: Violence will not be portrayed as the pre-ferred, 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	<b>General Audience -</b> 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	<b>Parental Guidance</b> - Programming intended for a general audience but which may not be suitable for younger children. Parents may consider some content inappropriate for unsupervised viewing by children ages 8-13. Violence Guidelines: Depictions of conflict and/or aggression will be limited and moderate; may include physical, fantasy, or supernatural violence. Other Content Guidelines: May contain infrequent mild profanity, or mildly suggestive language. Could also contain brief scenes of nudity.
14+	<b>Programming contains themes or content which may not be suitable for viewers under the age of 14</b> - Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Violence Guidelines: May contain intense scenes of violence. Could deal with mature themes and societal issues in a realistic fashion. Other Content Guidelines: May contain scenes of nudity and/or sexual activity. There could be frequent use of profanity.
18+	Adult - Violence Guidelines: May contain violence integral to the development of the plot, character or theme, intended for adult audiences. Other Content Guidelines: May contain graphic language and explicit portrayals of nudity and/or sex.

### Canadian Ratings (Frn)

Use CANADIAN RATINGS (FRN) to block Canadian French programs according to various program ratings that you feel might be inappropriate in its content.







Use the CURSOR PAD ▲ or ♥ to highlight the category that you want to block.

Press SELECT to set the CANADIAN RATINGS (FRN) that you have selected.

Once rating is selected, for example 8 ans+, all movies and television programs rated 8 ans+ and higher will be automatically blocked.

Press EXIT to quit menu or select the CURSOR PAD ◀ to return to the previous menu.

### Canadian Ratings French Chart

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

# TIMERS

Timers

Select Timers to set your Clock, Sleep Timer, Event Timer and Day/Night Timer Recordings.



Set The Clock T

The Clock must be adjusted before you can use the "Set Event Timer" or Day/Night Timer" feature.



Use the CURSOR PAD  $\blacktriangle$ ,  $\triangledown$ ,  $\triangleleft$ ,  $\blacktriangleright$  to highlight the chosen Time Zone settings. Press the SELECT button to select.

If you observe daylight savings, use CURSOR PAD to highlight "Daylight Saving Correction" and press the SELECT button to select.

Use the CURSOR PAD ▲, ♥, ◀, ▶ to highlight the current time (hour and minute), AM or PM, Month, Day, and Year. Use the CURSOR PAD ▲, ♥ to adjust settings. Press the SELECT button to set the Time and Date. Press EXIT to quit the menu.

**NOTES:** When "Daylight Saving Correction" is checked "\$\scrime", the TV will automatically calculate the clock adjustment for Daylight Saving.

Set Sleep Timer

Select this feature to set your Sleep Timer from 30 minutes to 3 hours (30 minute increments).



Press the CURSOR PAD ► repeatedly to set your Timer from 0:00, 0:30, 1:00, 1:30, 2:00, 2:30 and 3:00.

Set Day/Night Timer

Select this feature to activate and set your TV's Day/Night Picture Mode automatically.



Use the CURSOR PADS and the SELECT button to activate the Day/Night Timer. Use the CURSOR PADS to select Day Mode On and to set it's timer. Use the CURSOR PADS to select Day Mode Off and to set it's timer.

# TIMERS

### Set Event Timer

This function will automatically operate the Projection TV viewing reservation of a program. If the clock is not set, you can not use this function and the screen below will appear. The message on the screen will disappear after 3 seconds, then the screen automatically goes to the clock setup mode (see page 59).



made after this time. If you change the channel after the On Timer has been activated, the Off Timer will deactivate.If no remote control button is pressed after viewing reservation is activated, the TV will automatically turn off after three hours. Therefore, do not Set Event Timer for more than three hours if you do not plan to control your television with the remote control.

CAUTION:

DN: Do not use your TV as a deterrent when away from home by using the On and Off Timers. For safety, the TV should be turned off when you are away from home.

Set Auto Power Off

This function will turn off the TV automatically when a video signal is not detected for 15 minutes.



Use the CURSOR PAD to highlight the sub-menu of your choice. Press the SELECT button to select.

NOTE: 1. If "Yes" is selected and no signal is detected on Antenna Mode, "Weak signal or channel not available" will be displayed.
2. If "Yes" is selected and no signal is detected on Video Mode, "No Sync. Signal" will be displayed.
2. If "Yes" is selected and it is a relative before the TV target for the "OFF" of the selected and the selected and the selected on Video Mode.

