

COMBINATION PROJECTION COLOR TV AND DVD PLAYER

46W500

OPERATING GUIDE

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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 television.

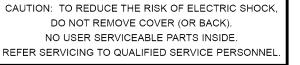


CAUTION

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

- WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS TELEVISION TO RAIN OR MOISTURE.
 - THE TELEVISION SHOULD NOT BE EXPOSED TO DRIPPING OR SPLASHING AND NO OBJECTS FILLED WITH LIQUIDS. SUCH AS VASES. SHOULD BE PLACED ON THE TELEVISION.

NOTE:

- There are no user serviceable parts inside the television.
- Model and serial numbers are indicated on back side of the television.

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

MODIFICATIONS:

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

POWER SOURCE

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

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

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



This television has a built-in DVD player that employs a laser. Only a qualified service person should attempt to service this device, due to possible eye injury.

CAUTION: • Do not stare into laser beam.

· Use of controls or adjustments or performance of procedures other than those specified herein may result in exposure to hazardous visible and invisible laser radiation.

LOCATION: Inside the deck mechanism.

This television receiver will display television closed captioning, (CC or), in accordance with NOTE: 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.
- 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.
- Only use the attachments/accessories specified by the manufacturer.

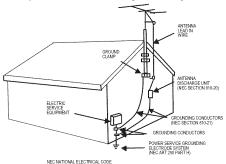


Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

- 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 injury.
- 16. Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
- 17. An outdoor antenna should not be located in the vicinity of overhead power lines or other electrical circuits.
- 18. If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding for the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode.



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

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.

PREVENTION OF SCREEN BURN

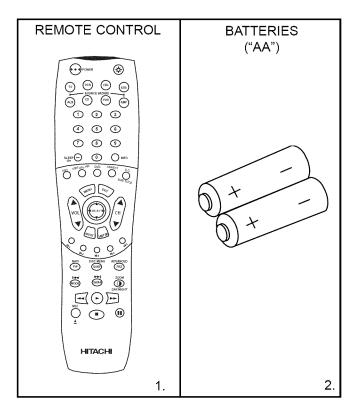
This Wide Screen TV is designed to display wide screen pictures. Images should be viewed mostly in wide screen format or zoomed to fill the screen with moving pictures. Use of side panels, top and bottom panels of standard picture formats should only be 15% of your total viewing time to prevent uneven aging of the phosphors. Phosphors in the lighted area of the picture will age more rapidly than the gray areas. 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.

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.
- Unauthorized copying, broadcasting, public performance and lending of discs are prohibited. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation.



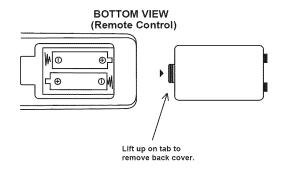
Check to make sure you have the following accessories before disposing of the packing material.



- 1. Remote Control Unit CLU-5727TSI (Part No. HL01827).
- 2. Two "AA" size, 1.5V batteries (For Remote Control Unit).

REMOTE CONTROL BATTERY INSTALLATION AND REPLACEMENT

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



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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 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.

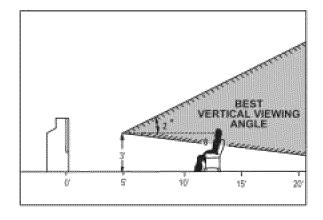
VIEWING

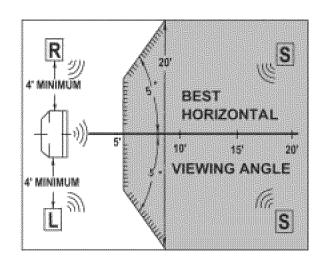
The major benefit of the HITACHI Projection Television is its large viewing screen. To see this large screen at its best, test various locations in the room to find the optimum spot for viewing.

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.



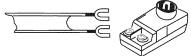


CAUTION: Magnetic fields, such as those of external speakers, may cause the picture to distort if they are placed too close to the television. Move the magnetic field source away from the television until there is no picture distortion.

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 television's rear jack panel and front control panel.



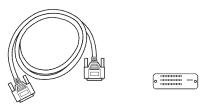
"F" Type 75-Ohm Coaxial Antenna Connector

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



S-Video (Super Video) Connector

This connector is used on camcorders, VCRs and 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 Cable

This cable is used to connect external devices with DVI-HDTV output capability.



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

ANTENNA CONNECTIONS TO REAR JACK PANEL

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

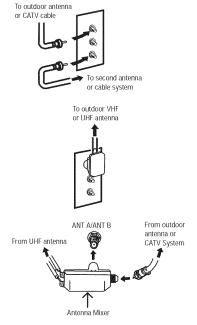
When using a 75-Ohm coaxial cable system, connect the outdoor antenna or CATV coaxial cable to the ANT A (75-Ohm) terminal. If you have a second antenna or cable TV system, connect the coaxial cable to the ANT B terminal.

VHF (300-Ohm) antenna/UHF antenna

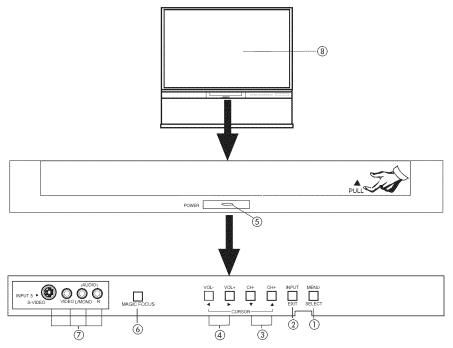
When using a 300-Ohm twin lead from an outdoor antenna, connect the VHF or UHF antenna leads to screws of the VHF or UHF adapter. Plug the adapter into the antenna terminal on the TV.

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 26).

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

(5) 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 56).

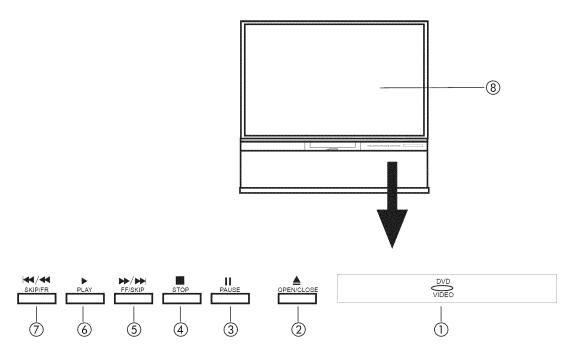
(7) FRONT INPUT JACKS (INPUT 5)

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/EXIT button on the front control panel until VIDEO: 5 appears in the top right corner of the TV screen. If you have mono sound, insert the audio cable into the left audio jack.

(8) IR RECEIVER

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





(1) DISC LOADING TRAY

Opens and Closes for disc loading.

(2) OPEN/CLOSE button

Press this button to open/close the disc loading tray.

(3) PAUSE/STEP button

Press this button to pause playback. Press the button again to advance the disc by one frame. The disc advances one frame at a time with each subsequant press of this button.

(4) STOP button

Press this button to stop playback.

