

PROJECTION COLOR TV

65SWX20B 57SWX20B 51SWX20B

65TWX20B 57TWX20B

OPERATING GUIDE



IMPORTANT SAFETY INSTRUCTIONS

2-3



FIRST TIME USE

4-20



THE REMOTE CONTROL

21-37



ON-SCREEN DISPLAY

38-62



USEFUL INFORMATION INDEX

63-68

As an Energy Star® Partner, Hitachi, Ltd. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.





SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR HITACHI 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 color television.

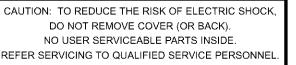


CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



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.





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

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD. DO NOT EXPOSE THIS TELEVISION TO RAIN OR MOISTURE.

NOTE:

- There are no user serviceable parts inside the color television.
- Model and serial numbers are indicated on back side of the television.
- This television is not intended for use in a computer room.

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 COLOR TELEVISION'S (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER OUTLET UNLESS THE BLADES AND GROUND TER-MINAL CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

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

NOTE:

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



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.



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.

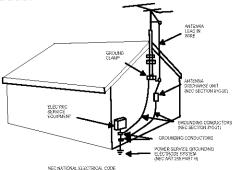
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects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

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

- 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
- 16. Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.

injury.

- 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.

Disposal of this product may require specific instructions pertaining to your resident state. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org.

Projection TV's are heavy and can mark or damage floor surfaces (especially wood flooring) if moved improperly. Do not slide or force TV into position. Always roll TV allowing casters at bottom of unit to help steer and position the TV.

PREVENTION OF SCREEN BURN

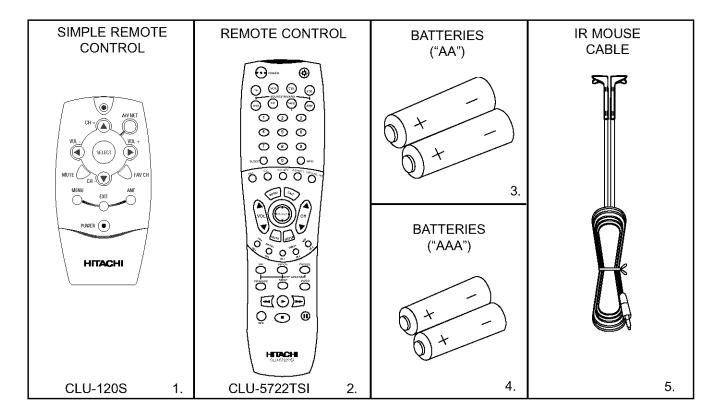
Continuous on-screen displays such as video games, stock market quotations, computer generated graphics, and other fixed (non-moving) patterns can cause permanent damage to television receivers. Such "SCREEN BURNS" constitute misuse and are **NOT COVERED** by your HITACHI Factory Warranty.

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.



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

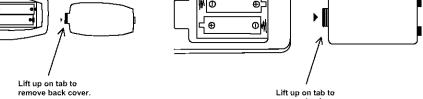


- 1. Simple Remote Control Unit CLU-120S (Part No. HL01861).
- 2. Remote Control Unit CLU-5722TSI (Part No. HL01822).
- 3. Two "AA" size, 1.5V batteries (For Remote Control Unit).
- 4. Two "AAA" size, 1.5V batteries (for Simple Remote Control Unit).
- 5. Two IR Mouse Cables (Part No. EY01641).

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.







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

HOW TO SET UP YOUR NEW HITACHI PROJECTION TV



ANTENNA

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

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.

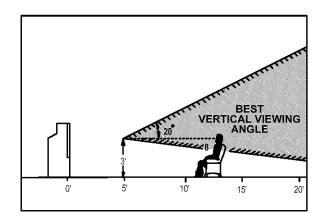
VIEWING

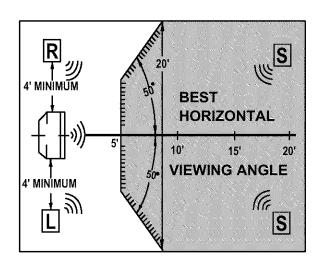
The major benefit of the HITACHI Projection Television is its large viewing screen. To see this large screen at its best, test various locations in the room to find the optimum spot for viewing.

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.





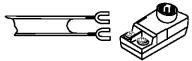
↑ CA

CAUTION: Magnetic fields, such as those of external speakers, may cause the picture to distort if they are placed too close to the television. Move the magnetic field source away from the television until there is no picture distortion.



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 PC ready color television's rear jack panel and front control panel.



IR Mouse Cable (Provided)

Connect the IR Mouse Cable to the IR BLASTER ouput on your TV when AV Network is used. You must place the IR mouse transmitter in front of the IR sensor of your external components. This connection allows your TV to control your external components without using your external component's remote control.



"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

HDTV output capability.

To outdoor antenna

or CATV cable

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



Digital Visual Interface (DVI) Connection CableThis cable is used to connect external devices with DVI-

ANTENNA CONNECTIONS TO REAR JACK PANEL

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

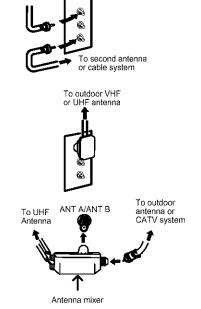
When using a 75-Ohm coaxial cable system, connect the outdoor antenna or CATV coaxial cable to the ANT A (75-Ohm) terminal. If you have a second antenna or cable TV system, connect the coaxial cable to the ANT B terminal.

VHF (300-Ohm) antenna/UHF antenna

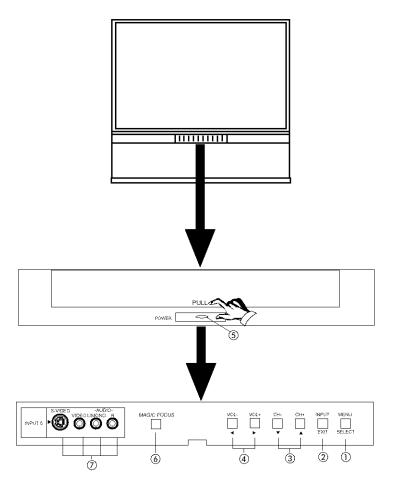
When using a 300-Ohm twin lead from an outdoor antenna, connect the VHF or UHF antenna leads to screws of the VHF or UHF adapter. Plug the adapter into the antenna terminal on the TV.

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.







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 select the current antenna source, VIDEO: 1, 2, 3, 4, 5 or alternate antenna source. Your selection is shown in the top right corner of the screen. This button also serves as the EXIT button when in MENU mode.

NOTES: Your remote control does not have an INPUT button. To change to video inputs, press VID1~VID5 buttons depending on your choice (see page 27).

(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 (∇) and up (\triangle) 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 (◀) and right (▶) buttons when in MENU mode.

(5) POWER button

Press this button to turn the TV on or off.

(6) MAGIC FOCUS

Use this button to automatically adjust your picture quality to optimum performance (see page 42).

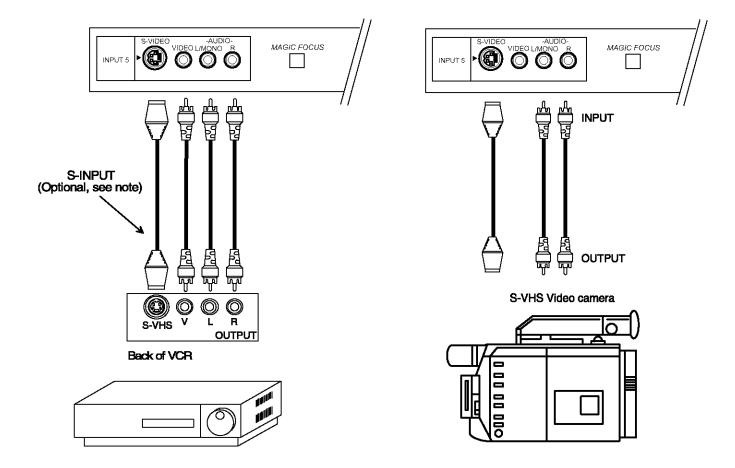
(7) FRONT INPUT JACKS (INPUT 5)

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 button 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.



FRONT PANEL JACKS AND CONNECTORS

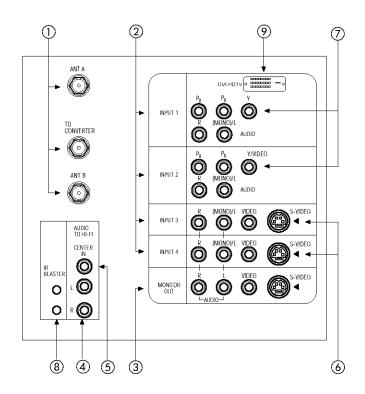
The front panel jacks are provided as a convenience to allow you to easily connect a camcorder or VCR as shown in the following examples:



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.





1 Antenna Input/Output

The remote control allows you to switch between two separate 75-Ohm RF antenna inputs, ANT A and ANT B. ANT A input can be displayed as a main picture or sub-picture. ANT B can only be displayed as a main picture. (ANT B cannot be displayed as a sub-picture.) The antenna output labeled "TO CONVERTER" allows the ANT A connection to pass directly to a different source such as a cable box, only when ANT B is displayed as a main picture.

2 Audio/Video Inputs 1, 2, 3 and 4

The VID1~VID4 buttons will select each video source each time they are pressed. 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 audio and video signals which are used for recording. Use the S-VIDEO Output for high quality video output.

NOTE: S-VIDEO Output may be used for recording, only when the input is of S-VIDEO type.

(4) AUDIO TO HI-FI Output

These jacks provide variable audio output to a separate stereo amplifier. With this connection, the audio to the stereo can be controlled by the television's main volume.

(5) Center Input

These jacks are for center signals such as Dolby and the TV must be set as a center channel by selecting "TV as Center" on the Audio Advanced Settings Menu (see page 47).

(6) S-VIDEO inputs 3 and 4

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



Omponent: Y-P_BP_R Inputs

Inputs 1 and 2 provide Y-P_BP_R jacks for connecting equipment with this capability, such as a DVD player or Set Top Box. You may use standard video signal for INPUT:2.

NOTES:

- 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_B input and the components R-Y output to the TV's P_B input.
- 3. Your component outputs may be labeled Y-C_BC_R. In this case, connect the component C_B output to the TV's P_B input and the component C_B output to the TV's P_B input.
- 4. It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-P_BP_R inputs. (See page 41)
- 5. To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-P_RP_R jacks.
- 6. Input 2 (Y/VIDEO) can be used for composite video and component video input.

(8) IR Blaster

This jack provied IR output to your external components (VCR, Cable box, DVD player, etc.). With this connection, your external components can automatically be controlled by the A/V net feature. This connection will allow you to control the external components with your television's remote control (see page 18).

(9) DVI-HDTV Input

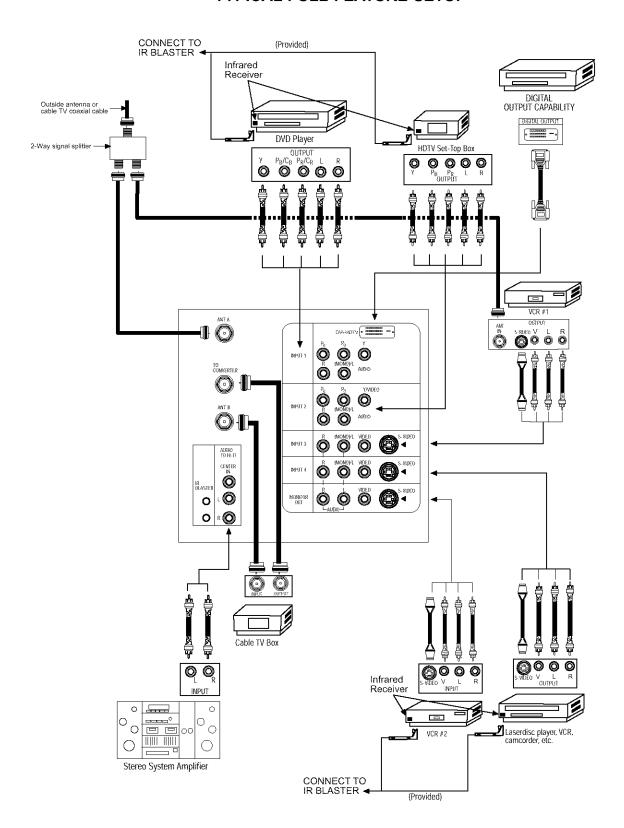
Use this DVI-HDTV Input for your external devices with DVI-HDTV output such as a Set-Top-Box.

NOTES:

- 1. Only DTV format such as 1080i, 720p, 480i and 480p are available for DVI-HDTV input.
- 2. The DVI-HDTV input is NOT compatible as a computer monitor.
- When connecting a Set-Top-Box with a copy-protect digital out terminal, a high definition picture can be displayed on the screen in its digital form.
- 4. The digital input terminal is also for future use with high-band DTV decoders, DVD players and D-VHS with Digital Content Protection.



TYPICAL FULL-FEATURE SETUP



NOTE:

- 1. Connect only 1 component to each input jack.
- 2. Follow connections that pertain to your personal entertainment system.
- 3. Composite video signal can be input to Input2~Input5.
- 4. Cables are optional except when noted as provided.



TIPS ON REAR PANEL CONNECTIONS

S-VIDEO 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.

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 11). 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_BP_R (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 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 P_B input and the components R-Y output to the TV's P_B input.

Your component outputs may be labeled Y- C_BC_R . In this case, connect the components C_B output to the TV's P_B input and the components C_R output to the TV's P_R input.

You may use composite video signal for Input 2~Input 5.

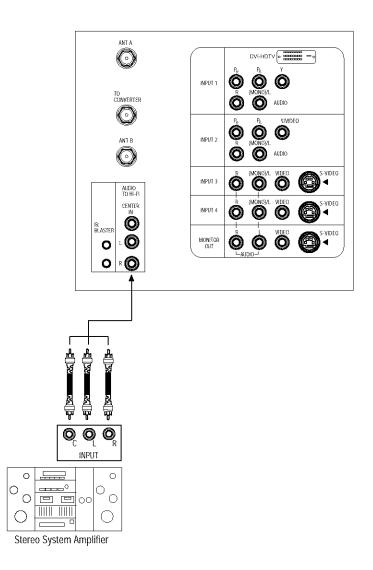
It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PBPR inputs. (See page 41)

To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR jacks.



To control the audio level of an external audio amplifier with the remote control, connect the system as shown below.

REAR PANEL OF TELEVISION



NOTE: To prevent damage to the speaker and distorted sound, set the volume control of the audio amplifier lower and adjust the sound using the remote control of the TV set.

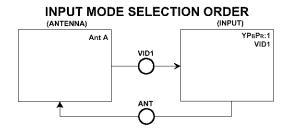
CONNECTING EXTERNAL VIDEO SOURCES

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

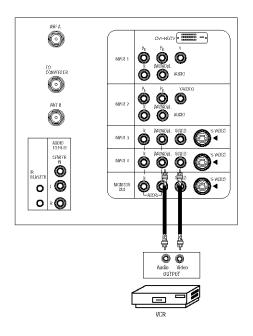
The input mode is changed every time the VID1~VID5 button is pressed as shown below. Connect an external source to the INPUT terminal, then press the VID1~VID5 button as necessary to view the input source. (See page 27)



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 INPUT2~INPUT5

- 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 VID2~VID5 button to view the program from the VCR or the laserdisc player. The VIDEO label disappears automatically after approximately four seconds.
- 4. Press the ANT button to return to the previous channel.

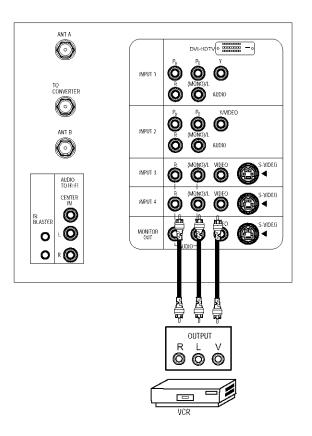






CONNECTING A STEREO SOURCE TO INPUT2~INPUT5

- 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 VID2~VID5 button to view the program from the VCR or laserdisc player. The VIDEO label disappears automatically after approximately four seconds.
- 5. Press the ANT button to return to the previous channel.



NOTES:

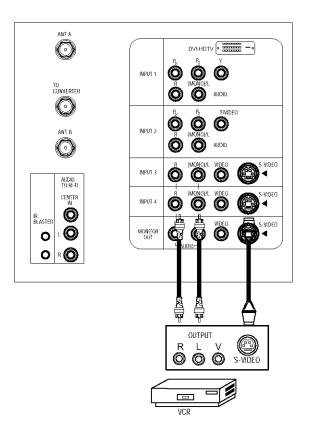
- 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output. (INPUT: 1 in example on page 11) Refer to your VCR operating guide for more information on line input-output connections.



CONNECTING EXTERNAL VIDEO SOURCES

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

- 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 VID3~VID5 button to view the program from the VCR or laserdisc player. The VIDEO label disappears automatically after approximately four seconds.
- 5. Press the ANT button to return to the previous channel.



NOTES:

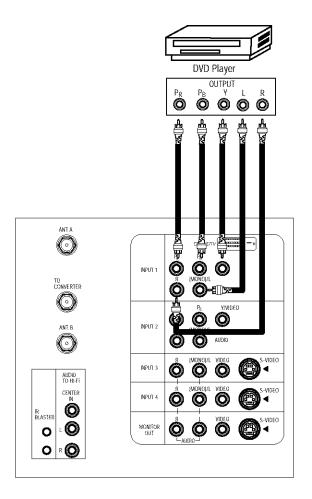
- 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output. (INPUT: 1 in example on page 11) Refer to your VCR operating guide for more information on line input-output connections.





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

- 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 CB/PB OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (PB) jack.
- Connect the cable from the C_R/P_R OUT or R-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_R) 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 VID1~VID2 button, to view the program from the Laserdisc/DVD player or HDTV set top box. The VIDEO label disappears automatically after approximately four seconds.
- 7. Press the ANT button to return to the previous channel.



NOTE:

- 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 12 for tips on REAR PANEL CONNECTIONS.