3. If "Yes" is selected and it is 1 minute before the TV turns off automatically, the "OFF 0:01" icon will be displayed.

4. The Auto Power OFF feature will be cancelled when an input change or channel operation is performed.

# SETUP



Select SETUP when setting your TV up for the first time. Use the CURSOR PAD ▲ or ♥ on the remote to highlight the function desired.



Use the CURSOR PAD  $\blacktriangle$ ,  $\triangledown$ ,  $\triangleleft$ ,  $\blacktriangleright$  to highlight the sub-menu of your choice. Press the SELECT button to select.

### Menu Preference

This feature will allow you to select any one of three different languages for all on-screen displays.



Use the CURSOR PAD ◀, ▶ to highlight the language of your choice. Press SELECT to select the highlighted language. Press EXIT to quit menu or select MENU PREFERENCE to return to previous menu.



This function allows you to choose from two menu backgrounds.



Use CURSOR PAD < , <p>to highlight Set The Menu Background (shaded or solid), and press the SELECT button to select setting.

Press EXIT to quit menu or CURSOR PAD < to return to previous menu. Select Solid for a black background (no picture can be seen behind menu screen), or select Shaded for a light background.

Screen	
Saver	

Continuous on-screen displays such as video games, stock market quotations, computer generated graphics, and other fixed (non-moving) patterns can cause "temporary image retention" to the LCD Rear PTV. Use the SCREEN SAVER feature to avoid any temporary image retention. Moving picture will clear up any temporary image retention.



Use CURSOR PAD ▲, ▼ to highlight Screen Saver's Main Picture Moving options. Press the SELECT button to select and EXIT to quit.

### **Option 1**

MENU

The whole picture will shift every 20 minutes by two pixels.

### **Option 2**

N

**ON-SCREEN DISPL** 

The whole picture will shift every 40 minutes by two pixels.

### Option 3

The whole picture will shift every 60 minutes by two pixels.

### Screen Wipe

If temporary image retention occurs, use Screen Wipe (White Field Signal) for at least 10 minutes to refresh any temporary image retention that may have occurred.

### Screen Saver Picture's Movement



# SETUP

Set The Inputs Use this feature to give a name to any of the five video inputs.



Use the CURSOR PAD to highlight the name of the video inputs. Press the SELECT button to select desired input name.

Select Reset to set video names to original factory preset condition.

Video 2 Auto Link Use this function to automatically turn the TV on and tune to Video2 when it detects a video signal to input 2.



Use the CURSOR PAD, then press the SELECT button to change Auto Link setting.

When Auto is selected, the TV will turn on and tune to Video2 automatically, when the Video2 input device is turned on. This is convenient when you want to watch a movie with your VCR, laserdisc player, or DVD player.

When Remote is selected, the TV will turn on and switch to Video2 automatically when the Video2 input device is turned on and the VCR, laserdisc, or DVD play button on your remote control is pressed.

This is convenient when you want to record a movie with your VCR and watch it later.

Select Off to disable this function. Press EXIT to quit menu.

- **NOTES:** 1. Once the TV has been turned on using the Auto Link feature, it must be reset before Auto Link is used again. To do this, turn your VCR, laserdisc, or DVD player OFF. This feature is now reset and will turn on your TV as described above.
  - 2. When using Remote mode, any remote control button will substitute for your video input device play button. However, intended operation is for use with your VCR, laserdisc, or DVD play button.
  - 3. If no remote control button is pressed after the TV is turned on by Auto Link, the TV will automatically turn off after three hours.

Set Black Side Panel The Black Side Panel function turns the gray side bars on/off when watching 4:3 signals in Standard mode. The top/bottom gray bar will appear in SPLIT MODE PIP and SPLIT FREEZE.



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 or or



Caption Display: On/Off will turn the CC display on or off.

Auto will turn the CC display on when Mute/Soft Mute is on.

Caption Mode: Captions is for the program you are viewing.

**Text** is 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.

CHANNEL: 1 is used for the primary language (usually English).

2 is sometimes used for a second language (may vary by region).

3 is sometimes used for a third language (may vary by region).

4 is sometimes used for a fourth language (may vary by region).

Use the CURSOR PAD ▲, ♥, ◀, ► to highlight the function to change then press the SELECT button to select the function. Press EXIT to quit menu or the CURSOR PAD ◀ to return to previous menu.