(5) FF/SKIP (FORWARD/SKIP) button

Press this button to move to the next Chapter/Track.

(6) PLAY button

Press this button to start playback.

(7) SKIP/FR (REVERSE/SKIP) button

Press this button to go back to the beginning of the current Chapter/Track.

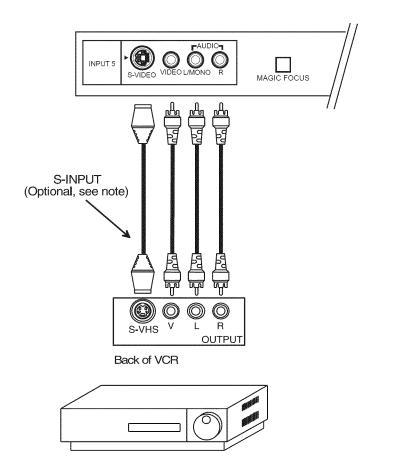
(8) IR RECEIVER

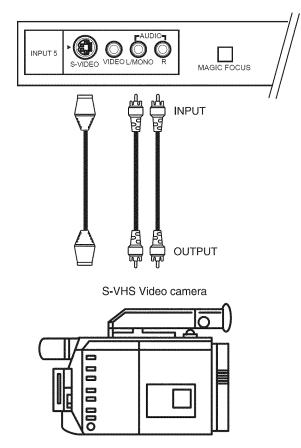
The screen area acts as the IR receiver (remote sensor) of the TV. When using the remote control, point it towards the screen for best response.



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:

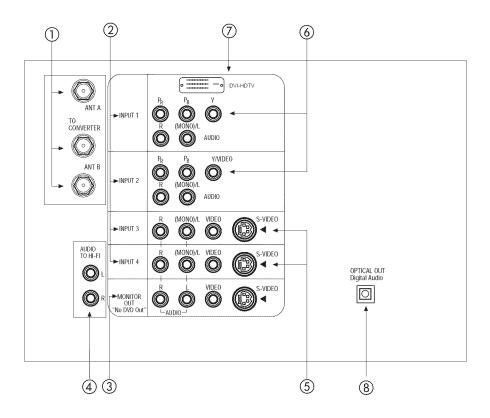




NOTE:

- 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.

NOTES: 1. S-VIDEO Output may be used for recording, only when the input is of S-VIDEO type.

2. When in DVD mode, MONITOR OUT will not be available.

(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) S-VIDEO Inputs 3 and 4

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



(6) Component: 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 composite video signal for INPUT:2.

NOTES:

- 1. Do not connect composite VIDEO and S-VIDEO to Input 3, 4 or 5 at the same time. S-VIDEO has priority over VIDEO input.
- 2. Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's P_B input and the components R-Y output to the TV's P_B input.
- 3. Your component outputs may be labeled Y-C $_B$ C $_B$. 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 40).
- 5. To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR jacks.
- 6. Input 2 (Y/VIDEO) can be used for composite video and component video input.

(7) DVI-HDTV Input (Input 1)

Use this DVI-HDTV Input for your external devices with DVI-HDTV output such as a Set-Top-Box, high-band DTV decoders, DVD players and D-VHS with Digital Content Protection.

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 when used with a DVD player from a personal computer.
- 3. 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.

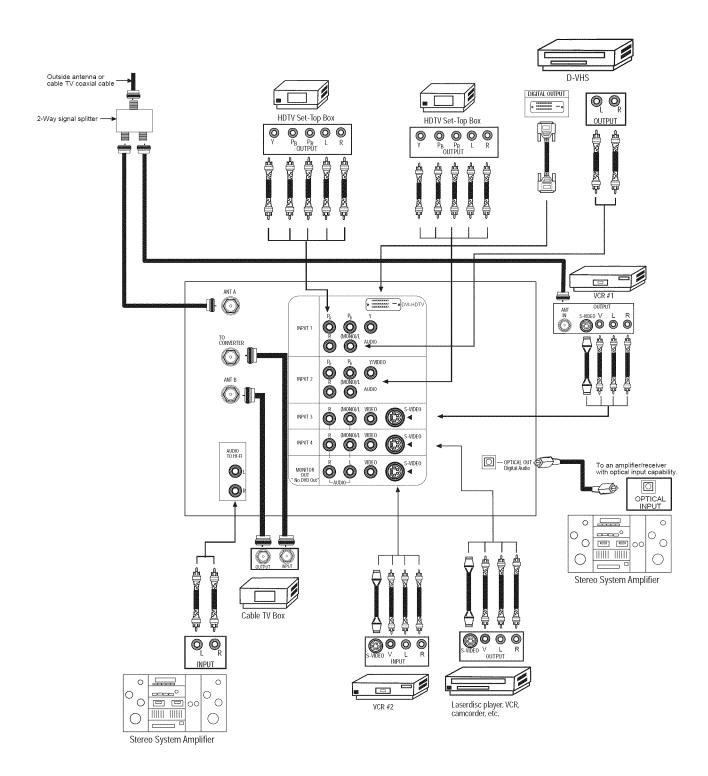
(8) OPTICAL OUT (Digital Audio) [DVD mode only]

This jack provides Digital Audio for your audio device that is Dolby® Digital and PCM compatible, such as an audio amplifier. The Optical Out feature is only available in DVD mode.

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



TYPICAL FULL-FEATURE SETUP



NOTE:

- 1. Connect only 1 component to each input jack.
- 2. Follow connections that pertain to your personal entertainment system.
- Composite video signal can be input to Input2~Input5.
- 4. Cables are not included with the purchase of this television.

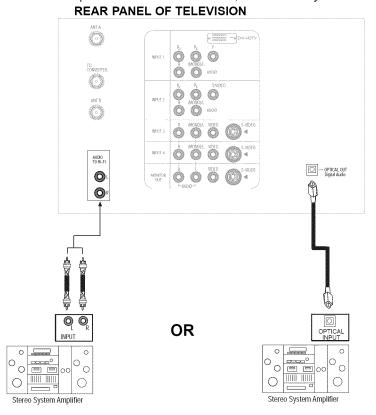


TIPS ON REAR PANEL CONNECTIONS

- 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 13). Refer to your VCR operating guide for more information on line input-output connections.
- You may use VIDEO or S-VIDEO inputs to connect to Input 3, Input 4 or Input 5, but only one of these may be used at a time.
- · Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack.
- COMPONENT: Y-P_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 40).
- To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR jacks.
- · When using a DVI input from a Set-Top-Box, it is recommended to use a 1080i or 720p input signal.



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



NOTE: 1. The Optical Out (Digital Audio) is only available in DVD mode.

- 2. 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.
- The Optical Out (Digital Audio) provides a fixed digital audio output to your external component such as an AV receiver
 with optical input capability. The audio level can only be controlled through the volume control of the external audio
 amplifier.
- 4. See page 43 for other Internal Speakers settings.