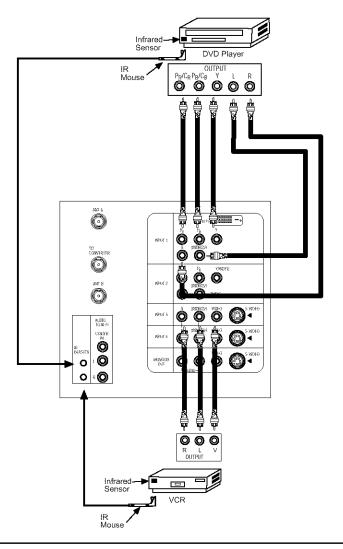


Your Hitachi Television is equiped with an A/V Network feature. This feature helps to control your external Audio/Video equipment (VCR, Set Top Box, DVD, etc.). Once this is setup, it allows your IR Mouse connector to control your equipment using your Hitachi TV Remote Control. You can use your Hitachi remote control to control the Audio/Video equipment command without the equipment's remote control.

The Television rear panel has 2 IR BLASTER jacks. Each IR Mouse cable can connect up to 2 external Audio/Video components. Therefore, you can connect the Television with up to four components. Please see the following example of an A/V Network setup between your Hitachi Television and external Audio/Video equipment (VCR and DVD Player).

CONNECTING EXTERNAL AUDIO/VIDEO COMPONENTS TO IR BLASTER FOR A/V NETWORK

- 1. Connect your external Audio/Video components to the Rear Panel jacks as shown on pages 13~17.
- 2. Connect the IR Mouse cable to the IR BLASTER input of the Television's rear panel.
- 3. Place the IR mouse in front of the infrared sensor of the external components you wish to control.



NOTES:

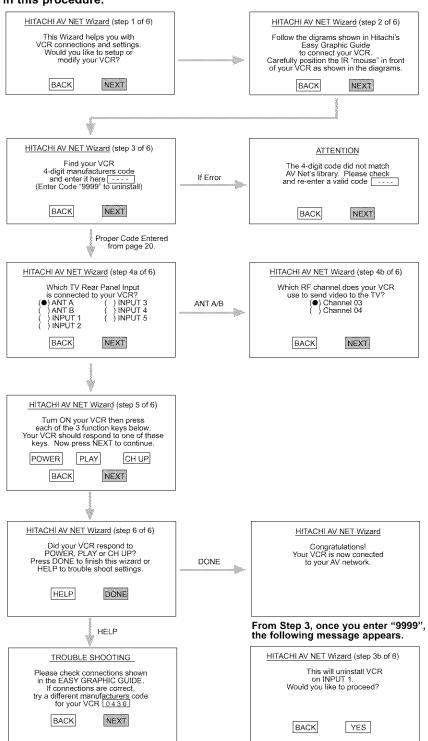
- 1. The Rear Panel has two IR BLASTER inputs which can control up to a total of four external components.
- 2. The IR Mouse must be placed in front of the external components infrared sensor for the A/V Network to work.
- 3. The correct codes must be entered for each of the Audio/Video components for the A/V Network to function properly (see page 20).

A/V NETWORK SETUP WIZARD



- 4. Press the A/V NET button on the remote control. The A/V Network Setup Wizard will automatically start upon the very first use. You can access the Setup Menu Wizard again in the future by pressing the A/V net button and selecting SETUP.
- 5. Follow the steps below to setup your A/V network (See page 20 for A/V Network Codes).

There are six steps in this procedure.



- 6. Enter "9999" to uninstall the equipment from your A/V Network.
- 7. See Remote Control A/V NET button usage on page 24.

NOTES:

- If your equipment cannot be operated after performing the above procedures, your equipment code has not been precoded into the A/V Net.
- 2. In the unlikely event that your equipment receiver cannot be operated after performing the above procedures, please consult your equipment receiver operating guide.



AUDIO/VIDEO NETWORK (A/V NET) CODES

VCR BRAND Admiral					
Adventura					
Aiko					0278
Aiwa			0307,	0000,	0037
Akai		. 0106,	, 0053,	.0041,	0061
America Action					0278
American High					
Asha					
Beaumark					
Bell & Howell					
Broksonic		0121,	0184,	0002,	0209,
		. 0211	, 0295,	0361,	0479
CCE					
Canon					
Capehart					
Carver					
Cineral					
Citizen				0278,	0037
Coft	0027	0072	0047	0240	0072
Curtis Mathes	0037	0072	, 1 2 00,	0290,	0760
Cybernex		, 00-71		0051.	0240
Daewoo		0278	0561	0020,	0045
Daytron					0020
Denon					
Dynatech					0000
Electrohome					
Emerex					
Emereco	0184	กกกว	0200	0278	กกรด
	. 0121,	0211,	0561,	0208,	0294,
	. 0479,	0061,	0088,	0212, 1	0000,
Fisher					
Fisi		. 0047	U 1U4,	0004,	0000
Fuji					0000
GE 0035, 0060	0,0048	0202	0240,	0760,	0761
Garrard					0000
Go Video		. 0432,	, 0526,	. 0232,	0643
GoldStar					
Gradiente				0008,	0100
HI-Q					
Harley Davidson					0000
Harman/Kardon Harwood				0038,	0081
Harwood				0068,	0072
Headquarter					0046
Hitachi	vetome	. 0042	. 0105,	. 0000,	0047
I rugiles Network 6					
JIVĆ	yacania		0067	0008	0042
JVC			0067,	.0008,	0041
JVC Jensen KEC			0067	0008,	0041 0041 0278
JVCJensenKECKLH			0067,	0008,	0041 0041 0278 0072
JVCJensenKECKLH			0067,	0008,	0041 0041 0278 0072
JVC. Jensen KEC KLH Keen Kenwood			0067,	0008,	0041 0041 0278 0072 0693 0038
JVC. Jensen KEC KLH Keen Kenwood Kodak			0067,	0008, 0037, 0067, 0035,	0041 0041 0278 0072 0693 0038 0037
JVC. Jensen KEC KLH Keen Kenwood			0067,	0008, 0037, 0067, 0035,	0041 0041 0278 0072 0693 0038 0037 0037
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik			. 0067,	0008, 0037, 0067, 0035, 0000,	0041 0041 0278 0072 0693 0038 0037 0037 0208 0072
JVC. Jensen KEC KLH Keen Kenwood. Kodak LXI Lioyd's Logik MFI			. 0067,	0008, 0037, 0067, 0035,	0041 0041 0278 0072 0693 0038 0037 0037 0208 0072 0035
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lloyd's Logik MEI MGA			0067,	0008, 0037, 0067, 0035, 0000,	0041 0041 0278 0072 0693 0038 0037 0037 0208 0072 0035 0240
JVC. Jensen. KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik MEI MGA MGN Technology			0041,	0008, 0037, 0067, 0035, 0000,	0041 0041 0278 0072 0693 0038 0037 0037 0208 0072 0035 0240 0240
JVC. Jensen KEC KLH Keen Kenwood. Kodak LXI Lioyd's Logik MEI MGA. MGN Technology			0067,	0008, 0037, 0067, 0035, 0000,	0041 0041 0278 0072 0693 0038 0037 0037 0208 0072 0035 0240 0240 0240
JVC. Jensen. KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox		0035,	. 0041,	0008, 0037, 0067, 0035, 0000, 0061,	0041 0041 0278 0072 0693 0038 0037 0037 0203 0072 0035 0240 0240 0240 0278 0563,
JVC. Jensen KEC KLH Keen Kenwood. Kodak LXI Lloyd's Logik MEI MGA. MGN Technology MTC Magnasonic Magnavox		0035,	. 0041, . 0043, . 0081, . 0000,	0008, 0037, 0067, 0035, 0000, 0061, 0000,	0041 0041 0278 0072 0693 0038 0037 0037 0020 0035 00240 0240 0240 0278 0563, 0149
JVC. Jensen KEC KLH Keen Kenwood. Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox		0035,	. 0041, . 0043, . 0081, . 0000,	0008, 0037, 0067, 0035, 0000, 0061, 0000,	0041 0041 0278 0072 0693 0038 0037 0208 0072 0035 0240 0240 0240 0240 0240 040
JVC. Jensen KEC KLH Keen Kenwood. Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta		0035,	. 0041, . 0043, . 0081, . 0000,	0008, 0037, 0067, 0035, 0000, 0061, 0000, 0110, 0039,	0041 0041 0278 0072 0693 0038 0037 0208 0072 0035 0240 0240 0240 0240 0240 0037
JVC. Jensen KEC KLH Keen Kenwood. Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta		0035,	. 0041, . 0043, . 0081, . 0000,	0008, 0037, 0067, 0035, 0000, 0061, 0000, 0110, 0039,	0041 0041 0278 0072 0693 0038 0037 0208 0072 0035 0240 0240 0240 0240 0240 0037
JVC. Jensen KEC KLH Keen Kenwood. Kodak LXI Lioyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnin Marantz Marta Matsushita Metsushita Memorex	. 0104,	0035,	0041, 0043, 0081, 0000, 0035, 0479,	0008, 0037, 0067, 0035, 0000, 0061, 0000, 0110, 0039, 0081, 0162, 0000,	0041 0041 0072 0693 0038 0037 0037 0037 00240 0240 0240 0240 0240 0240 040 040
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox Magnin Marantz Matsushitta Memorex 0048	0104,	0035, 0047, 0046,	0041, 0043, 0000, 0035, 0479, 0240,	0008, 0037, 0067, 0035, 0000, 0061, 0000, 0110, 0039, 0162, 0000,	0041 0041 0278 0072 0693 0038 0037 0208 0037 0208 0072 0035 0240 0240 0240 0240 0240 0035 0037 0035
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnarox Magnarox Magnarox Magnarox Magnarox Marantz Marta Matsushita Memorex 0048 0038	0104, , 0035, 3, 0162	0035, 0047, 0046,	0041, 0043, 0035, 0047, 0040, 0040, 0040,	0008, 0037, 0067, 0035, 0000, 0061, 0000, 0110, 0039, 0162, 0000, 11037, 11162,	0041 0041 0278 0072 0693 0038 0037 0208 0072 0035 0240 0240 0240 0240 0240 0240 0240 024
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnarox Magnarox Magnarox Magnarox Magnarox Marantz Marta Matsushita Memorex 0048 0038	0104, , 0035, 3, 0162	0035, 0047, 0046,	0041, 0043, 0035, 0047, 0040, 0040, 0040,	0008, 0037, 0067, 0035, 0000, 0061, 0000, 0110, 0039, 0162, 0000, 11037, 11162,	0041 0041 0278 0072 0693 0038 0037 0208 0072 0035 0240 0240 0240 0240 0240 0240 0240 024
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox Magnin Marantz Matsushita Memorex 0048 Minolta Mitsubishi.	. 0104, , 0035, , 0162	0035, 0047, 0046, 0209	0041, 0043, 0081, 0000, 0035, 0479, 0240, 0454	0008, 0037, 0067, 0067, 0000, 0061, 0000, 0110, 0039, 0162, 0000, 11037, 1162, 0105, 0048,	0041 0041 00278 0072 0693 0038 0037 0037 0208 0072 0035 0240 0240 0240 0240 0278 0035 0149 0037 0037 0037 0037
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnarox Magnarox Magnarox Magnarox Magnarox Marantz Marta Matsushita Memorex 0048 Misolbishi Mitoubishi	. 0104, . 0035, . 0162	0035, 0047, 0046, 0209	0041, 0043, 0081, 0000, 0035, 0479, 0240, 0454,	0008, 0037, 0067, 0035, 0000, 0110, 0039, 0162, 01037, 1162, 0105, 0048, 0035,	0041 0041 0047 00278 0072 0693 0038 0037 0037 0024 0240 0240 0240 0240 0240 0240 024
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox Magnin Marantz Matsushita Memorex 0048 Minolta Mitsubishi.	. 0104, , 0035, 3, 0162	0035, 0047, 0046, 0209	0041, 0043, 0081, 0000, 0035, 0479, 0240, 0454	0008, 0037, 0067, 0067, 0000, 0000, 0110, 0039, 0162, 0000, 1162, 0000, 1162, 0000, 0048, 0105, 0048, 0005,	0041 0041 0072 0072 0693 0038 0037 0037 0208 0072 0035 0240 0240 0240 0240 0035 0149 0037 0037 0037 0037 0037 0037 0037
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnin Marantz Marta Matsushita Memorex 0048 Misubishi Motorola Multitech NAD NEC	. 0104, , 0035, 3, 0162	0035, 0047, 0046, 0209	0041, 0043, 0081, 0000, 0035, 0479, 0240, 0043,	0008, 0037, 0067, 0035, 0000, 0061, 0000, 0110, 0039, 1162, 0000, 1162, 0001, 1162, 0005, 0048, 0035, 0048, 0048, 0058,	6041 0041 0041 0041 0041 0041 0072 0693 0037 0037 0037 0240 0240 0244 0244 0245 0035 0037 0363 0037 1262 0042 0044 0072 0045 0045 0045 0045 0045 0045 0045 0045 0045 0045 0045 0045 0072 0048 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0058 0164 0072 0058 0058 0164 0072 0058 0058 0164 0072 0058 0058 0164 0072 0058 0058 0164 0072 0058 0058 0164 0072 0058 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0164 0072 0058 0058 0164 0058 0058 0058 0164 0058 0058 0058 0058 0164 0058 00
JVC. Jensen KEC KLH Keen Kenwood. Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Matsushifa Memorex	. 0104, 0035, 0162	0035, 0047, 0209	0041, 0043, 0081, 0000, 0035, 0479, 0240, 0454, 0043,	0008, 0037, 0067, 0035, 0000, 0061, 0000, 0110, 0039, 1162, 0000, 11762, 0001, 0048, 0005, 0048, 0005, 00067,	0041 0041 00278 0072 0693 0038 0037 0037 0037 00240 0240 0240 0240 0035 0037 0035 0149 0035 0037 1262 0007 0035 0037
JVC. Jensen KEC KLH Keen Keen Keen Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Matsushita Memorex 0048 0038 Minoita Multitech NAD NEC Nikko Nikon	. 0104, . 0035, . 0173	0035, 0047, 0046, 0209	0041, 0043, 0081, 0000, 0454, 0043, 0041,	0008, 0007, 0067, 0035, 0000, 0061, 0000, 0110, 0039, 1037, 1162, 0048, 0035, 0000, 0067,	0041 0041 007278 00722 0693 0038 0037 0037 0037 00240 0240 0240 0240 0240 0278 0035 0037 01454 0037 0037 0037 0037 0037 0036 0037 0037
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnarox Magnin Marantz Marta Matsushifa Memorex	. 0104, . 0035, . 0162	0035, 0047, 0046, 0209	0041, 0043, 0081, 0000, 0035, 0479, 0240, 0454	0008, 0037, 0067, 0035, 0000, 0061, 0000, 0110, 0081, 0162, 0000, 1037, 1162, 0000, 0041, 0035, 0000,	0041 0041 00278 0072 0093 0093 0037 0037 00208 00240 0240 0240 00278 0035 0037 1262 0042 0035 0037 0037 0037 0037 0037 0037 0040 0040
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnarox Magnin Marantz Marta Matsushifa Memorex	. 0104, . 0035, . 0162	0035, 0047, 0046, 0209	0041, 0043, 0081, 0000, 0035, 0479, 0240, 0454	0008, 0037, 0067, 0035, 0000, 0061, 0000, 0110, 0081, 0162, 0000, 1037, 1162, 0000, 0041, 0035, 0000,	0041 0041 00278 0072 0093 0093 0037 0037 00208 00240 0240 0240 00278 0035 0037 1262 0042 0035 0037 0037 0037 0037 0037 0037 0040 0040
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnarox Magnin Marantz Marta Matsushifta Memorex. 0048 Minolta Mitsubishi Motorola Miltitech NAD NEC Nikko Nikon NAD NeC Olympus Optimus	. 0104, , 0035, 3, 0162 . 0173	0047, 0047, 0046, 0209	0041, 0043, 0081, 0000, 0035, 0479, 0240, 0043, 0041,	0008, 0037, 0067, 0035, 0000, 0061, 0000, 0110, 0081, 1162, 0048, 0035, 0048, 0035, 0048, 0035, 0048, 0035,	0041 00278 0072 00693 0037 0208 0072 0240 0037 0240 0037 0264 00037 0265 0042 00672 0068 0072 0068 0072 0068 0072 0068 0072 0068 0037 0263 0037 0263 0037 0263 0037 0263 0042 00672 0068 0037 0263 0042 0037 0263 0042 0037 0263 0042 0042 0037 0263 0042 0042 0042 0037 0263 0042 0042 0037 0263 0042 0037 0263 0042 0042 0037 0263 0042 0042 0042 0042 0043
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnarox Magnin Marantz Marta Matsushifta Memorex. 0048 Minolta Mitsubishi Motorola Miltitech NAD NEC Nikko Nikon NAD NeC Olympus Optimus	. 0104, , 0035, 3, 0162 . 0173	0047, 0047, 0046, 0209	0041, 0043, 0081, 0000, 0035, 0479, 0240, 0043, 0041,	0008, 0037, 0067, 0035, 0000, 0061, 0000, 0110, 0039, 1037, 1162, 0048, 0035, 0048, 0035, 1040, 0040, 0039,	0041 00278 0072 00693 0037 0208 0072 0240 0037 0240 0037 0264 00037 0265 0042 00672 0068 0072 0068 0072 0068 0072 0068 0072 0068 0037 0263 0037 0263 0037 0263 0037 0263 0042 00672 0068 0037 0263 0042 0037 0263 0042 0037 0263 0042 0042 0037 0263 0042 0042 0042 0037 0263 0042 0042 0037 0263 0042 0037 0263 0042 0042 0037 0263 0042 0042 0042 0042 0043
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik MEI MGA MTC Magnasonic Magnin Magnavox Magnin Marantz Marta Matsushita Memorex 0048 Minolta Mitsubish Motorola Multitech NAD NEC Nikko Nikko Nikko Nikon Noblex Optonica Optonica	. 0104, . 0035, . 0162, . 0162, . 3, 1262	0035, 0047, 0046, 0209 0061, 0454, 0037,	0041, 0043, 0043, 0081, 0000, 0035, 0479, 0240, 0454, 0043, 1062, 1048, 0184,	0008, 0007, 0007, 0008, 0001,	0041 0278 0072 00893 0038 0037 0208 0072 0035 0240 0240 0278 0037 0208 0072 00056 0240 0278 00563 0240 0035 0240 0036 0037 0207 0037 0207 0207 0207 0207 0207
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnarox Magnin Marantz Marta Matsushifa Memorex	. 0104, , 0035, , 0162 . 0173 . 0038	0035, 0047, 0046, 0209 0061, 00454, 0037,	0041, 0043, 0081, 0000, 0035, 0479, 0240, 0454, 1062, 1048,	0008, 0037, 0067, 0035, 0000, 0110, 0081, 0162, 0000, 0105, 0048, 0035, 0048, 0035, 0105, 0048, 0035, 0105, 0049, 01105, 0049, 01105, 0105, 0	0041 0278 0077 0208 0077 0208 0077 0208 0035 0048 0037 0240 0035 0040 0035 0040 0035 0040 0070 0070 0070 0077 0077 0077 007
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox Magnin Marantz Matsushita Memorex 0048 Minolta Mitsubishi Motorola Multitech NAD NEC Olympus Optimus Optimus Optonica Orion Panasonic	. 0104, . 0035, . 0162, . 0163, . 0162, . 0162, . 0479, . 0035, . 1062,	0035, 0047, 0046, 0209 0061, 0454, 0037, 0002, 0162, 1262,	0041, 0041, 0081, 0080, 0035, 00479, 0240, 0454, 1062, 1048, 0184, 0454,	0008, 0037, 0067, 0035, 0000, 0061, 0000, 0039, 0039, 1162, 0000, 0000, 0000, 0000, 1162, 0004, 0004, 0004, 0004, 0010, 0010, 0010, 0010, 0010,	0041 0278 0077 0048 077 00616 0077 0077 0078 00077 00616 00077 0076 0077 0076 0077 00616 0077 0076 0077 00616
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnin Marantz Marta Matsushita Memorex 0048 Minolta Mitsubishi Motorola Multitech NAD NEC Nikko Nikon Noblex Olympus Optimus 0056 Optonica Panasonic	. 0104, . 0035, . 0162, . 0162, . 3, 1262 . 0479 . 0035, . 1062	0035, 0047, 0046, 0209 0061 0454, 0037 0002 0162, 1262,	0041, 0043, 0043, 0081, 0000, 0454, 0041, 1062, 1048, 0184, 0454, 1048,	0008, 0007,	0041 0278 0072 0693 0038 0037 0208 0072 00035 0240 0278 0693 0037 0208 072 0065 0240 0278 0653 0240 0035 0240 0035 0037 0208 0072 0064 0072 0072 0072 0072 0072 0072 0072 007
JVC. Jensen KEC KLH KEC KLH Keen Kenwood Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnarox Magnin Marantz Marta Marta Matsushifa Memorex	. 0104, , 0035, , 0162 . 0173 . 0038 . 0162, . 0479 . 0035, . 1062	0035, 0047, 0046, 0209 0061, 00454, 0037, 00022, 1262, 0035,	0041, 0043, 0081, 0000, 0035, 0479, 0240, 0454, 1048, 1062, 1048, 1362, 0240, 0038,	0008, 0037, 0067, 0035, 0000, 00110, 0081, 0162, 0000, 0105, 0048, 0035, 0048, 0035, 0105, 0040, 01105, 0040, 0050, 0061, 0050	0041 00278 0077 0081 0091 0091 0091 0091 0091 0091 0091
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marta Matsushifa Memorex	. 0104, , 0035, , 0162 . 0173 . 0038 . 0162, . 0479 . 0035, . 1062	0035, 0047, 0046, 0209 0061, 00454, 00037, 00022 00162, 1262,	0041, 0043, 0081, 0000, 0035, 00479, 0240, 0454, 1062, 1048, 0184, 0240, 0240, 0454,	0008, 0007, 0035, 0000, 000110, 0003, 1037, 1162, 0035, 0000, 0001, 1037, 1162, 0035, 0048, 0035, 0040, 0035, 0040, 0035, 0040, 0035	0041 00278 0077 00818 0097 00954 00954 00954 0095 0097 0095 0095 0095 0095 0095 0095
JVC. Jensen KEC KLH KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnavox Magnin Marantz Marantz Matsushita Memorex	. 0104, , 0035, , 0162 . 0173 . 0038 . 0162, . 0479 . 0035, . 1062	0035, 0047, 0046, 0209 0061, 0037, 0002, 1262, 0035,	0041, 0041, 0043, 0035, 00454, 0041, 1062, 1048, 0184, 1362, 0240, 0454, 1362, 0240, 0035, 0035, 0035,	0008, 0007, 00061, 0006	0041 0278 0072 0693 0037 0203 0037 0253 00042 0077 0265 0077 0616 0042 0077 0618 00054 000
JVC. Jensen KEC KLH Keen Kenwood Kodak LXI Lloyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnin Magnavox Magnin Marantz Marta Matsushita Memorex 0048 Minolta Mistubish Motorola Multitech NAD NEC Nikkon Noblex Olympus Optonica Orion Panasonic Penney Pentax Philoo Philips	0104, 0035, 9, 0162 0173 0038 0162, 0479 0035, 1062	0035, 0047, 0046, 0209 0061, 0002, 0002, 0002, 0003, 00081,	0041, 0043, 0043, 0081, 0000, 0035, 0479, 0240, 0454, 1062, 1048, 0184, 0454, 1362, 0240, 0035, 0035, 0110	0008, 0007,	0041 0278 0072 0693 0038 0037 0208 0072 00693 0240 0240 0278 00658 037 0208 0072 00640 0278 00650 0072 00640 0075 0075 0075 0075 0075 0075 0075 00
JVC. Jensen KEC KLH KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnarox Magnin Marantz Marta Marta Memorex	. 0104, . 0035, . 0162 . 0173 . 0038 . 0162, . 1282 . 0479 . 0035, . 1062	0035, 0047, 0046, 0209 0061, 0040, 0037, 0002, 0162, 1262, 0035,	0041, 0043, 0043, 0035, 0479, 0240, 0454, 1362, 1048, 0035, 0035, 0035, 0035,	0008, 0007,	0041 00278 0072 0618 0072 0618 18181 1811 100278 0074 00037 0054 00693 0077 00618 11811 00047 0078 00618 11811 00047 0078 00618 0077 0618 0042 00654 0
JVC. Jensen KEC KLH KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnarox Magnin Marantz Matsushita Meroex	. 0104, . 0035, . 0162 . 0173 . 0038 . 0162, . 0479 . 0035, . 1062	0035, 0047, 0046, 0209 0061, 0037, 0002, 1262, 0035,	0041, 0041, 0043, 0035, 00454, 1062, 1048, 1064, 1362, 0240, 035, 0240, 035, 035, 035, 0110	0008, 0007, 00061, 0006	0041 0278 0072 0693 0037 0253 0240 0037 0253 0240 0077 0616 0042 0077 0618 1181 00067 0067 0067 0067
JVC. Jensen KEC KLH KEC KLH Keen Kenwood Kodak LXI Lioyd's Logik MEI MGA MGN Technology MTC Magnasonic Magnarox Magnin Marantz Marta Marta Memorex	. 0104, . 0035, . 0162, . 0162, . 0479 . 0035, . 1062	0035, 0047, 0046, 0209 0061, 0454, 0037, 0002, 0162, 1262, 0035,	0041, 0043, 0043, 0081, 0000, 0035, 0479, 0240, 0454, 0041, 1062, 1048, 0184, 0454, 0038, 0035, 0035, 0110	0008, 0007,	0041 0278 0072 0081 0091 0091 0091 0091 0091 0091 0091