Digital Captions: Set captions for digital programs. This function will help choose and set available language, font, size and style of digital captions.



Use the CURSOR PAD  $\blacktriangle$ ,  $\triangledown$ ,  $\triangleleft$ ,  $\blacktriangleright$  to highlight desired Digital Captions feature.

Press the SELECT button to select desired feature.

Press EXIT to quit menu or the CURSOR PAD ◀ to return to previous menu.

ON-SCREEN DISPLAY Use the C Press the Press EXI NOTES:

- 1. Some types of digital closed captions may not work with this TV.
- 2. CAPTION DISPLAY will not work when viewing a 480p, 720p, or 1080i input via the COMPONENT: Y-P\_BP\_R inputs.
- 3. When PIP Surf is on, Closed Caption will not work.
- 4. Digital Captions Font Style are sometimes different from the Font Style of Analog Captions.
- 5. Closed Caption and Digital Captions availability and content depends on the broadcaster. Closed Caption is available when Closed Caption icon is displayed on screen.
- 6. Digital Captions will not be available (grayed out) when using analog channels.

# SETUP

Set Monitor Out This feature will select the source of the Monitor Output.



Monitor- Select Monitor to output the audio and video signals of the chosen input source (ANT A, ANT B, VID3-VID5) to a VCR or other A/V device.

TV Tuner Out- Select TV Tuner Out to output the audio and video signals of the last watched Antenna Source (ANT A, ANT B). Fixed- Select Audio Out Fixed to have the Audio at fixed volume.

Variable- Select Audio Out Variable to have Audio settings that can be controlled.

Use CURSOR PAD ▲, ▼ to highlight the function to change then press the SELECT button to select the function. Press EXIT to quit menu or CURSOR PAD ◀ to return to previous menu.

NOTE: When TV Tuner Out is selected, Variable Audio Out will not be available (grayed out).



### Set AV Control

This feature will select the AV Control feature. Set this feature if you want to control some of the TV functions from an external home control system.

Move (SEL) Select



Use the CURSOR PADS and the SELECT button to check the Connected RS232C box.

**NOTE:** For use with third party home Audio/Video control systems which are commercially available. Please see your dealer regarding these "non Hitachi" home control systems.

### Upgrades

It shows software information and easy upgrade procedure. This function allows the TV software to be upgraded by using a flash card (MMC Card). If a future software upgrade is required for your TV, Hitachi will notify and provide you with a flash card. In order to receive written notification and the flash card, please complete and return the warranty card.



Insert MMC card, then press the CURSOR PAD ▲, ▼ to highlight "Upgrade Now". Press the SELECT button to select and start upgrading.

**NOTE:** Any power interruption during the upgrade process will cancel the upgrade. When this happens, repeat the upgrade procedure.

### Quick Start Up

This feature will select Quick Start Up options. Set this feature to ON to have the TV tune channels (both Analog and Digital) quickly when first turning the TV on. Set this feature to OFF to save electricity. Selecting ON for the Quick Start Up feature will activate the TV tuners circuits when the TV is in "standby mode" which is commonly referred to as "off". This will allow you to quickly tune to channels when first turning the TV on. Digital signals often change and this feature will monitor any changes and prepare the television to quickly present a picture. A small amount of electricity is used to continually monitor signals when this feature is selected.



# LAMP REPLACEMENT



### Lamp Life

The lamp life may vary based on usage of the LCD Rear PTV. Turning on and off frequently may shorten the life of the lamp.

### Lamp Replacement

After extended use, if the TV picture turns dark, the color looks unusual or LAMP INDICATOR light turns on, then it is time to replace the lamp with a new lamp.

### WARNING:

The lamp gets very hot! The lamp may explode if improperly handled. To avoid injury, please observe the following precautions.

- Do not open lamp compartment or attempt to remove lamp assembly unless the lamp assembly is being replaced.
- Unplug the product's power cord from the AC outlet before attempting to replace the lamp assembly.
- If the lamp is in use when failure occurs or if the lamp has exploded, wait at least 30-45 minutes for the lamp to cool before opening the lamp compartment or touching the lamp assembly or any broken pieces.
- Broken lamp pieces can cause injury. Handle with gloves to avoid cuts.
- Do not place any foreign objects inside the lamp compartment.
- When installing a new lamp, follow handling instruction included with the new lamp. Do not touch glass surface of new lamp.
- This product contains lead and a lamp that contains mercury. Dispose of this product and its lamp in accordance with applicable environmental laws. For lamp recycling and disposal information, go to www.lamprecycle.org. For product recycling and disposal information, contact your local government agency or the Electronic Industries Alliance at www.eiae.org (in the US) or the Electronic Product Stewardship Canada at www.epsc.ca (in Canada). For more information, call "1-800-HITACHI."