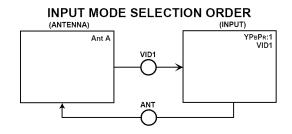
CONNECTING EXTERNAL VIDEO SOURCES

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 26).

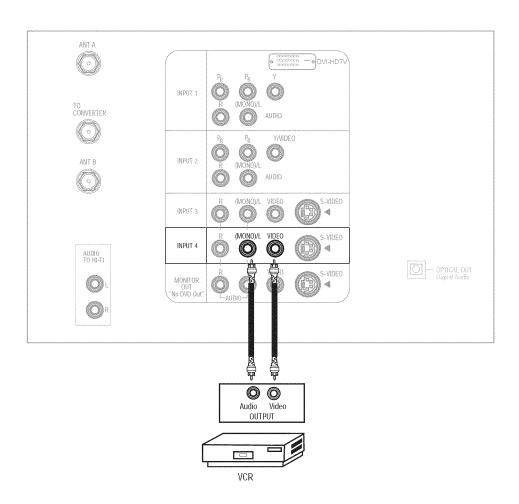


NOTE: When the TV is set to VIDEO and a video signal is not received from the VIDEO INPUT JACK on the back panel of the TV (i.e., VCR/laserdisc player, etc. is not connected or the video device is OFF), the set will appear to be OFF.

CONNECTING EXTERNAL VIDEO SOURCES

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.

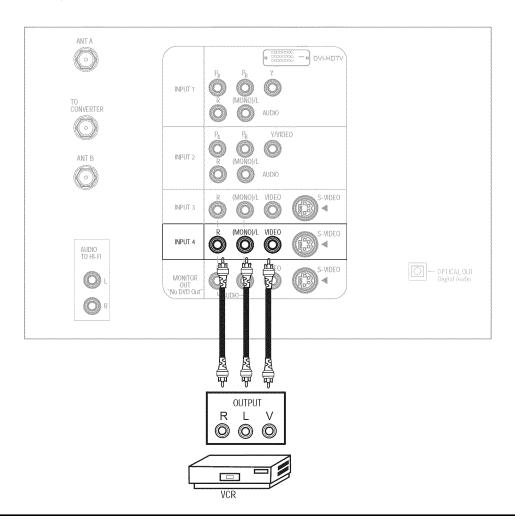






CONNECTING A STEREO SOURCE TO INPUT2~INPUT5

- 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.
- 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:

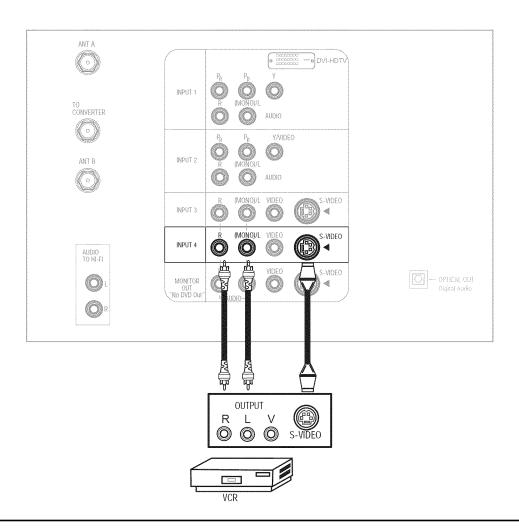
- Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is
 played back will be abnormal if the connection is loose.
- 2. A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output. (INPUT: 3 in example on page 13) 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:

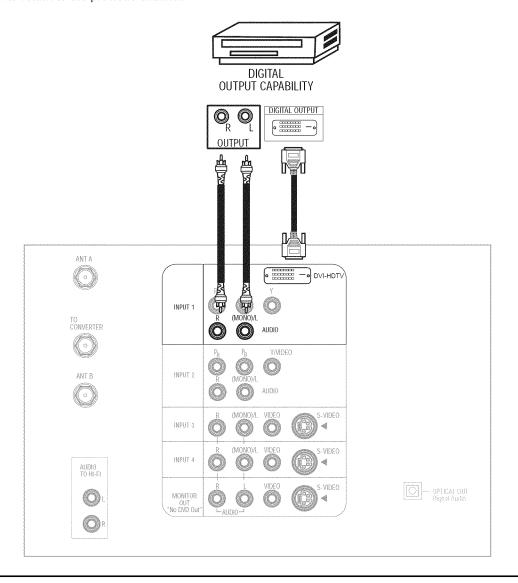
- 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
- A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output. (INPUT: 3 in example on page 13) Refer to your VCR operating guide for more information on line input-output connections.

CONNECTING EXTERNAL VIDEO SOURCES



CONNECTING A COMPONENT SOURCE WITH DVI-HDTV CAPABILITY TO INPUT 1

- 1. Connect the DVI connection cable from the output of the HDTV set top box or DVD player to the DVI-HDTV input as shown on the TV set below.
- 2. Connect the cable from the AUDIO OUT R of the HDTV set top box or DVD player to the INPUT (AUDIO/R) jack.
- Connect the cable from the AUDIO OUT L of the HDTV set top box or DVD player to the INPUT (AUDIO/L) jack.
- 4. Press the VID1 button to view the program from the HDTV set top box or DVD player. The VIDEO label disappears automatically after approximately four seconds.
- 5. Press the ANT button to return to the previous channel.



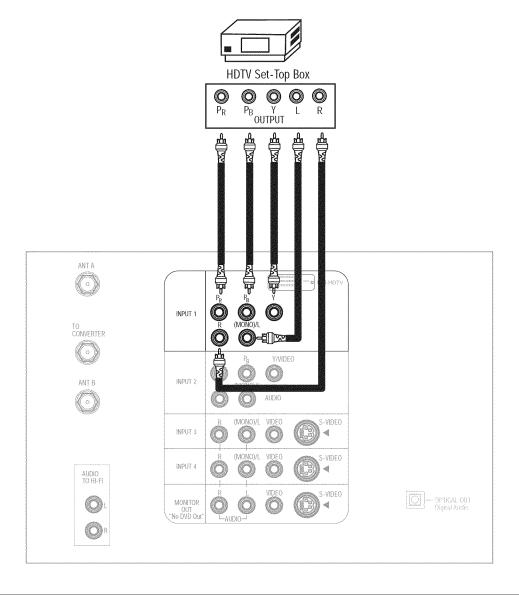
NOTES:

- Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is
 played back will be abnormal if the connection is loose.
- 2. The DVI-HDTV input on INPUT 1 contains the copy protection system called High-bandwidth Digital Content Protection (HDCP). HDCP is a cryptographic system that encrypts video signals when using DVI connections to prevent illegal copying of video contents.
- 3. DVI is not a "NETWORK" technology. It establishes a one-way point-to-point connection for delivery of uncompressed video to a display.
- 4. The connected digital output device controls the DVI interface so proper set-up of device user settings determines final video appearance.



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.
- Connect the cable from the C_B/P_B OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_B) jack.
- 3. 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.
- 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 14 for tips on REAR PANEL CONNECTIONS.