Profitronic.						0240
Proscan			. 0060,	0202,	0760,	076
Protec Pulsar					0039	0072
Quarter						
Guartz						004
Quartz Quasar RCA		. 0035	0162	0077.	0454.	1162
RCA	0060,	0149.	0202.	0042,	0058.	0105
003	35, 0048	, 0077	0106,	0240,	0760	076
Radio Shad	sk				0000,	1037
Radix						0037
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Realistic			0000,	0104,	0047,	0048
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ReplayTV .					0014	0016
Ricoh Runco						
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STS Samsung .			0045	0051.	0053.	0241
Samtron						0643
Sanky					0039.	0048
Sanky Sansui	0041	, 0479,	0000,	0067,	0209,	027
Sanyo Scott			0047,	0046,	0104,	0240
Scott			0184,	0211,	0121,	0043
				UU45,	0210,	0212
Sears		0054,	0105,	0037,	0042,	0000
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Semp Sharp				0040	0000	0704
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Shintom Shogun					0051	0017
Singer					2001	007
Singer Sony			0033	0034	0032	0253
			. UUUU,	UUJ5,	0636,	1032
Sunnak						0251
Sylvania.		. 0035	0081	0000,	0043,	0110
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IMK				0036,	0208,	0244
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Technics Teknika				2000	0035,	0167
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Tivo					0618	063
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Vector Vector Res Video Cond	earch			0040.	 0038, 0045.	0044
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Vector Vector Resi Video Conc Videosonic Wards	earch	0060, 0048,	0062,	0040, 0000, 0081, 0072.	0038, 0045, 0047, 0149, 0278.	0045 0046 006 0246 0212 0766 0205
Vector Resivideo Cond Video Cond Videosonic Wards	earch	0060, , 0048,	0062,	0040, 0000, 0081, 0072, 0072,	0038, 0045, 0047, 0149, 0278, 0000,	0044 006 0246 0212 0766 0205
Vector Resivideo Cond Video Cond Videosonic Wards	earch	0060, , 0048,	0062,	0040, 0000, 0081, 0072, 0072,	0038, 0045, 0047, 0149, 0278, 0000,	0044 006 0246 0212 0766 0205
Vector Vector Resivideo Conc Videosonic Wards 024 White West XR-1000 Yamaha	earch	0060, , 0048,	0062,	0040, 0000, 0081, 0072, 0072,	0038, 0045, 0047, 0149, 0278, 0000,	004: 004: 024: 024: 0212 076: 020: 003: 003:
Vector Resivideo Cond Video Cond Videosonic Wards	earch	0060, , 0048,	0062,	0040, 0000, 0081, 0072, 0072,	0038, 0045, 0047, 0149, 0278, 0000,	004: 004: 024: 024: 0212 076: 020: 003: 003:
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Vector Vector Res Video Conc Videosonic Wards	earch	0060, , 0048, e	0062, 0072, 0073,	0040, 0000, 0081, 0072, 0072, 0039, 0034,	0038, 0045, 0047, 0149, 0278, 0000, 0637, 0209,	004: 004: 024: 0212 076: 020: 003: 003: 007:
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Vector Res Video Conc Res Video Conc Video C	earch	0060, , 0048, e	0062, 0072, 0073,	0040, 0000, 0081, 0072, 0072, 0039, 0034,	0038, 0045, 0047, 0149, 0278, 0000, 0637, 0209, 0655, 0490,	0048 0069 0244 0212 0766 0208 0038 0000 0478 0756 0736 0662
Vector Res Video Cont Videosonic Wards 0222 White West XR-1000 Yamaha Zenith DVD BRAN Aiwa Audiologic B & K Denon Emerson Emerson	earch cepts 0035, 40, 0042 tinghous	0060, , 0048, e	0062, 0072, 0073,	0040, 0000, 0081, 0072, 0072, 0039, 0034,	0038, 0045, 0047, 0149, 0278, 0000, 0637, 0209, 0672, 0655, 0490,	0048 0044 006 0240 0212 0766 0203 0036 0000 0475 064 0756 0666 063 059
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Vector Reservices of the Vector Reservices of	earch	0060, 0048, e e	0062, 0072, 0033,	0040, 0000, 0081, 0072, 0072, 0039, 0034,	0038, 0045, 0047, 0149, 0278, 0000, 0637, 0209, 0655, 0490, 00522,	0048 0044 00212 0766 0208 0038 0000 0475 0064 0758 0663 069 0671 0768
Vector Res Video Conc Videosonic Wards 024 White West XR-1000 Yamaha Zenith DVD BRAN Aiwa Apex Audiologic B & K Denon Emerson Fisher GE GPX Go Video	earch cepts 0035, 40, 0042 tinghous	0060, 0048, e	0062, 0072, 0033,	0040, 0000, 0081, 0072, 0072, 0039, 0034,	0038, 0045, 0047, 0149, 0278, 0000, 0637, 0209, (0672, 0655, 0490,	0048 0044 00212 0766 0208 0038 0000 0475 0064 0758 0663 0663 0671 0768 0718
Vector Vector Res Video Conc Videosonic Wards 022 White West XR-1000 Yamaha Zenith	earch	0060, 0048, e	0062, 0072, 0073, 0033,	0040, 0000, 0081, 0072, 0072, 0034,	0038, 0045, 0047, 0149, 0278, 0000, 0637, 0209, (0672, 0655, 0490,	0048 0041 0024 0766 0201 0030 0047 0050 0475 0736 0663 0671 0718 0718 0665
Vector New Vector Res Video Corn	earch	0060, , 0048, e	0062, 0072, 0033,	0040, 0000, 0081, 0072, 0072, 0039, 0034,	0038, 0045, 0047, 0149, 0278, 0000, 0637, 0209, 0655, 0490,	0048 0041 00242 0766 0203 0003 0000 0478 0663 0697 0718 0718 0665 0718 0665
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Vector New Vector Res Video Corn	earch	0060, 0048, e	0062, 0072, 0033,	0040, 0000, 0081, 0072, 0072, 0039, 0034,	0038, 0045, 0047, 0149, 0070, 0278, 00637, 0209, 0655, 0490, 0522, 0573, 0623, 0682, 0720, 0720, 0720, 0720, 0682, 07200, 0720, 0720, 07200, 07200, 07200, 07200, 07200, 07200, 0720000, 07200, 0720000000000	0044 0046 0241 0276 0291 0033 0033 0000 0473 0756 063 059 0676 0715 066 0676 065 065 065 065 065 065 065 065 065
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Vector New Vector Res Video Corn	earch	0060, , 0048, e e	0062, 0072, 0033,	0040, 0000, 0081, 0072, 0039, 0034,	0038, 0045, 0047, 0047, 0209, 0672, 0655, 0490, 0573, 0623, 0662, 0720, 0503, 0720, 0503, 0623, 0682, 0720, 0503, 0623, 0682, 0720, 0503, 0720, 0503, 07200, 07200	0044 0046 0240 0241 0276 0297 0033 0000 0475 0663 0663 0671 0665 0663 0663 0676 0663 0663 0663 0663 0663
Vector New Vector Res Video Corn	earch	0060, 0048, e	0062, 0072, 0033,	0040, 0000, 0081, 0072, 0072, 0039, 0034,	0038, 0045, 0047, 0149, 0278, 0000, 0637, 0209, 0652, 0490, 0522, 0720, 0503, 0682, 0720, 0503, 06627, 0662	0044 0044 0024 0024 0026 0036 0036 0036 0047 0756 063 063 0671 065 0676 065 0677 065 063 063 0677 065 063 063 065 063 063 065 065 065 065 065 065 065 065 065 065
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Vector Vector Res Video Corn Videosonic Wards 024 White Wesi XR-1000 Yamaha Zenith DVD BRAN Aiwa Apex Denon Emerson Fisher GE GPX Go Video Gradiente Harmani/Keniker JVC Kenwood Konka Magnavox Marantz Mitsubishi Onkyo Optimus Optimus Optimus Oritron Panasonic Princeton Princeton Princeton Princeton Princeton RCA	earch	0060, 0048,	0062, 9072, 0033, 0719,	0040, 0000, 0081, 0072, 0072, 0039, 0034, 0737, 0711,	0038, 0045, 0047, 0149, 0208, 0000, 0607, 0209, 0655, 0490, 0522, 0720, 0653, 0682, 0720, 0503, 0623, 0623, 0625, 0720,	0044 0044 00212 0766 0229 0033 0000 0475 0666 073 0666 073 0666 073 0676 0715 0656 0715 0656 0676 063 0677 0656 063 0676 063 0676 063 0676 063 0676 063 0676 063 0676 063 0676 063 0676 063 063 0676 063 0676 063 0676 063 0676 063 0676 063 0676 063 063 063 063 063 063 063 063 063 06
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Vector Res Video Corr Vector Res Video Corr Videosonic Wards 024 White Wesl XR-1000 Yamaha Zenith DVD BRAN Aiwa Apex Denon Emerson Fisher GE GPX Go Video Gradiente Harman/Ka Hitachi Hitachi Hiteker JVC Kenwood Konka Magnavox Marantz Mitsubishi Ontiron Panasonic Prillips Pioneer Princeton Princeton Princeton Princeton Samsung Sanyo Sanyo Sanyo Sharp	earch	0060, 0048,	0062, 0072, 0033, 0719, 0490,	0040, 0000, 0081, 0072, 0072, 0039, 0034, 0737, 0711, 0677,	0038, 0045, 0047, 0149, 0278, 0000, 00672, 0655, 0490, 0522, 0720, 06678, 0539, 0525, 0704, 0704, 0704, 0704, 0704	0044 0044 0066 0244 0766 0200 0031 0003 0031 0000 0473 0663 0755 0634 0711 0765 0634 0652 0653 0652 0653 0652 0653 0653 0653 0653 0653 0653 0653 0653
Vector New Vector Res Video Corn Vector Res Video Corn	earch	0060, 0048,	0062, 0072, 0033, 0719, 0490,	0040, 0000, 0081, 0072, 0039, 0034, 0737, 0711,	0038, 0045, 0047, 0149, 0050, 0060, 0060, 0060, 0060, 0060, 0065, 0490, 0522, 0720, 0503, 0627, 0627, 0678, 0539, 0525, 0704,	0044 0041 0041 0041 0012 006 0240 001 003 003 0030 007 066 073 066 071 076 067 052 067 053 060 067 052 067 053 060 067 063 060 067 063 060 067 063 060 067 063 060 067 063
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Vector Vector Res Video Corn Videosonic Wards 024 White West XR-1000 Yamaha Zenith DVD BRAN Aiwa Apex Audiologic B & K Denon Emerson Fisher GE Gradiente Harman/Ka Harman/Ka Hitachi Hiteker JVC Kenwood Konka Magnavox Magnavox Marantz Mitsubishi Ontiron Panassonic Pilips Pioneer Princeton .	earch pepts 0035, 10, 0042 inghous	0060, 0048,	0062, 0072, 0033, 0719, 0490,	0040, 0000, 0081, 0072, 0072, 0039, 0034, 0737, 0711, 0677,	0038, 0045, 0047, 0149, 0278, 0000, 0637, 0490, 0522, 0573, 0623, 0627, 0627, 0678, 0539, 0525, 0704, 0704, 0704, 0704, 0704, 0704	0044 0040 0212 0066 0244 0276 0200 0030 0030 0030 0047 0056 0736 0630 0676 0630 0676 0630 0677 0652 0633
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CABLE BRAND			C	ODE
Americast	UUU8,	UU11,	0014,	0017
Bell & Howel				.0014
Bell South				0899
Contec. Everquest. Gemini General Instrument				0015
Gemini				0015
General Instrument	0276,	0476,	0011,	0810
GoldStar				0144
Hamlin Hitachi Hytex				0011
Hytex				0007
Jasco				0015
Jerroid	003,	0012,	0270, I 0015	0810
Memorex Motorola Oak				.0000
Motorola			0476,	1106
Ontimus		• • •	0019,	0007
Pace				0237
Optimus		0021,	0107,	0000
Paragon			0305	0000
Pioneer	144.	0533.	0877.	1877
Pulsar				0000
Quasar				.0000
Radio Shack				0015
Regal		.0273,	0279,	0020
Dombrondf				00144
Runco				00000.
Runco			0008,	0017
Signal		.0477,	0877,	1877
Signal				0015
Sonv				1006
Starcom Stargate Starquest. Tocom			0003,	0015
Stargate				0015
Tocom				0012
Toshiba				0000
Tusa United Artists				0015
Zenith		0000.	0525.	0899
(SET-TOP-BOX) SATELLIT				
AlphaStar				0216
Echostar			1005,	0775
Expressvu				0775
GE				0869
HTS				0775
Hitachi				
				0819
General Instrument HTS Hitachi Hughes Network Systems .		0749,	1142,	0819 1749
JVC				0775
Magnavox			0722	0775
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Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076,	1142,	.0247,	0722, 1189, 0724,	0775 0724 0724 0749 0869 0701 0749
Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076,	1142,	.0247,	0722, 1189, 0724,	0775 0724 0724 0749 0869 0701 0749
JVC Magnavox. Memorex. Mitsubilishi Next Level Panasonic Phillips 1076, Proscan RCA 6	1142,	.0247,	0722, 1189, 0724, 0143,	0775 0724 0724 0749 0869 0701 0749 0392 0855
JVC Magnavox. Memorex. Mitsublishi. Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack	1142,	.0247, 0722, 0392,	0722, 1189, 0724, 0143,	0775 0724 0724 0749 0869 0701 0749 0392 0855
JVC Magnavox. Memorex. Mitsublishi Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack Samsung Sony.	1142,	.0247, 0722, 0392,	0722, 1189, 0724, 0143,	0775 0724 0724 0749 0869 0701 0749 0392 0855 .0869 1109 0639
JVC Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack Samsung Sony. Star Choice	1142,	.0247, 0722, 0392,	0722, 1189, 0724, 0143,	0775 0724 0724 0749 0869 0701 0749 0392 0855 .0869 1109 0639 0869
JVC Magnavox. Memorex. Mifsubishi Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack Samsung Sony. Star Choice Toshiba	1142,	.0247, 0722, 0392,	0722, 1189, 0724, 0143,	0775 0724 0724 0749 0869 0701 0749 0392 0855 .0869 1109 0639 0790
JVC Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack Samsung Sony. Star Choice	1142,	.0247, 0722, 0392,	0722, 1189, 0724, 0143, 0749, 0724,	0775 0724 0724 0749 0869 0701 0749 0392 0855 .0869 1109 0639 0790 0722
JVC Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076, Proscan RCA Radio Shack Samsung Sony. Star Choice Toshiba Uniden Zenith	1142,	.0247, 0722, 0392,	0722, 1189, 0724, 0143, 0749, 0724,	0775 0724 0724 0749 0869 0701 0749 0855 .0869 1109 0639 0790 0722 0856
JVC Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack Samsung Sony. Star Choice Tosshiba Uniden Zenith. AMPLIFIER (AMPLIFIER).	1142,	.0247, 0722, 0392,	0722, 1189, 0724, 0143, 0749, 0724,	0775 0724 0724 0749 0869 0701 0749 0392 0855 .0869 1109 0639 0790 0722 0856
JVC Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack Samsung Sony. Star Choice Toshiba Uniden Zenith. AMPLIFIER (AMPLIFIER). Aiwa	1142,	.0247, 0722, 0392,	0722, 1189, 0724, 0143, 0749, 0724,	0775 0724 0724 0749 0869 0701 0749 0392 0855 .0869 1109 0639 0790 0722 0856
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JVC Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack Samsung Sony. Star Choice Toshiba Uniden Zenith. AMPLIFIER (AMPLIFIER). Aiwa Carver Curtis Mathes Denon	0566,	.0247, 0722, 0392,	0722, 1189, 0724, 0143, 0749, 0724,	0775 0724 0724 0749 0869 0701 0749 0392 0855 0869 0790 0722 0856 CODE 0.0406 0.0300
JVC Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack Samsung Sony. Star Choice Toshiba Uniden Zenith. AMPLIFIER (AMPLIFIER). Aiwa Carver Curtis Mathes Denon GE	11142,	.0247, 0722, 0392,	0722, 1189, 0724, 0143, 0749, 0724,	0775 0724 0724 0749 0869 0701 0392 0855 0869 1109 0722 0856 CODE 0406 0269 0.0160 0.0160
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JVC Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack Samsung Sony. Star Choice Toshiba Uniden Zenith. AMPLIFIER (AMPLIFIER). Aiwa Carver Curtis Mathes Denon GE Harman/Kardon JVC Linn	0566,		0722, 1189, 0724, 0143, 0749, 0724,	0775 0724 0724 0769 0869 0701 0749 0855 0869 1109 0722 0856 0790 0722 0856 00DE 00DE 000DE 000DE 000DE
JVC Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack Samsung Sony. Star Choice Toshiba Uniden Zenith. AMPLIFIER (AMPLIFIER). Aiwa Carver Curtis Mathes Denon GE Harman/Kardon JVC Linn. Luxman	1142,	.0247, 0722, 0392,	0722, 1189, 0724, 0143, 0749, 0724,	0775 0724 0724 0724 0769 0701 0769 0769 0869 0790 0790 0790 0790 0790 0856 00406 004
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JVC Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076, Proscan RCA Radio Shack Samsung Sony Star Choice Toshiba Uniden Zenith AMPLIFIER (AMPLIFIER) Aliwa Carver Curtis Mathes Denon GE Harman/Kardon JVC Linn Luxman Magnavox. Marantz Nakamichi Optimus Panasonic Parasound Philips.	11142,	.0247, 0722, 0392,	0722, 1189, 0724, 0143, 0749, 0724, C	07754 0724 0724 0729 0869 0869 0701 0749 0392 0855 .0869 0790 0722 0856 0269 0790 0790 0790 0790 0790 0790 0790 07
JVC Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack Samsung Sony. Star Choice Toshiba Uniden Zenith. AMPLIFIER (AMPLIFIER). Aiwa Carver Curtis Mathes Denon GE Harman/Kardon JVC Liuxman Magnavox. Marantz. Nakamichi Optimus Panasonic Parasound Philips. Plioneer	1142,	0247, 0722, 0392,	0722, 1189, 0724, 0143, 0749, 0724, C	07754 0724 0724 0749 0769 0769 0769 0869 0790 0869 0790 0855 0869 0790 0869 0790 0868 0790 0869 0790 0869 0790 0869 0790 0869 0790 0869 0790 0869 0790 0869 0790 0869 0790 0869 0790 0869 0869 0790 0869 0869 0869 0869 0869 0869 0869 08
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JVC Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack Samsung Sony. Star Choice Toshiba Uniden Zenith. AMPLIFIER (AMPLIFIER). Aliva Carver Curtis Mathes Denon GE Harman/Kardon JVC Linn Luxman Magnavox. Marantz Nakamichi Optimus Panasonic Parasound Philips. Plonk Audio RCA Reallistic. Sansui	1142,	.0247, 0722, 0392,	0722, 1189, 0724, 0143, 0749, 0724, 0321, 0321, 0395, 0269, 0013, 0269,	07724 0724 0724 0724 0724 0704 0704 0707 0855 0855 0855 0856 0852 0856 0852 0856 0852 0856 0852 0856 0852 0856 0852 0856 0852 0856 0852 0856 0852 0856 0856 0856 0856 0856 0856 0856 0856
JVC Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack Samsung Sony. Star Choice Toshiba Uniden Zenith. AMPLIFIER (AMPLIFIER). Aiwa Carver Curtis Mathes Denon GE Harman/Kardon JVC Linn Luxman Magnavox. Marantz Nakamichi Optimus Panasonic Parasound Philips Pioneer Polk Audio RCA Realistic. Sansui Sony	1142,	.0247, 0722, 0392,	0722, 1189, 0724, 0143, 0749, 0724, 0321, 0395, 0269, 0013, 0269,	07754 0724 0724 0724 0729 0701 0749 0855 0869 0639 0790 0790 0790 0790 0790 0790 0790 07
JVC Magnavox. Memorex. Mitsubishi Next Level Panasonic Philips 1076, Proscan RCA (Radio Shack Samsung Sony. Star Choice Toshiba Uniden Zenith. AMPLIFIER (AMPLIFIER). Aliva Carver Curtis Mathes Denon GE Harman/Kardon JVC Linn Luxman Magnavox. Marantz Nakamichi Optimus Panasonic Parasound Philips. Plonk Audio RCA Reallistic. Sansui	1142,	.0247, 0722, 0392,	0722, 1189, 0724, 0143, 0749, 0724, 0321, 0395, 0269, 0689, 0078,	07754 0724 0724 0724 0724 0724 0724 0724 072