### CAUTION!

A "LAMP" indicator will light when lamp becomes hot. Unplug product's power cord from the AC outlet and allow lamp to cool for at least 30-45 minutes. If "LAMP" indicator is still lit, please contact your authorized service center (see page 77-78).

### NOTES:

 Contact your Hitachi dealer for a new lamp unit. Using other lamps may cause damage to the TV Set.

LAMP TYPE: LM500

- When replacing the lamp, let it cool down completely, for approximately 30 to 45 minutes after the power has been switched off and A.C. cord has been unplugged.
- Do not touch the glass of the new lamp or make it dirty which can shorten the life of the lamp and reduce the picture quality.
- Keep the lamp out of the reach of children and away from flammable materials.
- Do not pour water onto the removed lamp or put any object inside the lamp.
- Once the lamp is removed, do not put flammable materials and metal objects inside the lamp receptacle on the TV set. Do not touch the receptacle.
- Install the new lamp securely, otherwise the picture may become dark or it may cause severe overheating.
- Install the lamp cover correctly, otherwise power will not come on.



1. Turn off the main power switch and unplug the power cord.



# CAUTION: THE LAMP IS VERY HOT AND MAY CAUSE FIRE OR SEVERE BURNS. WAIT AT LEAST 30~45 MINUTES TO ALLOW THE LAMP TO COOL BEFORE PROCEEDING WITH LAMP REMOVAL.

2. Remove the front cover from the TV set. This is held by a snap on. Pull the front cover outwards until the quick snap on disengages.



**NOTE:** This product contains lead and a lamp that contains mercury. Dispose of this product and its lamp in accordance with applicable environmental laws. For lamp recycling and disposal information, go to www.lamprecycle.org. For product recycling and disposal information, contact your local government agency or the Electronic Industries Alliance at www.eiae.org (in the US) or the Electronic Product Stewardship Canada at www.epsc.ca (in Canada). For more information, call "1-800-HITACHI."

# LAMP REPLACEMENT

- 3. Remove the screw securing the lamp cover with a Phillips head screw driver as shown. Remove the lamp cover.



# CAUTION: THE LAMP IS VERY HOT AND MAY CAUSE FIRE OR SEVERE BURNS. WAIT AT LEAST 30~45 MINUTES TO ALLOW THE LAMP TO COOL BEFORE PROCEEDING WITH LAMP REMOVAL.

4. Remove the two screws that hold the lamp in place. Remove the lamp unit by holding the lamp handle, then pulling outwards. Exercise caution when removing the lamp unit to avoid injury to your fingers.

NOTE: DO NOT PUT YOUR HAND IN THE LAMP STORAGE AREA AFTER THE LAMP UNIT IS REMOVED, YOU MAY GET BURNED.





5. Replace with the new lamp.

Place the removed lamp into the empty box of the replacement lamp. Do not touch the front glass of the new lamp or its receptacle. This may shorten the life of the lamp and reduce the picture quality.

- Push the lamp unit back to its original position.
- Tighten the screws firmly on the lamp unit. If they are loose, the TV may not operate correctly.







LAMP REPLACEMENT

6. Without installing the lamp cover, the power will be off and the Lamp Indicator will flash (see page 8). Be sure to install the lamp cover by re-engaging the two clips and tighten the screws before turning the power on, otherwise it may cause unusual colors.



# **NOTE:** IF POWER IS CONNECTED BEFORE THE LAMP COVER IS INSTALLED, THE POWER WILL BE OFF AND THE LAMP INDICATOR WILL FLASH (SEE PAGE 8 ).

7. Install the front cover as shown below. Put the front cover back in and align the snap on quick connect then push inwards holding the left and right side of the front cover until you hear a snap. Push the other snap on gently to make a good fit.



8. Plug power cord into AC outlet and turn on the main power switch.



**NOTE:** This product contains lead and a lamp that contains mercury. Dispose of this product and its lamp in accordance with applicable environmental laws. For lamp recycling and disposal information, go to www.lamprecycle.org. For product recycling and disposal information, contact your local government agency or the Electronic Industries Alliance at www.eiae.org (in the US) or the Electronic Product Stewardship Canada at www.epsc.ca (in Canada). For more information, call "1-800-HITACHI."