THE REMOTE CONTROL



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

To operate your TV, point the remote control at the screen of the TV and 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 30 for instructions on how to program the remote to control your VCR).

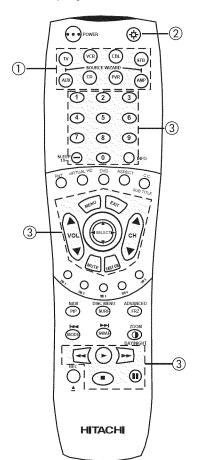
To operate your cable box, point the remote at the remote sensor of the cable box and press the CABLE (CBL) button. The CBL button will blink, indicating that the remote will now control your cable box (see page 31 for instructions on how to program the remote to control your cable box).

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 program your satellite receiver (see page 32 for instructions on how to program the remote to control your set-top-box).

To operate your AUXILIARY (AUX) player, point the remote at the remote sensor of the AUX player and press the AUX button. The AUX button will blink, indicating that the remote will now control your AUX player (see page 33 for instruction on how to program the remote to control your AUX player).

To operate your PVR (Personal Video Recorder), point the remote at the remote sensor of the PVR and press the PVR button. The PVR button will blink, indicating that the remote will now control your PVR (see page 34 for instruction on how to program the remote to control your PVR).

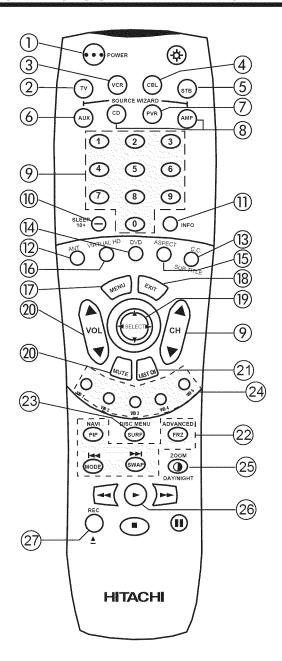
To operate additional audio equipment, point the remote at the remote sensor of the component you wish to control and press the CD or AMP button. This button will blink, indicating that the remote will now control the desired component (see page 35 for instructions on how to program the remote to control 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 19 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 hutton

When the VCR button is pressed, it will blink to indicate the remote is in VCR mode (see page 30).

(4) CABLE (CBL)

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

(5) SET-TOP-BOX (STB)

When the STB button is pressed, it will blink to indicate the remote is in STB mode (see page 32). If you have a Satellite receiver, use this button to program your Satellite receiver (see page 32).

(6) AUXILIARY (AUX) button

When the AUX button is pressed, it will blink to indicate the remote is in AUX mode (see page 33).



(7) PVR (Personal Video Recorder) button

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

(8) CD, AMP buttons

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

(9) CHANNEL selector (Numerical) 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 (\blacktriangle) or down (\blacktriangledown).

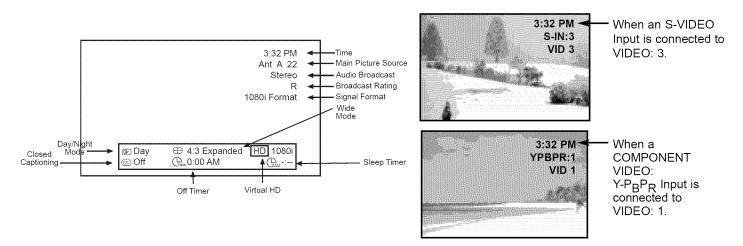
NOTE: The TV may not receive some channels if you are not in the correct ANTENNA/CABLE mode (see page 46).

(10) SLEEP and (-) DASH 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, press the INFO button 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. The DASH (-) button can only be used when the remote control is in Set-Top-Box (STB) mode.

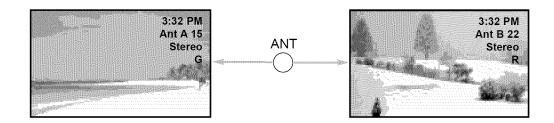
(11) INFO button

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.



(12) ANTENNA button

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



(13) 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 page 63).

(14) DVD button

Press this button to switch the TV to DVD mode (see page 65).

(15) 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 phosphors. Phosphors in the lighted

area of the picture will age more rapidly than the black areas.

4:3 Expanded use this aspect mode to display conventional (4:3) sources by linearly increasing image expansion from

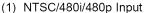
the center towards the edges of the display area in order to fill it.

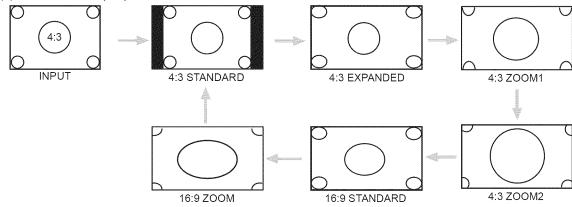
4:3 Zoom1/Zoom2 Use these aspect modes to zoom in on conventional (4:3) sources.

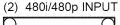
16:9 Standard Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect

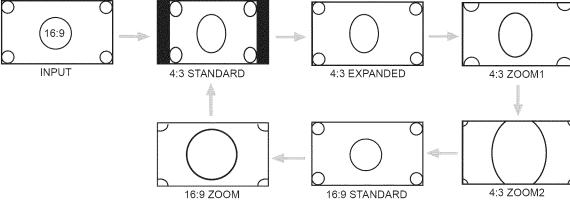
ratio.

16:9 Zoom Use this aspect mode to zoom 16:9 images.

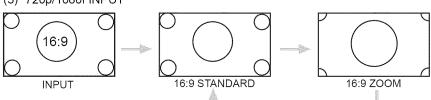








(3) 720p/1080i INPUT



NOTE:

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



(16) VIRTUAL HD button

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

540p and 1080i represent two ways to display the TV signal.

- Progressive: The "p" in 540p tells you that the display is showing you the picture in the progressive format. With the progressive format the complete picture is created by drawing lines across the screen from left to right which fill the screen from the top to the bottom. If you look very closely at the screen there will be a very small space between each line. The progressive format is good for displaying fast moving programs such as a sporting event.
- Interlaced: The "i" in 1080i tells you that the display is showing you the picture in the interlaced format. With the interlaced format the picture is created by drawing lines across the screen from left to right which fill the screen from top to bottom, and then returning to the top and drawing another set of lines in between the first set. The TV draws the lines so fast that our eyes can't see them. If you look very closely at the screen you will notice a smoother image than with the progressive format. The interlaced format is good for displaying detailed images like feature films.
- You can compare the progressive and interlaced formats by toggling the "VIRTUAL HD" button on the remote control. Some
 people like the crisp picture from 540p and some people like the smooth and detailed 1080i. Hitachi offers you the choice.

NOTE: The VIRTUAL HD button will not change the picture with a 1080i HDTV input. HDTV signals bypass the VIRTUAL HD circuitry and are shown in their native 1080i format.