AMPLIFIER (R	RECEIVER)			(CODE
ADC					0531
Aiwa	0121, 0405.	1405.	0158	0189.	1089
Bose					1229
Capetronic					.0531
Carver		0189	, 0042,	1089	1189
Casio					0190
Clannette					.0195
Compaq Curtis Mathes Denon					1136
Curtis Mathes					0080
Denon			.0004	, 1160,	1104
Fisher Garrard Harman/Kardo					0042
Garrard			0004	0440	0463
Harman/Kardo	n		. 0891,	. 0110,	0189
Hewlett Packa	ra				0440
JBL					0074
Kenung			0027	1027	1212
JVC Kenwood		0042	0186	1569	1570
XI				1000	0181
Llovd's					0195
Lloyd's MCS Magnavox					0039
Magnavox			0189,	0391,	1089.
			. 0531,	1189,	0195
Marantz		0189	, 1189,	1089,	0039
Nakamichi Onkyo Optimus					0097
Onkyo					0135
Optimus		1023,	0181,	0080,	0186,
	0531,	0738,	, 0801,	0042,	0670
Panasonic		UU39.	. UJ0/.	0309.	1518
Penney			4400	4000	0195
Penney	0189, 1089,	, 1120	, 1189,	1269,	0391
Piorieer		0450	0000,	0014,	1000
Polk Audio		U I DU,	, 0531,	U03U,	0490
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Realistic		120-7	, 4001,	0181	0195
Sancui				maga	17/1910
Sanyo Sharp Sherwood Sony					0801
Sharp					0186
Sherwood				0502,	0491
Sony	0158,	1158,	1058,	1258	0474
Soundesign					Uble
Sunfire Teac					1313
Teac					0463
Technics	0309,	0039,	, 1308,	1518,	1309
Thorens Victor					1189
Victor					0074
Wards		.0014,	, 0080,	0158,	0189
Yamaha Yorx			. 0176,	.0186	1176
700X					0195
Zenith					060/
AMPLIFIER (A	i inio			,	ODE
Aiwa				0010.	0159
				2010	0000
Figher					
Fisher					0052
FisherJVC				0459	0052
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JVC	(VIDEO)		0159,	0459,	0073 0520 0460 0576 .0459
JVC Jerrold Scientific Atlan Sony Starcom SET-TOP-BOX AOL	(VIDEO)		0159,	0459,	0073 0520 0460 0576 .0459 CODE
JVC	(VIDEO)		0159,	0459,	0073 0520 0460 0576 .0459 CODE
JVC Jerrold Scientific Atlan Sony Starcom SET-TOP-BOX AOL Magnavox Mitsubishi	(VIDEO)		0159,	0459,	0073 0520 0460 0576 .0459 CODE 1061 0818 1002
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JVC Jerrold Scientific Atlan Sony Starcom SET-TOP-BOX AOL Magnavox Mitsubishi Panasonic Philips	ita		0159,	0459,	0073 0520 0460 0576 .0459 00DE 1061 0818 1002 1120 1061
JVC Jerrold Scientific Atlan Sony Starcom. SET-TOP-BOX AOL Magnavox Mitsubishi Panasonic Philips Pioneer.	(VIDEO)		0159,	0459, 0010,	0073 0520 0460 0576 .0459 00DE 1061 0818 1002 1120 1061 1010
JVC Jerrold Scientific Atlan Sony Starcom SET-TOP-BOX AOL Magnavox Mitsubishi Panasonic Philips Pioneer Princeton	((VIDEO)		0159,	0459, 0010, 0018, 0818,	0073 0520 0460 0576 .0459 00DE 1061 0818 1002 1120 1061 1010 0295
JVC Jerrold Scientific Atlan Sony Starcom SET-TOP-BOX AOL Magnavox Mitsubishi Panasonic Philips Pioneer Princeton Samsung	(VIDEO)		0159,	0459, 0010, 0818,	0073 0520 0460 0576 .0459 CODE 1061 0818 1002 1120 1061 1010 0295
JVC Jerrold Scientific Atlan Sony Starcom SET-TOP-BOX AOL Magnavox Mitsubishi Panasonic Philips Pioneer Princeton Samsung Sensory Scien	(VIDEO)		0159,	0459, 0010, 0818, 0113,	0073 0520 0460 0576 .0459 00DE 1061 0818 1002 1120 1061 1010 0295 1190 1126
JVC	(VIDEO)		0159,	0459, 0010, 0818, 0113,	0073 0520 0460 0576 .0459 00DE 1061 0818 1002 1120 1061 1010 0295 1190 1126 1010
JVC Jerrold Scientific Atlan Sony Starcom SET-TOP-BOX AOL Magnavox Mitsubishi Panasonic Philips Pioneer Princeton Samsung Sensory Scien	(VIDEO)		0159,	0459, 0010, 0818, 0113,	0073 0520 0460 0576 .0459 00DE 1061 0818 1002 1120 1061 1010 0295 1190 1126 1010

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 remote sensor of the TV and press the TV button. The TV button will blink, indicating that the remote will now control your television.

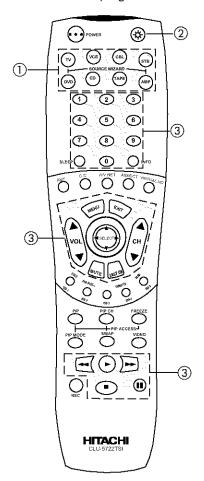
To operate your VCR, point the remote at the remote sensor of the VCR and press the VCR button. The VCR button will blink, indicating that the remote will now control your VCR. (See page 31 for instructions on how to program the remote to control your VCR.)

To operate your cable box, point the remote at the remote sensor of the cable box and press the CABLE (CBL) button. The CBL button will blink, indicating that the remote will now control your cable box. (See page 32 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 press the SET-TOP-BOX (STB) button. The STB button will blink, indicating that the remote will now control your set-top-box. If you have a satellite receiver, use this button to prorame your satellite receiver. (See page 33 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 press the DVD button. The DVD button will blink, indicating that the remote will now control your DVD player. (See page 34 for instruction on how to program the remote to control your DVD player.)

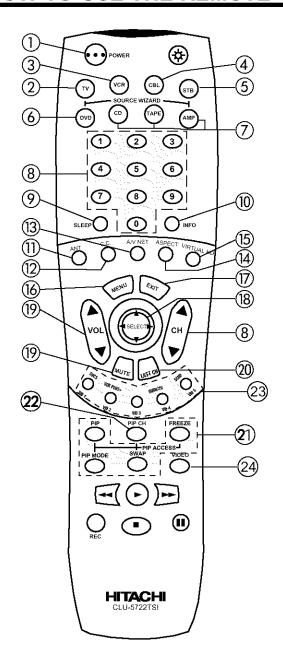
To operate additional audio equipment, point the remote at the remote sensor of the component you wish to control and press the CD, TAPE or AMP button. This button will blink, indicating that the remote will now control the desired component. (See page 35 for instructions on how to program the remote to control additional Audio/Video equipment.)



1 These buttons allow the remote to control your TV, VCR, cable box, satellite receiver, DVD player, or other Audio/Video equipment depending on which mode is chosen, as explained above.

(2),(3) LIGHT BUTTON

When you are in a dark room, press the light button ② on the remote to light up the buttons shown in ③ and the source button will blink. The light will stay on for about 8 seconds if the light button is not pressed again. These buttons will not appear to light if the room is too bright.



(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) TV button
 - When the TV button is pressed, it will blink, to indicate the remote is in TV mode.
- (3) VCR button

When the VCR button is pressed, it will blink to indicate the remote is in VCR mode. (see page 31)

(4) CABLE (CBL)

When the CABLE button is pressed, it will blink to indicate the remote is in CABLE mode. (see page 32)

(5) SET-TOP-BOX (STB)

When the STB button is pressed, it will blink to indicate the remote is in STB mode. (see page 33) If you have a Satellite receiver, use this button to program your Satellite receiver. (see page 33)

(6) DVD button

When the DVD button is pressed, it will blink to indicate the remote is in DVD mode. (see page 34)



CD, TAPE, AMP buttons

When pressed, each of these buttons will blink to indicate the remote is in Audio mode. (see page 35)

CHANNEL selector buttons

CHANNEL selector buttons are used to select channels, lock access code, etc.

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, press the "1" button, wait until two dashes appear next to the channel display on your TV, then enter the remaining two numbers using the number buttons.

Channel selection may also be performed by pressing CH up (▲) or down (▼).

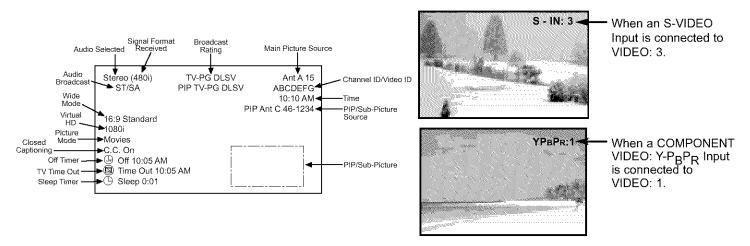
NOTE: The TV may not receive some channels if you are not in the correct ANTENNA/CABLE mode. (see page 57)

(9) SLEEP button

Press this button to display the sleep timer in the lower left corner of the screen. Every subsequent press of this button will add 15 minutes to this timer, up to a maximum of three hours. Once set, use STATUS when you want to view time remaining. If the SLEEP button is pressed while the timer is set, it will reset to the original condition.