#### 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 Television away from extreme heat, humidity, and extremely dusty places.

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

#### DO NOT

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

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

Do not touch the screen too often.

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

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 cease operation.

When the batteries run down, remote control operation will become erratic or possibly stop altogether. Replace the old batteries with two new "AA" size batteries as soon as possible to preserve the remote control precodes that were set for the devices. Pressing a remote control button with a "DEAD" battery might erase all precodes in memory. Do not use an old battery with a new battery.

Exposure of the viewing screen to prolonged direct sunlight or heat may cause the screen to permanently warp, resulting in a distorted picture.



• 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.

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

ASK ASK ASK
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No Picture, no sound		۲	۲	۲	۲		•								
Sound OK, picture poor				۲	۲	۲		•	۲	۲					
Picture OK, sound poor	۲			۲	۲	۲	•	۲					۲		
Picture blurred	۲			۲	۲	۲	۲	۲							
Lines or streaks in picture				۲	۲	۲	۲	۲							
Poor reception on some channels				۲	۲	•	•	•						1	
Picture rolls vertically				۲				•							
No color				۲	۲	۲	•				•				
Poor color	•			۲	۲	•	•				•	•		1	
Dark Picture									۲	•					

HITACHI Liquid Crystal Display incorporates advanced power surge protection technology designed to protect against component or circuit damage due to external or internal voltage power surges.

IF YOUR TELEVISION SHOULD APPEAR TO HAVE A LOSS OF POWER, PLEASE FOLLOW THIS PROCEDURE:

- 1. Press the power switch (ON/OFF switch) once.
- 2. If there is still no power, wait 30 seconds and press the power switch 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 switch again.

This protective technology should provide for years of lasting entertainment from your HITACHI Liquid Crystal Display.

**USEFUL INFO** 



#### Features:

- Superfine Picture Quality
- 1280 Line Horizontal Resolution
- · Remote (Controls many PVR/VCR brands, cable boxes, satellite boxes, and other audio equipment).
- New Easy-to-Use (3-Language) On-Screen Menu
- Full Set of Input Jacks, including S-VIDEO
- COMPONENT VIDEO: Y-PB/PR
- Six Aspect Modes
- Closed Caption Decoder
- 2-Tuner Picture in Picture
- 2 Antenna Inputs (Either for Analog/Digital)
- Video Input Sensor
- 3 Dimensional Y/C Comb Filter
- Compatible with 1080i, 720p, 480p and 480i input signals.
- HDMI (High Definition Multimedia Interface) (High Bandwidth Digital Content Protection V1.1 compatible).
- Digital Audio Output (Dolby® Digital and PCM)
- · Photo Input (for your digital camera).
- CableCARD<sup>™</sup> compatible Contact your local cable operator for more information.
- IDEE Technology.
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Technology

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#### Inputs:

- Power Input .....AC 120V, 60Hz
- Stand-by Power .....0.6W
- Power Consumption

CATV Mid Band
A-I
Super BandJ-W
Hyper BandW+1 - W+28
Ultra Band

-	0-1000		
	Luminance (Y)1.0Vp-p,	75	Ohm
	Chrominance (C)0.286Vp-p,	75	Ohm

- Component Video Luminance (Y) .....1.0Vp-p, 75 Ohm Chrominance (P<sub>B</sub>/P<sub>R</sub>) .....0.7Vp-p, 75 Ohm
   Audio input Impedance .....47k Ohm
- HDMI ......HDMI 19pin

#### Outputs:

- - Optical Out (Digital Audio) .....1 optical connector

#### Dimensions:

		42V710 42V715	50V710 50V715	60V710 60V715
6	Height (in.)	30 7/16	35 1/2	40 1/4
	(mm)	772.5	901.0	1,023.0
6	Width (in.)	47 6/8	54 5/8	63 3/8
	(mm)	1214.0	1,387.0	1,609.0
8	Depth (in.)	15 1/16	16 3/8	20 1/2
	(mm)	382.0	415	520
8	Weight (lbs.)	79.4	114.0	139.0
	(kg)	36.0	51.7	63

**NOTE:** Due to improvements, specifications in this operating guide are subject to change without notice.



# HITACHI



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#### Hitachi Canada, LTD. Digital Media Division

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