(17) MENU button

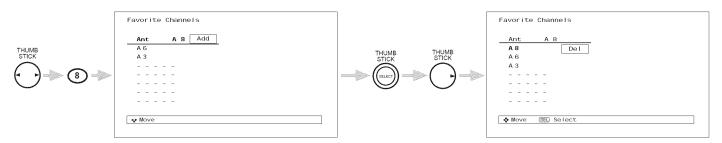
The MENU button will start the On-Screen Display.

(18) EXIT button

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

(19) 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.

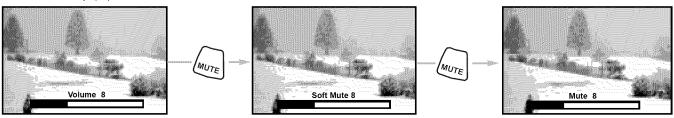
To delete (Del) the channel from the Favorite Channel, use THUMB STICK ▲ , ▼ to highlight the channel, then THUMB STICK ▶ to highlight Delete (Del) and press SELECT to delete.

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

(20) 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 63).

(21) LAST CHANNEL (LAST CH) button

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



22 PICTURE-IN-PICTURE buttons

See separate section on pages 27~29 for a description.

(23) SURF button

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

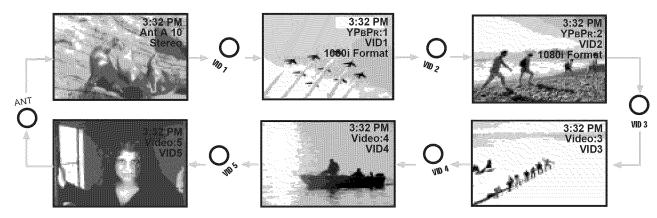


NOTES: 1. If no buttons are pressed when in SURF mode, auto-scanning will continuously scan channels in memory (see page 47).

- 2. If a channel is changed during this SURF scanning, sub-pictures will be removed from the screen.
- 3. If MOVIE/TV RATINGS LOCK setting is ON, PIP SURF mode will be deactivated.
- 4. CLOSED CAPTION will not appear when PIP SURF mode is on.
- 5. The SURF button will only work in ANT A and ANT B.
- 6. While in SURF scanning mode, press SELECT on the remote control to stop on a chosen channel. Press SELECT again to resume SURF scanning.

²⁴⁾ 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.



②5 DAY/NIGHT button

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

(26) PLAY button [DVD mode]

Press this button to start playback of DVD/CD disc (see page 64-82).

(27) DVD OPEN/CLOSE button

Press this button to open or close the disc loading tray (see pages 64-82).

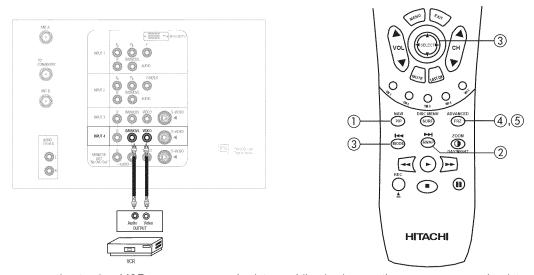
PICTURE-IN-PICTURE (PIP)



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 SWAP button on the remote. The green highlighted channel display will move with every press of the SWAP 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.



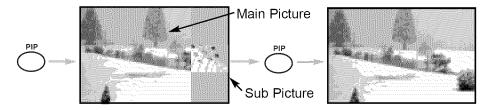
Use above connection to view VCR program as a sub-picture while viewing another program as main picture (ANT A, ANT B, V:1, V:2, V:3, or V:5). You may also view the VCR program as a main picture while viewing another program as a sub-picture (ANT A, V:1, V:2, V:3, or V:5).

(1) PIP button

Press the PIP button and a sub-picture will appear in one of the three different modes (POP, PIP and SPLIT), depending on the last selection of the PIP mode. To change the PIP mode, use the PIP MODE button to cycle through the three different modes.

POP MODE PICTURE-IN-PICTURE

Press the PIP button and a sub-picture appears in one of the three different modes (POP, PIP and SPLIT), depending on the last selection of the PIP mode. Press the PIP button again to remove the sub-picture from the screen. Use the SWAP 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, VIDEO:5 and ANT:A sources. (ANT B source cannot be viewed as a sub-picture.)

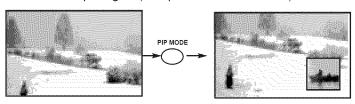


NOTES: 1. In POP mode, thumb stick CURSOR ▲, ▼ will move the sub-picture up/down.

2. Only sound from the main picture can be heard.

PIP MODE PICTURE-IN-PICTURE

This feature is only available with a 1080i input signal (Component and DVI-HDTV).





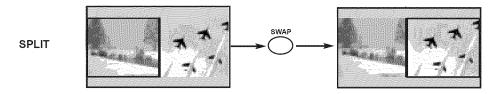
SPLIT MODE PICTURE-IN-PICTURE

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



(2) SWAP button (with PIP ON)

Press this button to toggle between the Main and Sub picture which is highlighted with a green border around the picture. Picture sound and channel can be controlled when it is highlighted.

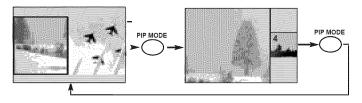


NOTE: The SWAP button will only operate in POP/PIP/SPLIT PIP mode.

(3) PIP MODE button

To change between the available PIP modes (moving picture - SPLIT, POP or PIP; freeze picture - SPLIT, STROBE, MAIN and SUB) press the PIP MODE button when PIP is ON. Each press of this button will change PIP to a different mode. Pressing this button two times will cycle through both PIP modes.

a) Moving Picture

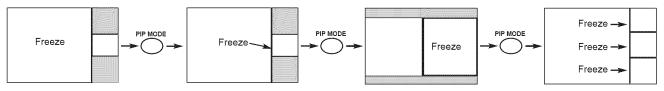


PICTURE-IN-PICTURE (PIP) MODES

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

NOTE: PIP modes will depend on the type of signal format received.

b) Freeze Picture



FREEZE MODES

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

NOTE: Freeze modes will depend on the type of signal format received.

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 four different modes.

POP MAIN FREEZE (with PIP OFF)

PIP FREEZE should be in POP Main 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.



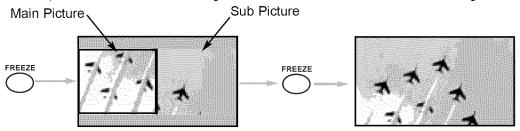
POP SUB FREEZE (with PIP OFF)

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



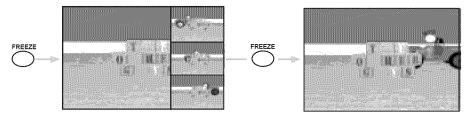
SPLIT FREEZE(with PIP OFF)

PIP FREEZE 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 or the PIP button to return to normal viewing.