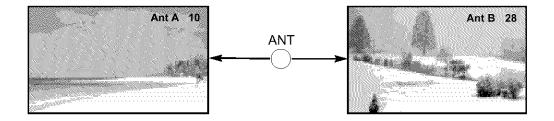
(10) INFO button

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



(11) ANTENNA button

The ANT button will select between Antenna A and Antenna B each time the button is pressed.



(12) C.C. button

Press this button to quickly turn the Closed Caption feature on, off and auto. You can also access this feature on the Setup menu. (See age 62).

(13) AV/NET button

Press this button to access the Audio/Video network (A/V Net) menu. The A/V Net allows the user to control external components with the TV's remote control.

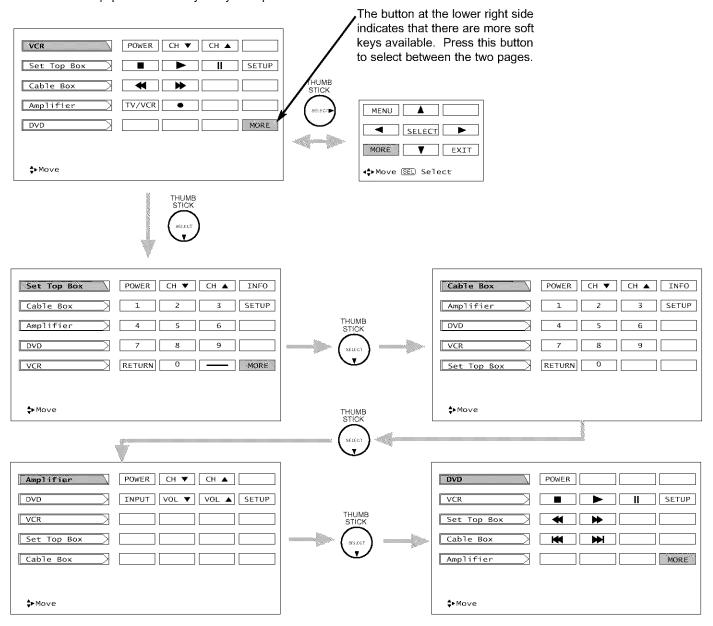
When you press the A/V NET button, the following window will pop up within the Display screen. The window will disappear after eight seconds if you don't press any buttons. Press the A/V NET button again and the last window displayed will appear.

The A/V Net Setup Wizard will automatically start upon the very first use. (see page 18-20).

THUMBSTICK ▲ or ▼ to highlight the equipment you wish to control or setup.

Use THUMBSTICK ♠, ▼, ♠ to navigate and SELECT to select button. The command on the button is passed through the IR mouse and onto the AUDIO/VIDEO equipment. These on-screen buttons are called "Soft Keys".

This window shows the available Audio/Video equipment soft keys. The equipment list will scroll up or down but the selected equipment will always stay on top.



NOTES: There are some devices that don't have a function matching the softkey A/V NET display.



(14) ASPECT button

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

Depending on the input signal, 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 phospors. 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 expanding the outer edges of the image

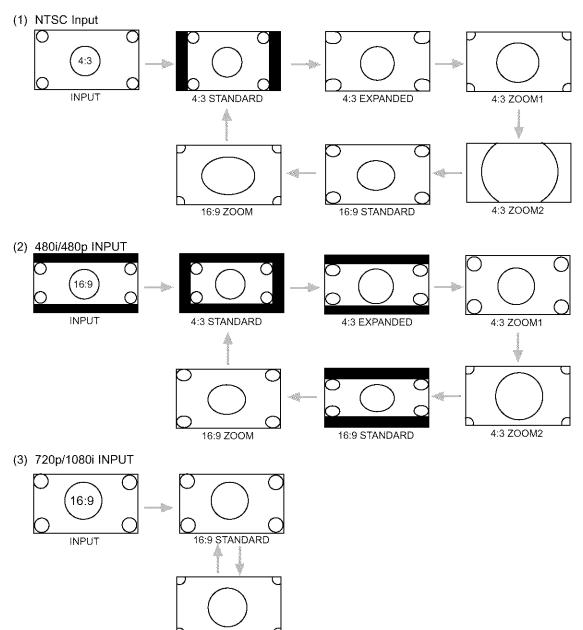
to fill the 16:9 screen. The center of the image remains unaltered.

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.



16:9 ZOOM



NOTES: 1. Depending on the input signal, some of the aspect features will not be available.

Set up a Component signal (connect component to Y-P_BP_R inputs) and switch to VIDEO:1 or 2 by pressing the VID1 or VID2 button on the Remote Control when planning to use all picture formats features.

(15) VIRTUAL HD button

Press this button to toggel between 1080i and 540p.

(16) MENU button

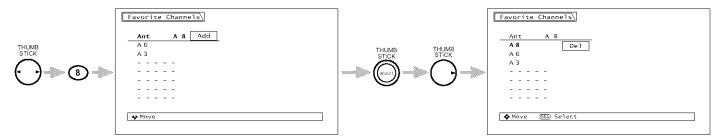
The MENU button will start the On-Screen Display.

(17) EXIT button

When in MENU mode, this button will exit all On-Screen Displays.

(18) THUMB STICK/SELECT button

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



When no on-screen displays are on the TV screen, use THUMB STICK ◀ or ▶ to access the Favorite Channels feature.

To add channels to Favorite Channels, use the number keys to enter the channel number. Use THUMB STICK ▶ to highlight "Add", then press SELECT to store the channel to the Favorite Channel feature.

To delete (Del) the channel from the Favorite Channel, use THUMB STICK ▲ , ▼ to highlight the channel, then THUMB STICK ▶ to highlight Delete (Del) and press SELECT to delete.

To view a Favorite Channel use THUMB STICK ▲, ▼ to highlight the channel and press SELECT to view.

(19) VOLUME, MUTE button

Press the VOLUME up (▲) or down (▼) button until you obtain the desired sound level.

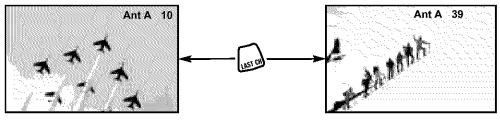
To reduce the sound to one half of normal volume (SOFT MUTE) to answer the telephone, etc., press the MUTE button. Press the MUTE button again to turn the sound off completely (MUTE). To restore the sound, press the MUTE button one more time, or press the VOLUME Up (**A**) button.



Closed Captioning will display when MUTE/SOFT MUTE is on and Closed Caption is set to AUTO (See page 62).

(20) LAST CHANNEL (LAST CH) button

Use this button to select between the last two channels viewed. (Good for watching two sporting events, etc.)





(21) PICTURE-IN-PICTURE buttons

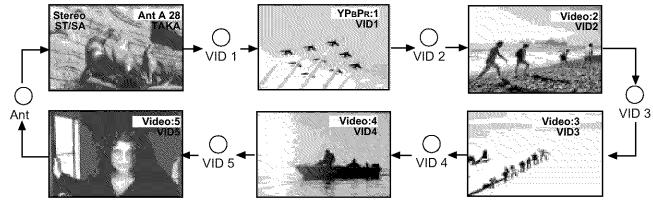
See separate section on pages 28~30 for a description.

22 PIP CH button

Use the PIP CH button to select between main picture and sub-picture tuning. The channel number which is highlighted indicates what channel is being controlled.

(23) VID1 ~ VID5

When the remote control is in TV mode, press these buttons to directly select the video input sources between the five video inputs. When the remote control is in Set-Top-Box mode (STB) these buttons will control the Set-Top-Box or satellite receiver, and execute the secondary function labelled.



(24) VIDEO button

Press this button to directly access the VIDEO adjustment menu.

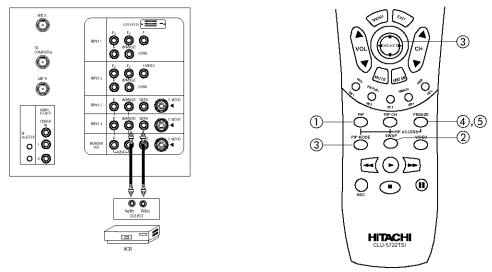


PICTURE-IN-PICTURE (PIP)

Your HITACHI Projection TV incorporates Dual Tuner technology designed for improved viewing enjoyment. This Dual Tuner feature allows you to view antenna inputs on both the main picture and sub-picture simultaneously, with separate tuning control for each. The Dual Tuner can operate with only one input (ANT A only) or two inputs (ANT A and ANT B).

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, press the PIP CH button on the remote. The green highlighted channel display will move with every press of the PIP CH button. When the top channel display is highlighted, channel tuning is for the main picture. When the lower channel display is highlighted, channel tuning is for the PIP sub-picture.

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 the ANT A source or any of the video inputs.



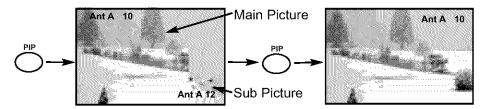
Use above connection to view VCR program as a sub-picture while viewing another program as main picture (ANT A, ANT B, V:2, V:3, V:4, or V:5). You may also view the VCR program as a main picture while viewing another program as a sub-picture (ANT A, ANT B, V:2, V:3, V:4, or V:5).

(1) 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 last selection of the PIP mode. To change the PIP mode, use the PIP MODE button to cycle through the four different modes.

POP MODE PICTURE-IN-PICTURE

Press the PIP button and a sub-picture appears in one of the four different modes (POP, PIP, SPLIT or SURF), depending on the last selection of the PIP mode. Press the PIP button again to remove the sub-picture from the screen. Use the PIP CH button to select between main and sub-picture tuning control (indicated by green highlighted channel display.) Press the VID1, VID2, VID3, VID4 or VID5 button when sub-picture channel tuning is being controlled, to change between VIDEO: 1, VIDEO: 2, VIDEO: 3, VIDEO:4 and VIDEO:5 and ANT:A source. (ANT B source cannot be viewed as a sub-picture.)

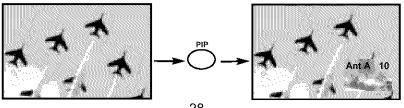


NOTES: 1. When ANT B is selected as the main channel, the SWAP feature is disabled.

2. In POP mode, thumb stick CURSOR ▲, ▼ will move the sub picture up/down.

PIP MODE PICTURE-IN-PICTURE

This feature is only available when the input is a 1080i signal.

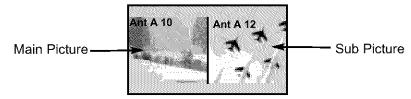


PICTURE-IN-PICTURE (PIP)



SPLIT MODE PICTURE-IN-PICTURE

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



SURF MODE PICTURE-IN-PICTURE

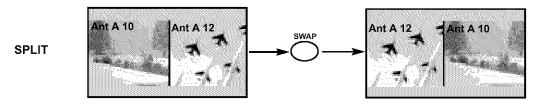
This feature will automatically scan all active channel numbers (those set in memory) and display them as PIP sub-pictures, Press the PIP button a second time to remove the sub-pictures from the screen.



- NOTES: 1. If no buttons are pressed when in SURF mode, auto-scanning will continuously scan channels in memory. (see page 48)
 - 2. If a channel is tuned during this SURF scanning, sub-pictures will be removed from the screen.
 - 3. SURF MODE PIP is allowed only when ANT A or ANT B is selected as the main channel.
 - 4. If MOVIE/TV RATINGS lock functions setting is ON, SURF mode will be deactivated.
 - 5. Closed Caption will not appear when SURF mode is on.

2 SWAP button

If you wish to switch what is being shown on the main picture to the sub-picture, press the SWAP button.

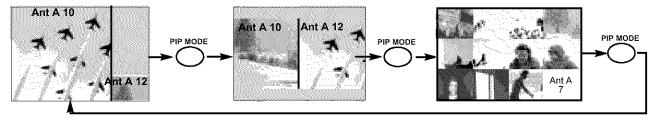


NOTES: 1. The SWAP button will only operate in POP/SPLIT PIP mode.

2. The SWAP function will not operate if ANT B input is set as the main channel (ANT B input cannot be displayed as a sub-picture.)

(3) PIP MODE button

To change between the different PIP modes (POP, PIP, SPLIT or SURF) press the PIP MODE button when PIP is ON. Each press of this button will change PIP to a different mode.



PIP MODES will depend on the type of input signal.

PICTURE-IN-PICTURE (PIP) MODES

	POP	PIP	SPLIT	SURF
NTSC (ANT A/B)	YES		YES	YES
480i	YES		YES	
480p			YES	
720p			YES	
1080i		YES	YES	

PICTURE-IN-PICTURE (PIP)

4 FREEZE button (With PIP ON)

If you wish to freeze the sub-picture, press the FREEZE 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 FREEZE button again.

NOTE: When PIP is on, the FREEZE function will only operate when POP/PIP/SPLIT mode is chosen.

(5) FREEZE button (With PIP OFF)

Press the FREEZE button to freeze the picture, depending on the PIP mode selected (POP Main Freeze, POP Sub Freeze, SPLIT or STROBE).

To change FREEZE modes, use the PIP MODE button to cycle through the three different modes.

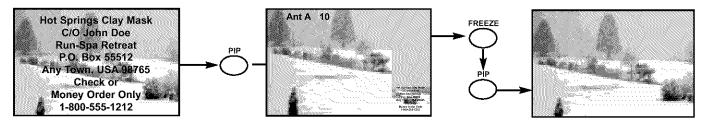
POP MAIN FREEZE

PIP should be in POP mode. Press the FREEZE button to freeze one frame of the picture you are currently viewing and the frozen frame will show in the Main Picture. Press this button again or PIP to return to normal viewing. This feature is useful for freezing a picture frame with addresses.



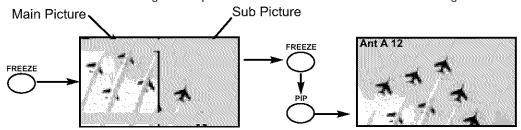
POP SUB FREEZE

PIP should be in POP mode. Press the PIP button and then press the FREEZE button to freeze the sub-picture. Press the FREEZE button again and press the PIP button to return to normal viewing.



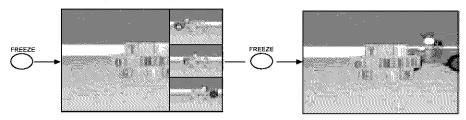
SPLIT FREEZE(with PIP off)

PIP should be in SPLIT mode. Press the FREEZE button to freeze the picture you are currently viewing (only the right sub-picture will freeze). Press the FREEZE button again and press the PIP button to return to normal viewing.



STROBE FREEZE(with PIP OFF)

PIP should be in SURF mode. Press the FREEZE button to freeze three frames of the picture you are currently viewing. Press this button again or PIP 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: Each freeze frame is delayed about 0.1 (1/10) second.

USING THE REMOTE TO CONTROL VCR FUNCTIONS



Operating the precoded function for your VCR.

This remote is designed to operate different types of VCRs. You must first program the remote to match the remote system of your VCR. (refer to page 37 for pre-codes)

- 1. Turn ON your VCR.
- 2. Aim the remote control at the front of your VCR.
- 3. Press and release the VCR button to switch to VCR pre-coded mode.
- 4. Hold down the VCR button on the remote and enter the two digit preset code that matches your VCR, as shown on page 37. The indicator light will flash 3 times if the code was accepted.
- Aim the remote at the VCR and press the POWER button. The remote will turn off your VCR when the correct two digit preset code
 is entered. When this occurs, the remote control is programmed for your VCR. If the VCR does not turn off, try a different two digit
 preset code.
- 6. The remote will now control your VCR.

NOTES:

- If your VCR cannot be operated after performing the above procedures, your VCR's code has not been precoded into the remote.
- In the unlikely event that your VCR cannot be operated after performing the above procedures, please consult your VCR operating guide.
- 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.
- The MENU button will act as the VCR MENU button for HITACHI VCRs.
- The LAST CH button will act as your VCR ENTER button if required.
- The SLEEP button will act as your VCR '100' button if required.
- (1) VCR Button

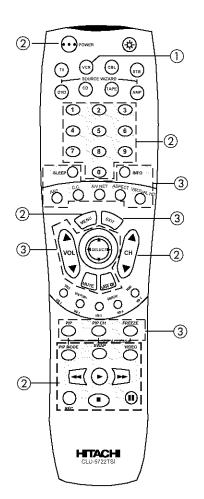
This button allows the remote to control your VCR by setting it to VCR mode.

(2) PRECODED VCR Buttons

These buttons transmit the chosen precoded VCR codes. For some VCRs, you must press the RECORD button twice to record a program.

(3) EXCLUSIVE TV Buttons

These buttons are for operating the TV.



MY VCR CODE IS:

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



USING THE REMOTE TO CONTROL CABLE BOX FUNCTIONS

Operating the precoded function for your cable box.

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 page 37)

- Turn ON your cable box.
- 2. Aim the remote control at the front of your cable box.
- Press and release the Cable (CBL) button to switch to Cable pre-coded mode.
- 4. Hold down the CBL button on the remote and enter the two digit preset code that matches your cable box as shown on page 37. 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 two 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 two digit preset code.
- 6. The remote will now control your Cable box.

NOTES:

- If your cable box cannot be operated after performing the above procedures, your cable box code has not been precoded into the remote.
- In the unlikely event that your cable box cannot be operated after performing the above procedures, please consult your cable box operating guide.
- 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.
- The LAST CH button will act as the cable box ENTER button if required.
- The SLEEP button will act as your cable box '100' button if required.
- The ANT button will act as the TV/STB button when in STB mode.
- 1 CABLE (CBL) button

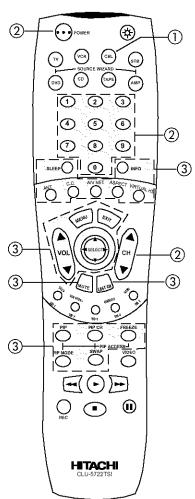
This button allows the remote to control your cable box by setting it to CABLE mode.