STROBE FREEZE(with PIP OFF)

PIP FREEZE should be in STROBE 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 36 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 36. The indicator light will flash 3 times if the code was accepted.
- 5. 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.
- 2. 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.
- 5. 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

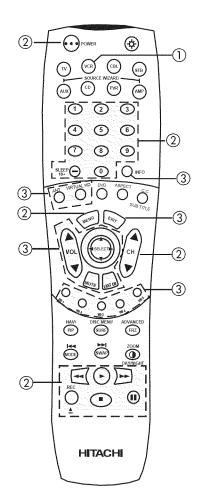
This button allows the remote to control your VCR by setting it to VCR mode.

(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 36).

- 1. Turn ON your cable box.
- 2. Aim the remote control at the front of your cable box.
- 3. 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 36. 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

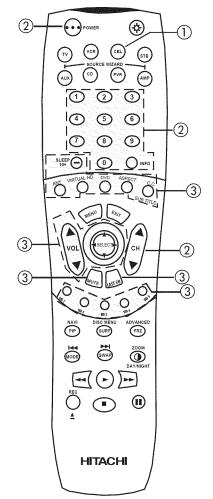
This button allows the remote to control your cable box by setting it to CABLE mode.

(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 36).

- 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 36. 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.
- 6. 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.
- 4. The ANT button will act as the TV/STB button when in STB mode.
- 1 SET-TOP-BOX (STB) button

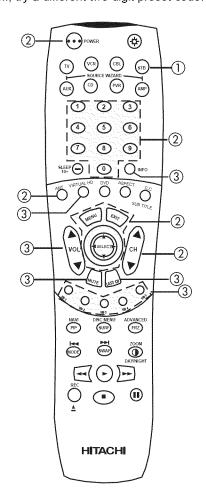
This button allows the remote to control your satellite receiver by setting it to SET-TOP-BOX/SATELLITE mode.

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 OTHER AUXILIARY (AUX) EQUIPMENT



Operating the precoded function for your AUXILIARY (AUX) equipment.

This remote is designed to operate different types of DVD players. You must first program the remote to match the remote system of your AUX equipment (refer to page 36 for pre-codes).

- 1. Turn ON your auxiliary equipment you wish to control with the remote.
- 2. Aim the remote control at the front of your Auxiliary equipment.
- 3. Press and release the AUX button to switch to AUX pre-coded mode.
- 4. Hold down the AUX button on the remote and enter the two digit preset code that matches your Auxiliary equipment, as shown on page 36. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the Auxiliary equipment and press the POWER button. The remote will turn off your Auxiliary equipment when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your Auxiliary equipment. If the Auxiliary equipment does not turn off, try a different two digit preset code.
- 6. The remote will now control your Auxiliary equipment.
- 7. You will need to set the display type of your Auxiliary equipment to 16:9 widescreen.

NOTES:

- If your Auxiliary equipment cannot be operated after performing the above procedures, your Auxiliary equipment's code has not been precoded into the remote.
- 2. In the unlikely event that your Auxiliary equipment cannot be operated after performing the above procedures, please consult your Auxiliary 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) AUX Button

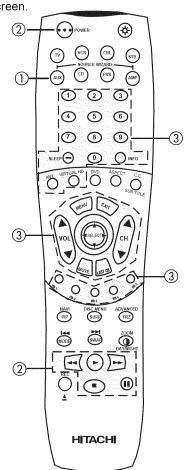
This button allows the remote to control your Auxiliary equipment by setting it to AUX mode.

(2) PRECODED AUX Buttons

These buttons transmit the chosen precoded Auxiliary codes.

(3) EXCLUSIVE TV Buttons (except number buttons)
These buttons are for operating the TV. The number buttons

These buttons are for operating the TV. The number buttons can also be used to operate your Auxiliary equipment.



MY AUXILIARY EQUIPMENT CODE IS: _____

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

USING THE REMOTE TO CONTROL PVR FUNCTIONS

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

This remote is designed to operate different types of PVRs. You must first program the remote to match the remote system of your PVR (refer to page 36 for pre-codes).

- 1. Turn ON your PVR.
- 2. Aim the remote control at the front of your PVR.
- 3. Press and release the PVR button to switch to PVR pre-coded mode.
- 4. Hold down the PVR button on the remote and enter the two digit preset code that matches your PVR, as shown on page 36. The indicator light will flash 3 times if the code was accepted.
- 5. Aim the remote at the PVR and press the POWER button. The remote will turn off your PVR when the correct two digit preset code is entered. When this occurs, the remote control is programmed for your PVR. If the PVR does not turn off, try a different two digit preset code.
- 6. The remote will now control your PVR.

NOTES:

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

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

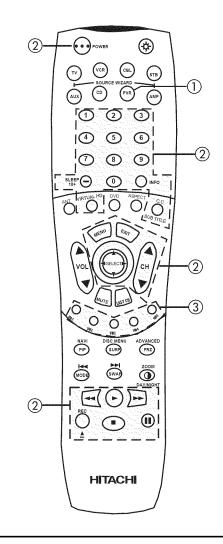
(2) PRECODED PVR Buttons

These buttons transmit the chosen precoded PVR codes.

NOTE: The C.C. button functions as "replay".

(3) EXCLUSIVE TV Buttons

These buttons are for operating the TV.



MY PVR CODE IS: ____

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

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 36 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 or AMP button (Audio buttons) to switch to Audio component pre-coded mode.
- 4. Hold down the CD or AMP button on the remote and enter the two digit preset code that matches your Audio component, as shown on page 36. 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 and AMP Buttons

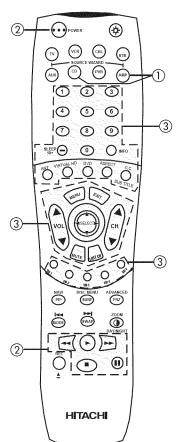
These buttons allow the remote to control your Audio equipment by setting it to Audio mode.

(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
AMP/RCVR

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



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

VCR BRAND					
Adventura					
Aiwa					
Akai					
American High					
Asha					
Audiovox					
Beaumark					
Bell & Howell Broksonic					32
Calix				JJ,	. 34, 41
Canon					23
Carver					
CCE					
Citizen					
Craig				19,	24, 44
Curtis Mathes				02,	23, 46
Cybernex					
Daewoo					
Electrohome					
Electrophonic					
Emerex					
Emerson	01,	09,	13,	16,	24, 27,
	. 28	, 33,	34,	36,	41, 47
Fisher				19,	21, 32
Fuji					,
Funai					
Garrard					01
GE			04,	23,	40, 46
Goldstar					
Harley Davidson					
Harmon/Kardon					
Headquarter					
Hi-Q					
Hitachi		. 01,	02,	03,	04, 05
Jensen					02
JVC				02,	14, 26
KEC					09, 24
Kenwood					
KLH					
Kodak					
Lloyd's					
LXI					
Magnavox			15.	23.	31. 35
Magnin					44
Marantz					23, 31
Marta					
Matsushita					
MEI				:	23
Memorex			01,	15,	18, 19,
MGA			∠3,	∠ 4,	16, 47
MGN Technology					
Minolta					
Mitsubishi		. 16	26	39	47, 48
Motorola					
MTC					
Multitech					
NEC					
Nikko					
Noblex					
Olympus					12, 23
Optimus			11	2U,	24, 32
Penney			. ロ, つる	1Z,	25, 38
Penney		. 00,	۷٦,	24, 03	04 05
Philco					
Phillips					
Pilot					
Pioneer					
Pulsar					