(2) PRECODED CABLE BOX buttons

These buttons transmit the chosen precoded cable codes.

(3) EXCLUSIVE TV buttons

These buttons are for operating the TV.



MY CABLE BOX CODE IS:

NOTE: Refer to instruction manual of the Cable Box for operation of the buttons exclusively for the Cable Box.

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 page 37)

- 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. Press and release the SET-TOP-BOX (STB) button to switch to set-top-box/satellite pre-coded mode.
- 4. Hold down the STB button on the remote and enter the two digit preset code that matches your set-top-box/satellite receiver as shown on page 37. 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 two 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 two digit preset code.
- The remote will now control your set-top-box/satellite receiver.

NOTES:

- 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.
- 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.
- 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.
- The ANT button will act as the TV/STB button when in STB mode.
- 1 SET-TOP-BOX (STB) button

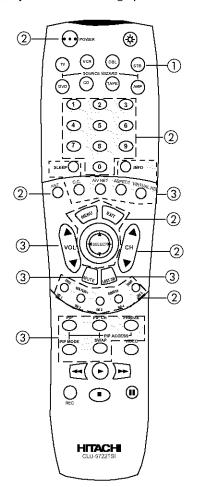
This button allows the remote to control your satellite receiver by setting it to SET-TOP-BOX/SATELLITE mode.

(2) PRECODED SET-TOP-BOX/SATELLITE RECEIVER buttons

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

(3) 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.



USING THE REMOTE TO CONTROL DVD FUNCTIONS

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 page 37 for pre-codes)

- 1. Turn ON your DVD player.
- 2. Aim the remote control at the front of your DVD player.
- Press and release the DVD button to switch to DVD pre-coded mode.
- 4. Hold down the DVD button on the remote and enter the two digit preset code that matches your DVD player, as shown on page 37. 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 two 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 two 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:

- If your DVD player cannot be operated after performing the above procedures, your DVD player's code has not been precoded into the remote.
- In the unlikely event that your DVD player cannot be operated after performing the above procedures, please consult your DVD player operating guide.
- 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) DVD Button

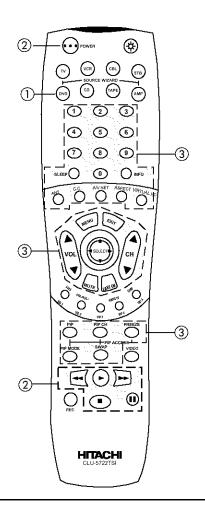
This button allows the remote to control your DVD player by setting it to DVD mode.

(2) PRECODED DVD Buttons

These buttons transmit the chosen precoded DVD codes.

(3) EXCLUSIVE TV Buttons

These buttons are for operating the TV.



MY DVD PLAYER CODE IS:_____

NOTE: Refer to instruction manual of the DVD player for operation of the buttons exclusively for the DVD player.

USING YOUR REMOTE TO CONTROL ADDITIONAL AUDIO EQUIPMENT



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 page 37 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. Press and release the CD, TAPE or AMP button (Audio buttons) to switch to Audio component pre-coded mode.
- 4. Hold down the CD, TAPE or AMP button on the remote and enter the two digit preset code that matches your Audio component, as shown on page 37. 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 two 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 two 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. Be sure to use a different Audio button on the remote, since only one component can be programmed per button.

NOTES:

- If your Audio component cannot be operated after performing the above procedures, your Audio component's code has not been precoded into the remote.
- In the unlikely event that your Audio component cannot be operated after performing the above procedures, please consult your Audio equipment operating guide.
- 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) CD, TAPE, AMP Buttons

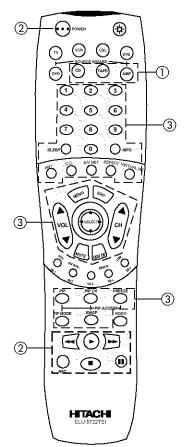
These buttons allow the remote to control your Audio equipment by setting it to Audio mode.

(2) PRECODED AUDIO Buttons

These buttons transmit the chosen precoded Audio component codes.

(3) EXCLUSIVE TV Buttons

These buttons are for operating the TV.

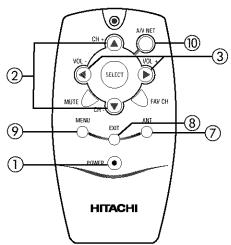


MY AUDIO EQUIPMENT CODE	IS:
CD.	
TAPE.	
AMP/RCVR .	

NOTE: Refer to instruction manual of the Audio equipment for operation of the buttons exclusively for the Audio equipment.

THE SIMPLE REMOTE CONTROL

HITACHI has provided a second remote control for your convenience. The Simple Remote Control has the basic features that are most often used.



1 POWER button

Press Power button to turn the TV set ON or OFF.

- (2) CH+ (▲), CH- (▼)
 Press the CH+ (▲) up or CH- (▼) down buttons to select desired channel or to navigate the on screen display features when in A/V NET mode.
- (3) VOL+ (▲), VOL- (▼)

 Press the VOL+ (▲) up or VOL- (▼) down buttons to select desired sound level or to navigate the on screen display features when in A/V NET mode.
- 4 SELECT button

Press SELECT button to Select when in A/V NET mode.

(5) MUTE button

To reduce the sound to one half of normal volume (SOFT MUTE) to answer the telephone, etc., press the MUTE button. Press the MUTE button again to turn the sound off completely (MUTE). To restore the sound, press the MUTE button one more time, or press the VOLUME Up (**A**) button. (See complete explanation and example on page 26, Item **®**.)

(6) FAV CH button

Press FAV CH button to access OSD function which allows you to group your favorite channels into categories.

(7) ANT button

The ANT button will select between Antenna A and Antenna B each time the button is pressed. (See example on page 23, item ①.)

(8) EXIT button

When in MENU mode, this button will exit all On-Screen Displays.

(9) MENU button

Press the MENU button to start the On-Screen Displays.

(10) A/V NET

Press this button to access the Audio/Video network (A/V Net) menu. The A/V Net allows the user to control external components with the TV's remote control. (See complete explanation and example on page 24, item ③.)

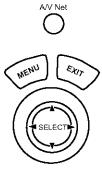
NOTE: The Simple Remote cannot be programmed to control external components.

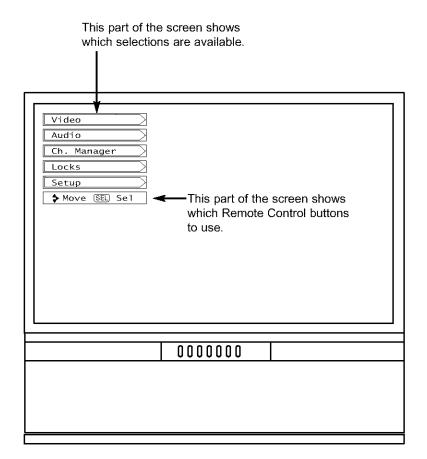
VCR, CABLE, SATELLLITE, DVD and AUDIO/VIDEO CODES FOR REMOTE CONTROL

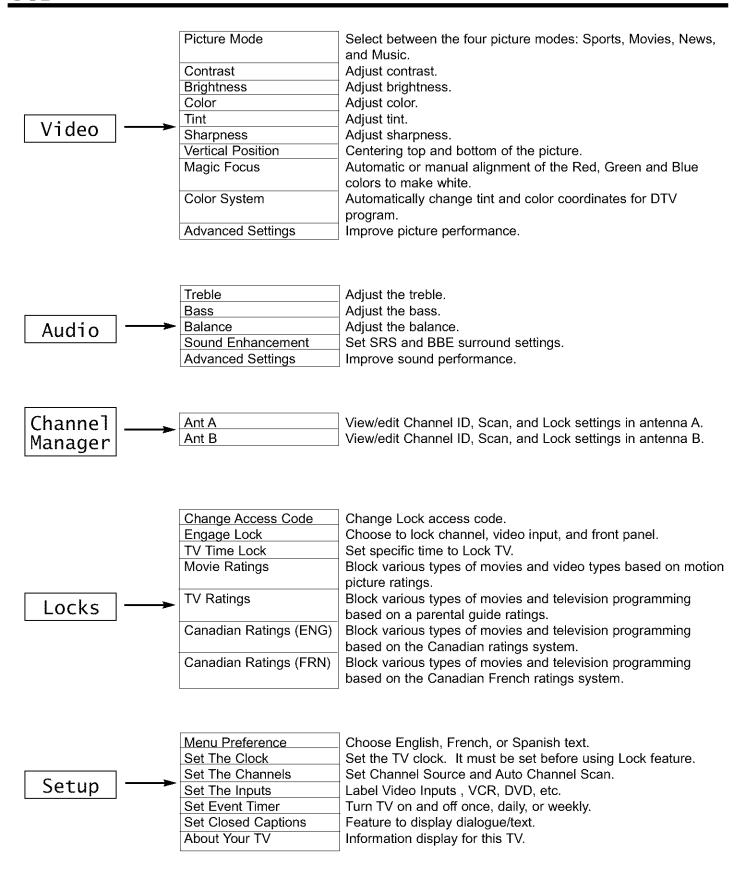


VCD DDAND CODE	Oversion 40	Electric and Cd	AMBUIEED ODAND CODE
VCR BRANDCODE	Quarter	Electricord	AMPLIFIER BRANDCODE
Adventura	Quartz18	Everquest	Aiwa
Aiko	Quasar	Focus	Carver
Aiwa	Radio Shack	Garrard	Denon
Akai	Radix24	GC Electronics	Fisher
American High	Randex	Gemini	Hitachi
Asha	RCA	General Instrument	JVC13
Audiovox	Realistic 01, 18, 19, 20,	Goldstar	Kenwood 14, 15, 17, 18
Beaumark	21, 23, 24, 32, 44	Hamlin 04, 13, 22, 23	Magnavox
Bell & Howell	Ricoh	Hitachi01	Marantz 01, 06, 16
Broksonic	Runco	Hytex	MCS
Calix	Samsung	Jasco	Optimus 03, 04, 11, 15, 20
Canon	Sanky	Jerrold 01, 08, 12, 37, 49, 50, 51	Panasonic
Carver	Sansul	Macom	Philips
CCE	Sanyo	Magnavox	Pioneer 03, 04, 20, 21, 22
Citizen	Scott 16, 17, 33, 34, 36, 41	Memorex	Quasar
Craig	Sears 03, 05, 18, 19,	Movie Time	Sansui06
Curtis Mathes 02, 23, 46		NSC	Sanyo
Cybernex	Sharp	Oak	Sharp
Daewoo	Shintom30	Panasonic	Sony
Dynatech01	Shogun	Paragon	Technics 02, 16, 23, 24, 25
Electrohome	Sony	Phillips	Victor
Electrophonic	STS		Wards 03, 05, 06, 08, 20, 21
Emerex	Sylvania	Pioneer	Yamaha
Emerson 01, 09, 13, 16, 24, 27,	Symphonic	Popular Mechanics	
	• •	•	CD BRANDCODE
	Tatung02	Pulsar	
Fisher	Teac01, 02	RCA	Adcom
Fuji	Technics	Realistic	Aiwa
Funai	Teknika	Recoton	California Audio Lab
Garrard	TMK	Regal	Carver
GE	Toshiba	Regency	Denon04
Goldstar	Totvision		DKK
		Rembrandt01, 38	
Gradiente01	Unitech	Runco	Emerson
Harley Davidson 01	Vector	Samsung	Fisher
Harmon/Kardon	Vector Research	Scientific Atlanta 17, 20, 41, 45	Genexxa
Headquarter	Video Concepts 17, 47	Signal	Hitachi 01, 07, 08, 09, 10, 11, 12
Hi-Q	Videosonic	Signature01	JVC
Hitachi 02, 03, 04, 05	Wards 01, 03, 19, 20, 23,	SL Marx	Kenwood
Jensen		Sprucer	Krell
JVC	XR-1000	Starcom	Magnavox
KEC	Yamaha25	Stargate	Marantz02, 03
Kenwood	Zenith	Starquest	MCS
KLH		Starsight	Mission
Kodak	DVD BRANDCODE	Sylvania	NSM
	Denon		
Lloyd		Teleview	Onkyo
Lloyd's	Hitachi	Texscan	Optimus
LXI	JVC01	Tocom	Panasonic
Magnavox 15, 23, 31, 35	Kenwood04	Toshiba	Philips
Magnin	Magnavox	Tusa	Pioneer
Marantz	Mitsubishi	TV 86	Proton
Marta	Panasonic	Unika	QED
Matsushita23	Phillips		
		United Artists	Quasar
MEI	Pioneer	United Cable	RCA
Memorex	RCA (Proscan)	Universal 11, 24, 31, 32, 34, 39	Realistic
	Samsung	Videoway	Rotel
MGA	Sanyo	Viewstar	SAE
MGN Technology 44	Sony	Zenith	Sansui02
Minolta	Toshiba	Zentek	Scott
Mitsubishi 16, 26, 39, 47, 48	Yamaha08	Editor: Transfer of the Control of t	Sony
		SATELLITE BRAND CODE	
Motorola	Zenith		Technics
MTC 01, 44		Echostar	Victor
Multitech	CABLE BRAND CODE	Hitachi01	
NEC	ABC 01, 07, 08, 17,	Hughes	TAPE BRANDCODE
Nikko		RCA 02	Aiwa
Noblex	Antronix	Sony	Hitachi 01, 02, 03, 04
Olympus	Archer	0	JVC
		SET TOD DOV	
Optimus	Belcor	SET-TOP-BOX CODE	Kenwood06
Panasonic	Cable Star32	Panasonic	Optimus
Penney 03, 23, 24, 25, 44	Century	RCA 07	Pioneer
Pentax03, 04, 05	Citizen	Samsung	Sony
Philco	Colour Voice	~	Wards
Phillips	Comtronics		
Pilot	Contec		
Pioneer	Dae Ryung		
Pulsar	Eastern		

- 1. Press MENU on the remote control to display the different features on your HITACHI Projection TV.
- 2. Press the THUMB STICK to highlight a different feature.
- 3. Press EXIT on the remote control to quickly exit from a menu.
- Press A/V Net on the remote control to access the A/V Net menu to control external components.
- 5. Press THUMB STICK ◀ or ▶ to access Favorite Channels menu.





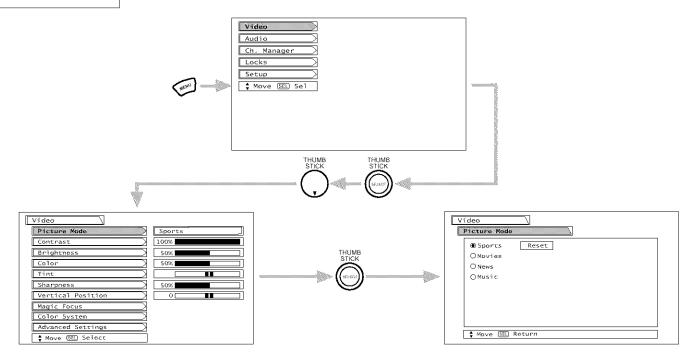


Video

Select VIDEO to adjust picture settings and improve picture quality.

Picture Mode

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



Use THUMB STICK ▲ or ▼ to highlight Picture Mode settings.

When SPORTS mode is selected, the following are automatically set:

CONTRAST - 100%, COLOR TEMPERATURE - HIGH, LOUDNESS - OFF, PERFECT VOLUME - OFF, SURROUND - SRS and BBE.

When MOVIES mode is selected, the following are automatically set:

CONTRAST - 60%, COLOR TEMPERATURE - STANDARD, BASS - 63%, LOUDNESS - OFF, PERFECT VOLUME - OFF, SURROUND - SRS and BBE Mach3Bass.

NOTE: MOVIE MODE 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 MOVIE mode is selected from the Picture Mode menu, your Hitachi Projection Television will activate the circuitry for this special feature to improve video performance when watching film based sources. This 3:2 pulldown detection will only work in MOVIE mode.

When NEWS mode is selected, the following are automatically set:

CONTRAST - 75%, COLOR TEMPERATURE - MEDIUM, LOUDNESS - ON, PERFECT VOLUME - ON.

When MUSIC mode is selected, the following are automatically set:

CONTRAST - 100%, COLOR TEMPERATURE - HIGH, LOUDNESS - OFF, PERFECT VOLUME - OFF, SURROUND - BBE Mach3Bass.

You can customize each of the above modes (SPORTS, MOVIES, NEWS, and MUSIC) to your preference to increase viewing performance and pleasure, depending upon the video program being viewed. However, if RESET is selected, each mode will reset to the initial conditions as explained above.

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

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

VIDEO

Use the THUMB STICK ▲ or ▼ to highlight the function to be adjusted.

Press the THUMB STICK ◀ or ▶ to adjust the function. Press down on THUMB STICK 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.

Contrast

Use this function to change the contrast between black and white levels in the picture. This adjustment will only affect the picture when ADVANCED SETTINGS DIMMER is OFF.

Brightness

Use this function to adjust overall picture brightness.

Color

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

Tint

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

Sharpness

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

Vertical Position

This function allows you to select when aspect style is either 4:3 EXPANDED/ZOOM1/ZOOM2. Vertical position can be changed with this mode. Adjustable range is -10 (video center is toward bottom of screen) to +10 (video center is toward top of screen).

- NOTES: 1. If CONTRAST is selected, you are adjusting CONTRAST. The additional menu items BRIGHTNESS, COLOR, TINT, and SHARPNESS can be selected and adjusted in the same manner.
 - 2. It may be necessary to adjust TINT to obtain optimum picture quality when using the COMPONENT VIDEO Y-P_RP_R input jacks.
 - 3. If you are using the COMPONENT VIDEO input jacks (Y-PBPR) and notice that the TINT and COLOR are abnormal, check to make sure that Picture Formats - Component Color Type is set properly.

Magic Focus

Auto Digital Convergence Adjustment

Please turn ON your television for at least 20 minutes before using this feature.

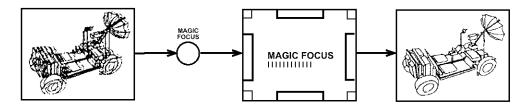
Your HITACHI Projection TV has three color projection tubes: one for red, one for green, one for blue. When mixed together in the proper proportion, the output of these three color tubes can produce any color. To produce these colors, however, the beams must be precisely aligned over each other so that the colors can be mixed. The process of aligning these picture beams is called "convergence".

Over a period of time, the picture tubes can drift out of alignment due to normal bumps and vibrations or moving the TV. If you move your TV, or if, after a time, you notice color rings or halos around objects in the picture, you may want to converge (align) the colors.

Properly converged, the lines appear white, which is actually a combination of the outputs of the three color tubes. The output of the green tube is stationary. The outputs of the red and blue tubes can be adjusted. When properly aligned, the outputs of all three tubes should be directly over each other to produce the white lines.

To simplify convergence, HITACHI incorporates a function called MAGIC FOCUS located on the front control panel, which allows the TV to self-adjust. Press this MAGIC FOCUS button and the convergence self adjustment will start and this process will take approximately 20 seconds. If this button is pressed during this process, no change in picture quality will occur. After this 20 second self-adjust period, picture quality will be optimum. (Do not move the TV during self-adjust.)

You may also select MAGIC FOCUS from the Video Menu.



NOTES: Only a momentary press of the MAGIC FOCUS button is necessary to start AUTO DIGITAL CONVERGENCE. At any time during this convergence correction process, you may press the MAGIC FOCUS button to exit the MAGIC FOCUS mode. However, the convergence correction process needs to be completed to SAVE the new corrected convergence data.

Manual Convergence Adjustment Mode

NOTES: 1. Please turn ON your television for at least 20 minutes before using this feature.

Auto Adjustment Mode is recommended. If convergence is still not acceptable, use the Manual Adjustment Mode.
 DO NOT press MAGIC FOCUS or use Auto Adjustment Mode after using Manual Adjustment Mode.

Using the Remote Control, select VIDEO-MAGIC FOCUS-MANUAL ADJUSTMENT MODE to access convergence crosshatch pattern. The adjustment point is indicated by the Adjustment Point Cursor.

To Move Adjustment Point

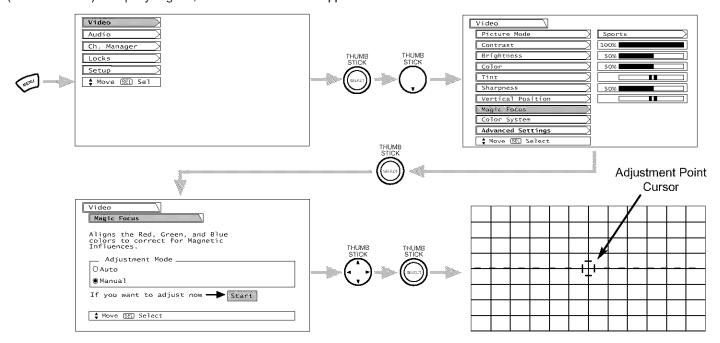
To move adjustment point, the Adjustment Cursor must be WHITE. Use the THUMB STICK to move the Adjustment Cursor. Another way to move the Adjustment Point Cursor is to press the following buttons: [2] up, [4] left, [5] down, [6] right. If you use the number buttons while the adjustment point is WHITE, it will change to RED.

To Change the Color of Adjustment Point

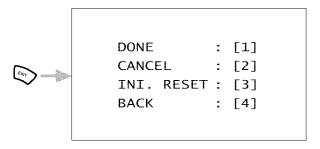
Press the SELECT button repeatedly (WHITE-RED-BLUE-WHITE...). Green color is fixed and cannot be adjusted.

To Adjust the Convergence

Move the Adjustment Cursor to the point to be adjusted. Use the THUMB STICK to match the RED and BLUE colors to GREEN (reference color). Properly aligned, all three colors should appear white.



If convergence is acceptable after Manual Convergence adjustment, press EXIT button to access menu mode.



Press the [1] button on the remote control to SAVE adjusted data and return to main picture.

Press the [2] button on the remote control to CANCEL adjusted data and return to main picture.

Press the [3] button on the remote control to recall the factory pre-set convergence data.

Press the [4] button on the remote control to return to the manual convergence adjustment mode (crosshatch pattern).

Press the [9] button on the remote control to read the SAVED data.

Color System

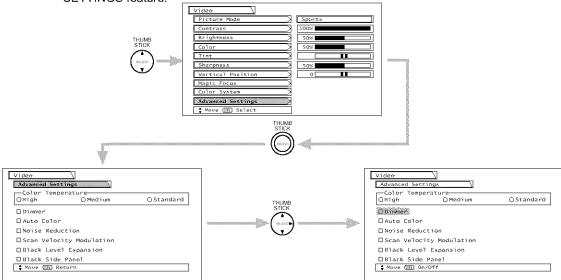
This function allows you to automatically change tint and color coordinates for DTV programs. HDTV - High Definition Television - Use for High Vision Signal Y-P_RP_R from HDTV Set-Top Box. SDTV/DVD - Standard Definition Television or DVD (Digital Versatile Disc Player) Y-CBCR.

- NOTES: 1. If Color System is set improperly (does not match actual input signal), the color and tint of the main picture will be
 - 2. You must be tuned to VIDEO: 1 or 2 inputs and have a component hooked up to the Y-P_RP_R input jacks to access this color system.
 - 3. All component color type settings will affect only color component input you are currently viewing. If you are using both sets of component input jacks, be sure to set the color system feature for both inputs.

Advanced Settings

Your HITACHI Projection TV has an ADVANCE SETTINGS function which will automatically adjust picture settings to produce the highest quality picture possible.

When ADVANCED SETTINGS is highlighted, press down on THUMB STICK to access an ADVANCED SETTINGS feature.



Use THUMB STICK to highlight functions.

Press down on THUMB STICK to select the function setting. When the function has an "✓" in the box, it is ON.

Press down on THUMB STICK to change COLOR TEMPERATURE setting. When the function shows a "o", it is selected. Press EXIT to quit menu.

Color Temperature

Set this to High for cooler color with more blue (9,300K for 32HDT20, 9,200K for 42HDT20), set to Medium for more natural color (7,500K), or set to Standard for accurate color (6,500K).

Dimmer

Turn ON the Dimmer to reduce picture contrast and brightness automatically when viewing in a dark room.

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.

Noise Reduction

The NOISE REDUCTION function automatically reduces conspicuous noise in the picture without degrading picture quality.

Scan Velocity Modulation

The Scan Velocity Modulation function automatically enhances the edges between light and dark areas.

Black Level Expansion

The BLACK LEVEL EXPANSION function automatically enhances shadow detail in dark scenes.

Black Side Panel

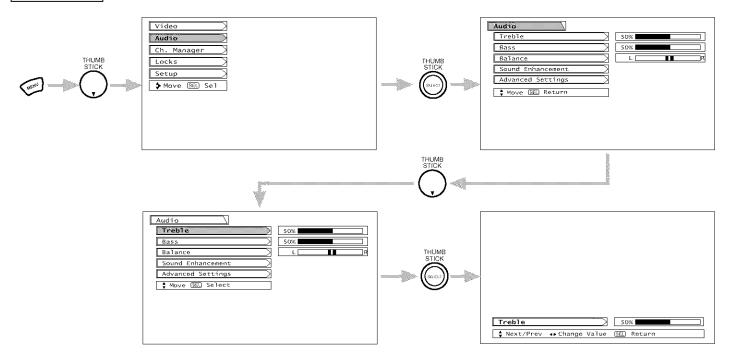
The BLACK SIDE PANEL function turns the gray side bars on/off when watching 4:3 signals in Standard mode.

The top/bottom gray bar will appear in SPLIT MODE PIP and SPLIT FREEZE.

NOTE: To prevent pattern burn when watching 4:3 signal, Black Side Panel is cancelled at Power OFF. It is recommended to watch 4:3 signal with gray side bar.

Audio

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



Use THUMB STICK to highlight functions.

Press down on THUMB STICK to select the function setting.

Press THUMB STICK ◀ or ▶ to adjust the function.

Press EXIT to quit 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.

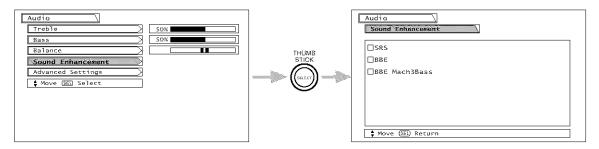
Treble This function controls the high frequency audio to all speakers.

Bass This function controls the low frequency audio to all speakers.

Balance This function will control the left to right balance of the TV internal speakers and the AUDIO TO HI-FI output.

Sound Enhancement

The following surround settings will reproduce the "live" sound you would hear in concert halls, sports stadiums, movie theaters, etc. with only two speakers.



To enter SOUND ENHANCEMENT, use THUMB STICK ▲ or ▼ to highlight then press down on THUMB STICK to select SOUND ENHANCEMENT of your choice.

Use the THUMB STICK to highlight your sound enhancement choice, and press SELECT to select your choice.



Based on the principles of the human hearing system, SRS technology delivers and exciting and realistic 3D Sound experience from just two external speakers (or) the two internal speakers of your HITACHI Television. If your HITACHI Television is connected to an external audio system, SRS will also create an incredible 3D sound experience from two speakers and even enhance a complete multi-speaker surround sound system.

NOTES: *SRS and the symbol are registered trademarks of SRS Labs, Inc. iSRS technology is incorporated under license from SRS Labs, Inc.

REE Technology

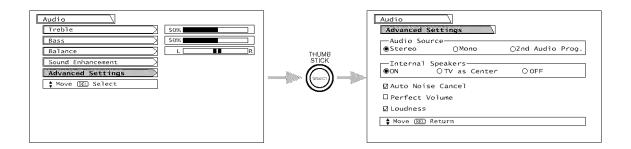
Sound reproduction quality enhancement system. The BBE technology produces sound that is natural and crisp from just two speakers (or) the two internal speakers of your HITACHI television. If your HITACHI television is connected to an external audio system, BBE will also create an incredible crisp sound experience from two speakers and even more complete and accurate reproduction of the original performance. 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.

RRE Mach3Bass

BBE Mach3Bass provides rich and natural bass sound.

NOTES: Licensed by BBE Sound, Inc. under USP4638258 and 4482866. BBE, BBE Mach3Bass and BBE symbol are registered trademarks of BBE Sound, Inc. Manufactured under license from BBE Sound, Inc.

Advanced Settings Use ADVANCED SETTINGS to improve the sound performance of your TV, depending on listening conditions.

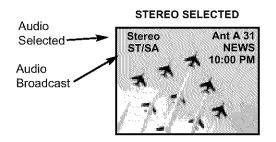


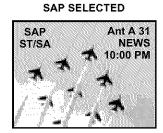
Press THUMB STICK ▲ or ▼ to highlight a function. Press down on THUMB STICK to select the function setting. When the function has a "✓" in the box it is ON.

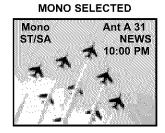
2nd Audio Program

Multi-Channel Television Sound will allow you to select STEREO (a stereo broadcast), MONO (monaural sound) used when receiving a weak stereo broadcast or SAP (second audio program) which may be a secondary language, weather report, etc.

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







INTERNAL 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 (see page 13).

OFF - Select this feature is 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

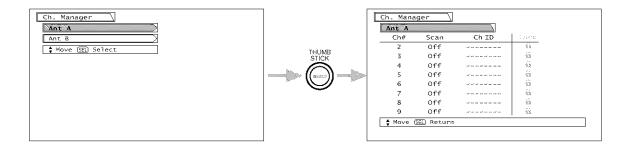
This function will automatically adjust volume so each channel has the same average volume level.

LOUDNESS

This function will improve the quality of both low and high frequency sounds when listening at low volume levels.

Channel Manager

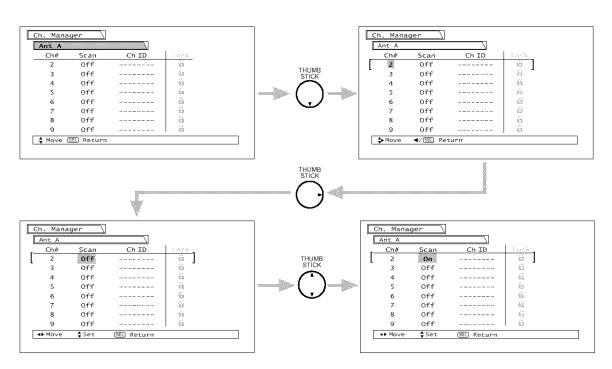
This function allows you to review which channels are labeled (CH ID), which have been added to Channel Memory (SCAN), and which are protected by LOCK.



Press THUMB STICK ▲ or ▼ to review more channels. Press EXIT to quit menu.

Scan

Use this feature after Auto Channel Scan is completed to add (On) or erase (Off) additional channels to the remote control channel ▲ or ▼ buttons.



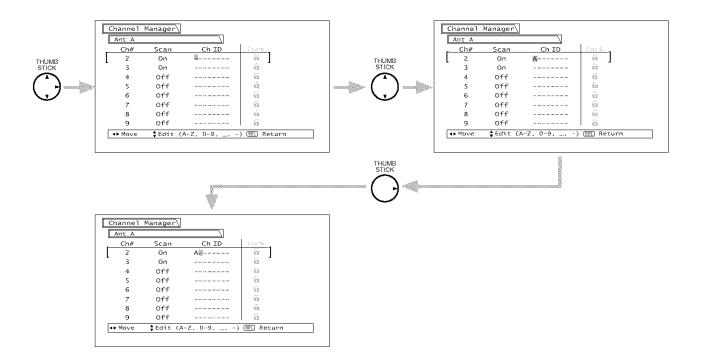
To add (Scan-On) or erase (Scan-Off) additional channels while in Channel Manager, THUMB STICK ◀ to highlight the channel number, then THUMB STICK ▲ or ▼ to highlight other channels. Once the desired channel is highlighted, THUMB STICK ▶ to scan column, then THUMB STICK ▲ or ▼ to select ON or OFF.

NOTE: Lock feature can not be selected or set in CHANNEL MANAGER.

CHANNEL MANAGER

Channel ID

This selection contains advanced features which will make TV viewing easier and more enjoyable. Use this feature to give up to 20 channels a name when ANTENNA signal source is selected and up to 60 channels a name when CATV signal source is selected.



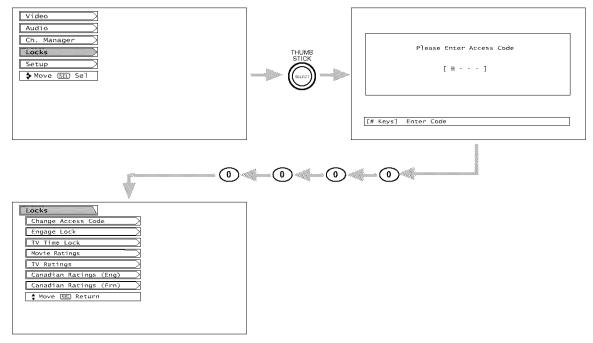
NOTES:

- 1. If ANT A and ANT B are in the same ANTENNA/CABLE mode, the CHANNEL ID for both antenna inputs will be the same.
- 2. CHANNEL ID will be displayed only when channel is displayed as main picture.

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 secret code number. The factory preset code is 0000. Use the number buttons to select access code.



Use THUMB STICK ▲ or ▼ to highlight function and then press SELECT button.

To change the access code number, select Change Access Code. Enter a new four digit key number you prefer.

Select CHANGE ACCESS CODE to change 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 (☐ TIME LOCK) you can set the BEGIN and END times (THUMB STICK ►) and the TV cannot be viewed during that time period (Set clock first). Use CURSOR ▲ or ▼ to highlight ONCE (TV will time out one time only), DAILY (TV will time out every day), WEEKLY - SUN~WEEKLY - MON (TV will time out one time a week) or OFF (to disable this function).

When MOVIE RATINGS is selected, you can block various types of movies and video tapes based on motion picture ratings. Picture-in-Picture will also be blocked automatically (see page 51).

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 52).

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 53-54).

If you forget your secret code, use the factory code 7777 to erase your key number. This will reset the secret code number back to the factory preset 0000.

Press EXIT to quit the menu.

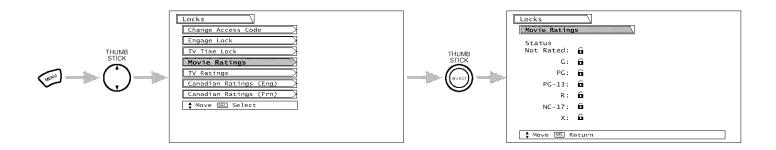
NOTE:

- 1. If ANT A and ANT B are in the same signal source mode (see page 48), when a channel is locked, it is locked on both antenna inputs.
- 2. When using TIME LOCK make sure the clock is set (see page 56).
- 3. Text appears on the screen to indicate that TV TIMED LOCK is activated.
- 4. If MOVIE/TV Ratings Lock and Closed Caption settings are ON, PIP SURF mode will be deactivated.

LOCKS

Movie Ratings

Use MOVIE RATINGS to eliminate from viewing, any movie that you feel may be inappropriate due to its content.



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

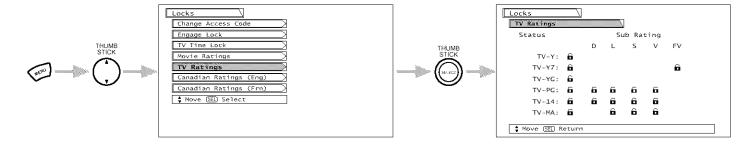
Press EXIT to quit menu or select MOVIE RATING to return to the previous menu.

Motion Picture Ratings Chart

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

TV Ratings

Use TV RATINGS to eliminate from viewing any TV program that you feel may be inappropriate due to its content.



Use THUMB STICK ▲ or ▼ to highlight the category that you want to block.

Press select to block the TV RATING that you have selected.

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

TV Parental Guide Ratings Chart

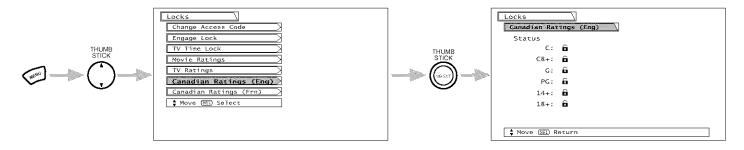
TV-Y	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
TV-Y7	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age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

NOTE:

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.

Canadian Ratings (Eng)

Use Canadian Ratings (Eng) to block various types of movies and television programs used in Canada that you feel may be inappropriate due to its content.