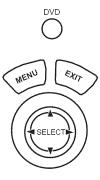
Quarter					18
Quartz					18
Quasar					
Radix					24
Randex					24
RCA	03,	04,	05,	35,	40, 46
Realistic			01,	18,	19, 20,
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Runco					15
Samsung					17, 44
Sanky					15, 20
Sansui					02, 26
Sanyo	16		18,	19,	32, 44
Sears	10,	17,	03. 03.:	54, 05	18 19
			21,	23,	24, 32
Sharp					20
Shintom					
Shogun					
STS			00,	IU,	03
Sylvania			01,	16,	23, 31
Symphonic					01
Tatung					02
Teac					01, 02
Teknika				01	23, 36
ГМК					. 27,44
Toshiba			16,	17,	21, 36
Totvision					24, 44
Jnitech					44
Vector					25
Video Concepts					17, 47
√ideosonic					44
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XR-1000	 	 	35,	36,	44, 46 01, 23 25
XR-1000 Yamaha Zenith			35,	36,	44, 46 01, 23 25 15, 22
XR-1000		· · · ·	35,	36,	44, 46 01, 23 25 15, 22
KR-1000 'amaha Zenith DVD BRAND APEX Denon.			35,	36,	44, 46 01, 23 25 15, 22 CODE 15 04
KR-1000 'amaha	• • • •		35,	36,	44, 46 01, 23 25 15, 22 CODE 15 04 14
KR-1000 'Amaha Zenith DVD BRAND APEX Denon Go Video -litachi	• • • •	• • • •	35,	36,	44, 46 01, 23 25 15, 22 CODE 15 04 14 12, 13
KR-1000 /amaha Zenith DVD BRAND APEX Denon Go Video Hitachi JVC			35,	36,	44, 46 01, 23 25 15, 22 CODE 15 04 14 12, 13 01
KR-1000 'Amaha Zenith DVD BRAND APEX Denon Go Video -litachi	• • • • • • • • • • • • • • • • • • • •		35,	36, 10, 07,	44, 46 01, 23 25 15, 22 CODE 15 04 14 12, 13 01 04, 16
KR-1000 'Yamaha Zenith DVD BRAND APEX Denon Go Video Hitachi JVC Kenwood Magnavox Mitsubishi	•••		35,	36,	44, 46 01, 23 25 15, 22 CODE 15 04 14 12, 13 01 04, 16 05 10
KR-1000 'Yamaha Zenith DVD BRAND APEX Denon Go Video Hitachi JVC Kenwood Magnavox Mitsubishi	•••	• • • • • • • • • • • • • • • • • • • •	35,	36, 10, 07,	44, 46 01, 23 25 15, 22 CODE 15 04 14 12, 13 01 04, 16 05 10 04
KR-1000 'Yamaha Zenith DVD BRAND APEX Denon Go Video Hitachi JVC Kenwood Magnavox Mitsubishi Panasonic Phillips	••••		35,	36, 10, 07,	44, 46 01, 23 25 15, 22 CODE 15 04 14 12, 13 01 04, 16 05 10 04 06
XR-1000 Yamaha Zenith DVD BRAND APEX Denon Go Video -litachi JVC Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer	••••		35,	36, 10, 07,	44, 46 01, 23 25 15, 22 CODE 15 04 14 12, 13 01 04, 16 05 10 06 03
KR-1000 'Yamaha Zenith DVD BRAND APEX Denon Go Video Hitachi JVC Kenwood Magnavox Mitsubishi Panasonic Phillips	••••		35,	36,	44, 46 01, 23 25 15, 22 CODE 15 04 14 12, 13 01 04, 16 05 10 04 04 04 03 09, 17
KR-1000 'yamaha Zenith DVD BRAND APEX Denon Go Video Hitachi JVC Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer RCA (Proscan) Samsung Sanyo			35,	36,	44, 46 01, 23
KR-1000 Yamaha. Zenith DVD BRAND. APEX Denon Go Video Hitachi JVC Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer RCA (Proscan) Sanyo Sanyo Sony			35,	36,	44, 46 01, 23 25 15, 22 CODE 15 04 14 12, 13 01 04, 16 05 10 04 04 05 10 04 05 10 04 05 10 05 10 05 10 05 10 05 10 05
KR-1000 yamaha. Zenith DVD BRAND. APEX Denon Go Video -litachi IVC. Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer RCA (Proscan) Samsung Sanyo Sony Ioshiba			35,	36,	44, 46 01, 23 25 15, 22 CODE 15 04 01 04, 16 05 10 04 03 09, 17 12 13 02 05
KR-1000 Yamaha. Zenith DVD BRAND. APEX Denon Go Video Hitachi JVC Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer RCA (Proscan) Sanyo Sanyo Sony			35,	36,	44, 46 01, 23 25 15, 22 CODE 15 01 04, 16 05 10 04 06 05 10 04 06 05 10 04 06 05 10 04 06 05 10 04 06 05 08
KR-1000 Yamaha. Zenith DVD BRAND. APEX Denon Go Video Hitachi JVC Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer RCA (Proscan) Sanyo Sanyo Sony Toshiba Yamaha Zenith			35,	36,	44, 46 01, 23 25 15, 25 15, 25 CODE 15 04 14 12, 13 01 04, 16 05 10 04 04 05 10 05 10 05 10 05 10 05 10 05 10 05 10 05 10
KR-1000 yamaha Zenith DVD BRAND. APEX Denon Go Video -litachi JVC. Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer RCA (Proscan) Samsung Sanyo Sony Joshiba yamaha Zenith CABLE BRAND			35,	36,	44, 46 01, 23 25 15, 22 CODE 15 04 01 04, 16 05 10 04 03 09, 17 12 13 01 05 10 04 05 10 04 05 10 04 05 10 05 10 05 10 05 10 05 10 05 10 05 10 05 10 05 10 05 10 05 10 05 10 05 08 05, 11
KR-1000 yamaha. Zenith DVD BRAND. APEX Denon Go Video Hitachi JVC Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer RCA (Proscan) Samsung Sanyo Sony Toshiba yamaha Zenith CABLE BRAND ABC			35,	36,	44, 46 01, 23
KR-1000 yamaha. Zenith DVD BRAND. APEX Denon Go Video. Hitachi JVC. Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer RCA (Proscan). Samsung Sanyo Sony Toshiba yamaha Zenith CABLE BRAND ABC			35,	36,	44, 46 01, 23
KR-1000 Yamaha Zenith Zenith DVD BRAND APEX Denon Go Video -litachi JVC Kenwood Magnavox Witsubishi Panasonic Phillips Pioneer RCA (Proscan) Samsung Sanyo Sony Toshiba Yamaha Zenith CABLE BRAND ABC Antronix		18,	35,	36,	44, 46 01, 23 25 15, 22 CODE 15 04 14 12, 13 01 04, 16 05 10 04 03 09, 17 12 05 08 05, 11 CODE 08, 17, 37, 49 39 24, 39
KR-1000 yamaha. Zenith DVD BRAND. APEX Denon Go Video -litachi JVC. Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer RCA (Proscan) Samsung Sanyo Sony Joshiba yamaha Zenith CABLE BRAND ABC Antronix Archer Belcor		18,	35,	36,	44, 46 01, 23 25 15, 22 CODE 15 04 12, 13 01 04, 16 05 10 04 03 09, 17 12 13 01 05 08 05, 11 CODE 08, 17, 37, 49 39 24, 39 24, 39 32
KR-1000 yamaha. Zenith DVD BRAND. APEX Denon Go Video. Hitachi JVC. Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer RCA (Proscan). Samsung Sanyo Sony Toshiba yamaha Zenith CABLE BRAND ARC Antronix. Archer Belcor Cable Star		18,	35,	36,	44, 46 01, 23
KR-1000 Yamaha. Zenith DVD BRAND. APEX Denon Go Video Hitachi JVC Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer RCA (Proscan) Samsung Samsung Sanyo Gony Toshiba Yamaha Zenith CABLE BRAND ABC Antronix Archer Belcor Cable Star Cenitury		18,	35,	36,	44, 46 01, 23
KR-1000 yamaha. Zenith DVD BRAND. APEX Denon Go Video Hitachi JVC. Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer RCA (Proscan) Samsung Sanyo Sony Toshiba yamaha Zenith CABLE BRAND ABC Antronix Archer Belcor Cable Star Century Citizen Colour Voice		18,	35,	36,	44, 46 01, 23
KR-1000 yamaha Zenith DVD BRAND. APEX Denon Go Video Hitachi JVC Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer RCA (Proscan) Samsung Sanyo Sony Toshiba yamaha Zenith CABLE BRAND ARC Antronix Archer Belcor Cable Star Century Citizen Colour Voice Comtronics		18,	35,	36,	44, 46 01, 23 25 15, 22 CODE 15 01 04, 16 05 10 04 06 03 09, 17 12 13 01 CODE 08, 17, 37, 49 39 24, 39
KR-1000 yamaha. Zenith DVD BRAND. APEX Denon Go Video Hitachi JVC. Kenwood Magnavox Mitsubishi Panasonic Phillips Pioneer RCA (Proscan) Samsung Sanyo Sony Toshiba yamaha Zenith CABLE BRAND ABC Antronix Archer Belcor Cable Star Century Citizen Colour Voice		18,	35,	36,	44, 46 01, 23 25 15, 22 CODE 15 01 04, 16 05 10 04 05 13 01 04 05 10 04 05 10 04 05 10 04 05 10 04 05 10 04 05 10 04 05 10 04 05 10 05 10 04 05 10 05 10 04 05 10 05 10 05 08 10 05 08 13 05 08 05 08 05 11 05 08 05 08 05 11 05 08