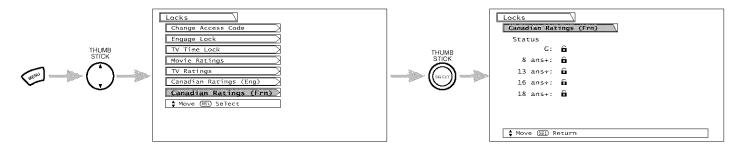
Use THUMB STICK ▲ or ▼ to select the CANADIAN RATINGS (Eng) category that you want to block. Press SELECT to set the CANADIAN RATINGS (Eng) that you have selected. Once rating is selected, for example C8+, all movies and television programs rated C8+ and higher (G, PG, 14+ and 18+) will be blocked automatically.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

Canadian Ratings English Chart

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



Use THUMB STICK ▲ 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 THUMB STICK ◀ to return to the previous menu.

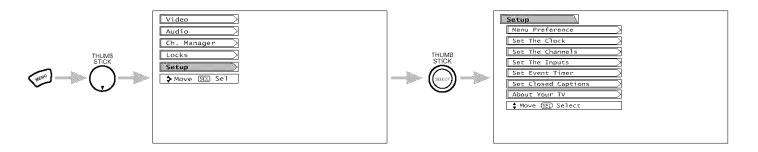
Canadian Ratings French Chart

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

SETUP

Setup

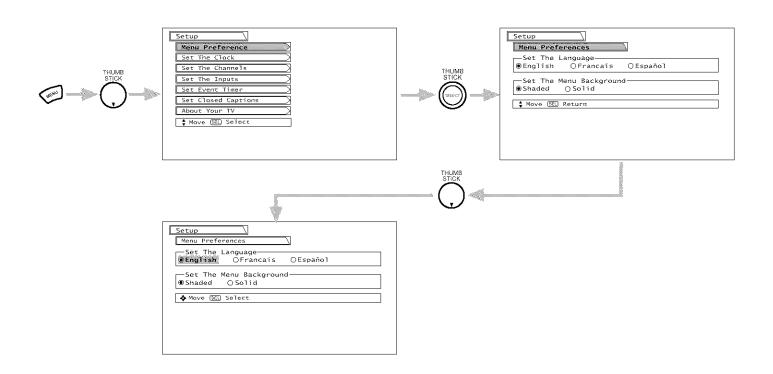
Select SETUP when setting your TV up for the first time. Use the THUMB STICK ▲ or ▼ on the remote to highlight the function desired.



Use THUMB STICK ▲ or ▼ to select the sub-menu of your choice.

Menu Preference

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



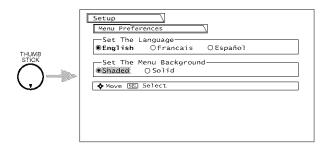
Use THUMB STICK ◀, ▶ to highlight the language of your choice.

Press SELECT to select the highlighted language.

Press EXIT to quit menu or select MENU PREFERENCE to return to previous menu.

Set The Menu Background

This function allows you to choose from two menu backgrounds.



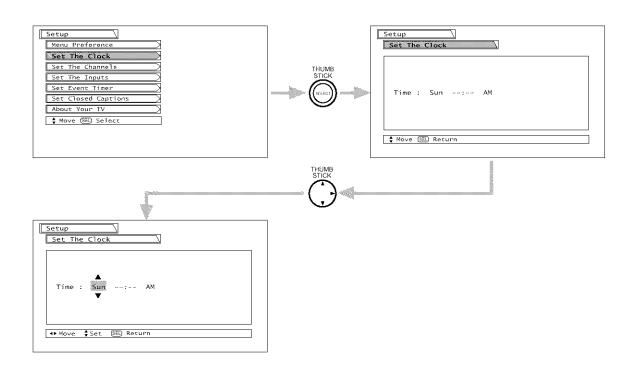
Use THUMB STICK ◀ , ▶ to highlight SET THE MENU BACKGROUND (shaded or solid), and press down on THUMB STICK to select setting.

Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

Select SOLID and a black background is visible (no picture can be seen behind menu screen), select SHADED and a light background is visible.

Set The Clock

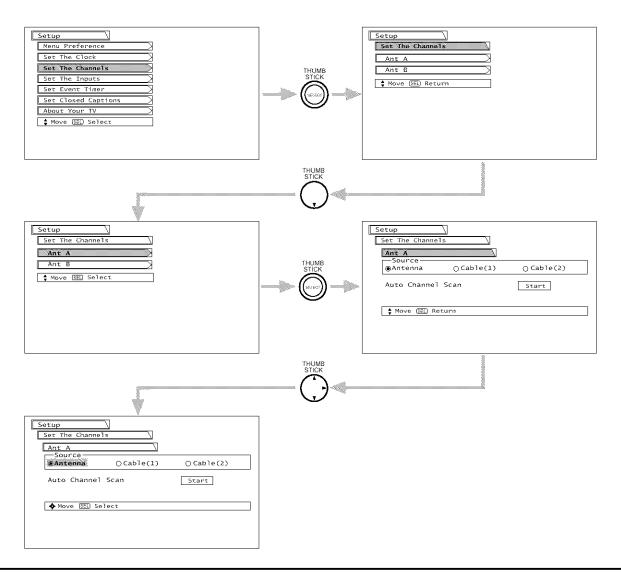
The time must be set before you can Set Event Timer or TV Time Out.



Use THUMB STICK \blacktriangle or \blacktriangledown to set the time and date. Press THUMB STICK \blacktriangleleft or \blacktriangleright to change position. Press EXIT to quit menu.

Set The Channels

Select ANTENNA if you are using an indoor or outdoor antenna. Select Cable if you have cable TV.



NOTE: If certain CATV channels are poor or not possible in Cable (1) mode, select Cable (2).

Use THUMB STICK ◀, ▶ to highlight the correct signal mode. Press down on THUMB STICK to select highlighted signal.

Press EXIT to quit MENU or select ANT A to return to previous menu.

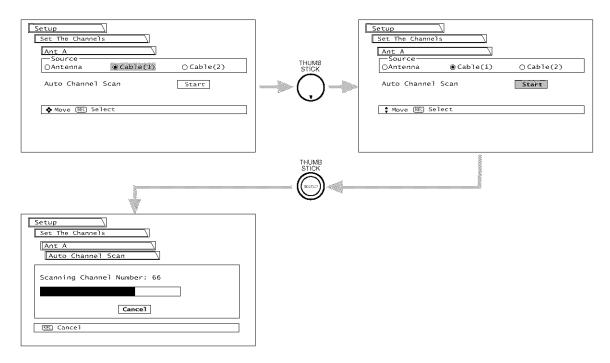
RECEPTION BAND			
	CATV 1 OR CATV 2		
AIR	CATV CHANNEL	Indicated on	
		the screen	
	VHF 2~13	2 ~ 13	
	Mid band A~1	14 ~ 22	
VHF 2 ~ 13ch	A-5 ~ A-1	95 ~ 99	
UHF 14 ~ 69ch	Super band J~W	23 ~ 36	
	Hyper band	37 ~ 64	
	W + 1 ~ W + 28		
	Ultraband W + 29 ~ W + 84	65 ~ 125	

Reception channels for each mode are shown at the left.

Refer to your cable or TV guide for channel identification standards.

Auto Channel Scan

This feature will automatically store active TV channels in Auto Channel Scan. This will allow you to skip unused channels when using CHANNEL UP (\blacktriangle) or DOWN (\blacktriangledown).

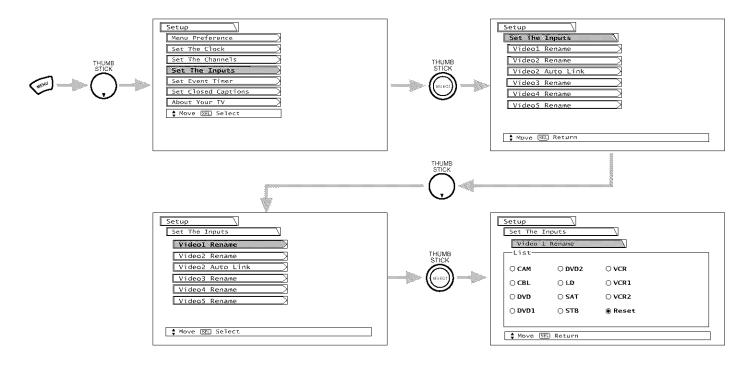


If the EXIT button is pressed while AUTO CHANNEL SCAN function is engaged, programming will stop. If two antenna are connected, switch antenna inputs with the Ant button and repeat AUTO CHANNEL SCAN for the second antenna input.

Remember to select the correct ANTENNA/CABLE mode before using AUTO CHANNEL SCAN. See CHANNEL MANAGER - SCAN to add or to erase additional channels.

Set The Inputs

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

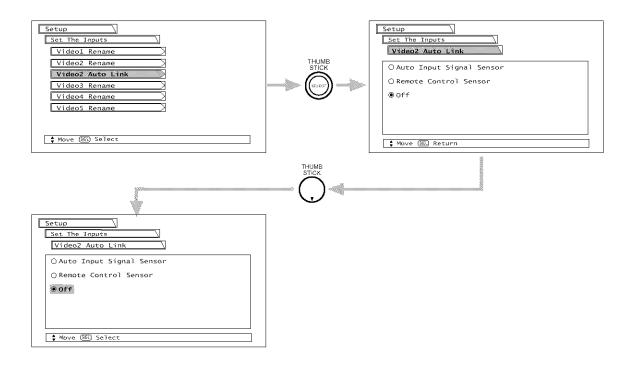


Press THUMB STICK \blacktriangle , \blacktriangledown , \blacktriangleleft , \blacktriangleright , to highlight the name of the video inputs. Press down on THUMB STICK to select desired input name.

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 THUMB STICK ▲ or ▼, then press down on THUMB STICK to change AUTO LINK setting.

When AUTO INPUT SIGNAL SENSOR 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 CONTROL SENSOR 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.

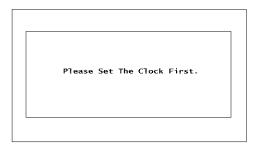
NOTES: 1.

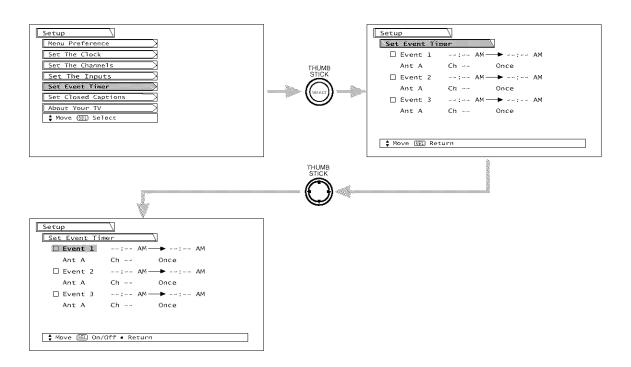
- Once the TV has been turned on using the AUTO LINK feature, it must be reset before AUTO LINK is used again. To
 do this, turn your VCR, laserdisc, or DVD player OFF. This feature is now reset and will turn on your TV as described
 above.
- 2. When using REMOTE CONTROL SENSOR mode, any remote control button will substitute for your video input device play button. However, intended operation is for use with your VCR, laserdisc, or DVD play button.
- 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 Event Timer

This function will automatically turn the Projection TV on and off, one time only, every day, or once a week.

If the clock is not set (see page 56), you can not use this function and the screen below will appear.





Use THUMB STICK ▼ to select Event 1, 2 or 3.

Use THUMB STICK ▶ to change position of On time, Off time, Antenna, Channel, and On/Off Frequency.

Use THUMB STICK ▲ or ▼ to select the time the TV will turn on and off.

Use THUMB STICK ▲ or ▼ to select the day of the week you want the timer to turn on TV.

Use number buttons to set the channel the TV will tune to when it automatically turns on.

Use THUMB STICK ▲ or ▼ to select mode Once (TV will turn on/off one time only), Daily (TV will turn on/off at the same time every day), or Weekly-SUN (TV will turn on/off at same time every week).

Press EXIT to quit the menu.

NOTE:

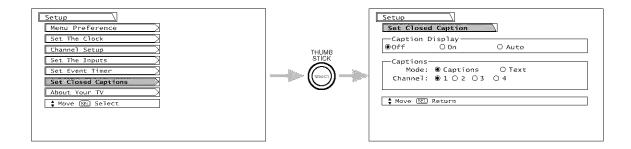
- 1. The Off Timer will only activate if the TV was turned on by the On Timer and no channel selection was made after this time. If you change the channel after the On Timer has been activated, the Off Timer will deactivate.
- 2. If no remote control button is pressed after Event Timer is activated, 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 send a Remote Control I/R to your TV.



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.

Closed Caption

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



Caption Disply: 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).

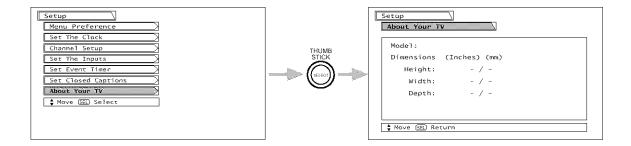
Use THUMB STICK ▲, ▼ to highlight the function to change then press THUMB STICK to change the function. Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

NOTE:

- 1. CAPTION DISPLAY will not work when viewing a 480p, 720p, or 1080i input via the COMPONENT: Y-P_BP_R inputs.
- 2. When PIP Surf is on, Closed Caption will not work.

About Your TV

The TV model name and set dimensions will be displayed on the TV screen.



CARE OF YOUR HITACHI TELEVISION AND YOUR REMOTE CONTROL



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 or the Simple 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" or "AAA" size batteries. 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.

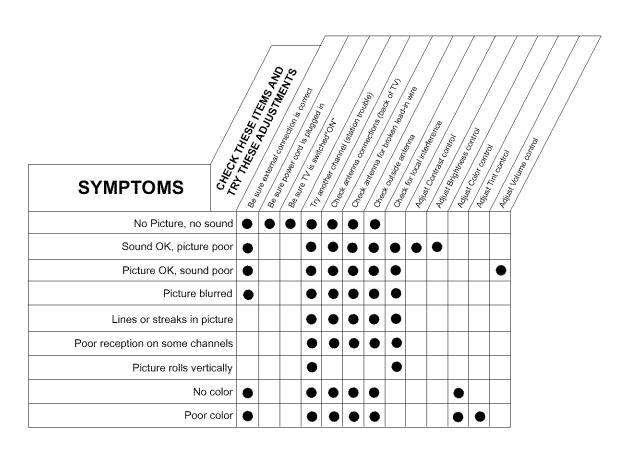




IGNITION NOISE: Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, electrical drills, and other electrical appliances.
GHOSTS: Ghosts are caused by the television signal following two paths. One is the 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 Display can generate sound distortion in external devices such as a radio. Please separate radio equipment from the Display to a considerable distance.





HITACHI Projection Television 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 Projection Television.



Features:

- Superfine Picture Quality
 1280 Line Horizontal Resolution
- Remote (Controls many VCR brands, cable boxes, satellite boxes, and other audio equipment.)
- · Extra Simple Remote for easy basic operations.
- · High Definition On-Screen Display
- New A/V Network System Control
 - Control up to 4 components with one remote. (2 IR Mouse cables included.)
- Full Set of Input Jacks, including S-VIDEO
- COMPONENT VIDEO: Y-P_B/P_R
- · Velocity Modulation
- · Closed Caption Decoder
- · 2-Tuner Picture in Picture
- Magic Focus (Auto Digital Convergence and Manual Adjustment)
- · Dual Antenna Inputs
- · Video Input Sensor
- 3 Dimensional Y/C Comb Filter
- Full 1080i HDTV capable when used with a Set-Top Box.
- · High bandwidth Digital Content Protection V1.0 compatible.
- Technology.
- BBE Mach3Bass Technology.
- Technology.

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Inputs:

	Stand-by Power
	Power Consumption
	- Refer to rear panel at the back of the T.V.
	Antenna input impedance
	Channel coverage
	VHF-Band
	UHF-Band
	CATV Mid Band
	Super BandJ-W
	Hyper Band
	Ultra Band
•	Video1.0Vp-p, 75 Ohm
•	S-Video
	Luminance (Y)1.0Vp-p, 75 Ohm
	Chrominance (C)0.286Vp-p, 75 Ohm
•	Component Video
	Luminance (Y)
	Chrominance (P _B /P _R) 0.7Vp-p, 75 Ohm
•	Audio input Impedence
•	Average input level
•	DVI - HDTVDVI 25pin
_	
Οι	ıtputs:

Dimensions:

		51SWX20B	57SWX20B 57TWX20B	65SWX20B 65TWX20B
٠	Height (in.)	50 1/8	54 3/16	59 7/8
•	Width (in.)	48 12/16	54	61
•	Depth (in.)	25 1/16	25 8/16	28
•	Weight (lbs.)	238	265	319

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

66



HITACHI



Hitachi America, LTD. Home Electronics Division

Hitachi has made every effort to assure you hours of trouble free operation from your unit. However, should you require service, a network of Hitachi Authorized Service Facilities has been established in all 50 states and Puerto Rico. Each facility will provide you with convenient and expedient assistance. Our service hotline operator will direct you to the Hitachi Authorized Service Facility nearest you. Just present proof of purchase and/or delivery receipts to the Hitachi Authorized Service Facility, and service will be rendered in accordance with the terms of the limited warranty as stated on your warranty card or operating guide.

Should you have any questions regarding warranty, service, operation, or technical assistance, please contact:

Hitachi America, LTD. Home Electronics Division 1855 Dornoch Court San Diego, CA 92154



Hitachi Canada, LTD. Digital Media Division

Should you have any questions regarding warranty, service, operation, or technical assistance, please contact:

In Canada: 1-800-HITACHI (1-800-448-2244)

Monday - Friday EST 9:00am - 7:00pm Saturday EST 9:00am - 5:00pm

Look for your French Manual on the outside of the box. If the manual is missing, call

1-800-HITACHI (1-800-448-2244)

for a copy.

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

Au Canada: 1-800-HITACHI (1-800-448-2244)

Lundi - Vendredi L'EST 9:00am - 7:00pm Samedi L'EST 9:00am - 5:00pm

La version française de votre manual se trouve à l'extérieur de la boîte. Si le manuel est manquant, coposez le

> 1-800-HITACHI (1-800-448-2244)

pour obenir votre copie.

HITACHI CANADA, LTD. 6740 Campobello Road Mississauga, ON L5N 2L8







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