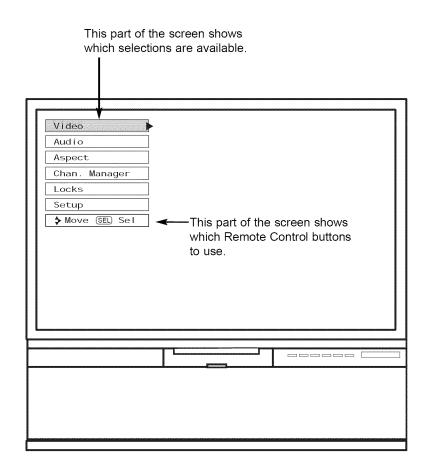
Dae Ryung				20
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Hytex				
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Jasco	27	40	50	. II
3erroid 01, 06, 12,	31,	49,	50,	01
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Rembrandt				
Runco				
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Scientific Atlanta17, Signal	20,	41,	45, 25,	55 51 01 25
Scientific Atlanta	20,	41,	45, 25,	55 51 01 25 02
Scientific Atlanta17, Signal	20,	41,	45, 25,	55 51 01 25 02
Scientific Atlanta	20,	41,	45, 25, 49,	55 51 01 25 02 51
Scientific Atlanta	20,	41,	45, 25, 49, 25,	55 51 01 25 02 51 51
Scientific Atlanta	20,	41,	45, 25, 49, 25,	55 51 01 25 02 51 51 51
Scientific Atlanta	20,	41,	45, 25, 49, 25, 53,	55 51 01 25 02 51 51 51 54
Scientific Atlanta	20,	37,	45, 25, 49, 25, 53,	55 51 01 25 02 51 51 51 54 18
Scientific Atlanta. 17, Signal	20,	41,	45, 25, 49, 25, 53,	55 51 01 25 02 51 51 51 54 18 25
Scientific Atlanta. 17, Signal	20,	41,	45, 25, 49, 25, 53,	55 51 01 25 02 51 51 54 18 25 18
Scientific Atlanta	20,	41, 37, 07,	45, 25, 49, 25, 53, 27,	55 51 01 25 02 51 51 54 18 25 18
Scientific Atlanta. 17, Signal	20,	41, 37, 07,	45, 25, 49, 25, 53, 27,	55 51 01 25 51 51 51 54 18 25 18 50 03
Scientific Atlanta	20,	41, 37, 07,	45, 25, 49, 25, 53, 27,	55 51 01 25 51 51 51 54 18 25 18 50 03
Scientific Atlanta. 17, Signal	20,	41, 37, 07,	45, 25, 49, 25, 53, 	55 51 01 25 51 51 51 54 18 25 18 50 03 51
Scientific Atlanta 17, Signal Signature. SL Marx. Sprucer Starcom. Stargate. Starquest. Starsight Sylvania Teleview Texscan. Tocom Toshiba Tusa TV 86	20,	41, 37, 07,	45, 25, 49, 25, 53, 	55 51 01 25 51 51 51 54 18 25 18 50 03 51 29
Scientific Atlanta	20,	41, 37, 07,	45, 25, 49, 25, 53, 	55 51 01 25 02 51 51 51 54 18 50 03 51 29 39
Scientific Atlanta. 17, Signal	20,	41,	45, 25, 49, 25, 53, 27, 	55 51 01 25 51 51 51 54 18 25 18 50 31 51 29 36
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Scientific Atlanta	20,	41, 37, 07, 32,	45, 25, 49, 25, 53, 11, 	55 51 01 25 02 51 51 51 54 25 18 50 31 39 36 49 39 47
Scientific Atlanta	20,	41, 	45, 25, 49, 25, 53, 27, 11, 29,	55 51 01 25 02 51 51 51 54 25 8 50 03 51 29 39 47 40
Scientific Atlanta. 17, Signal	20,	41, 	45, 25, 49, 25, 53, 11, 34, 29, 03,	55 51 01 25 02 51 51 51 54 25 8 50 03 51 29 39 47 40 48
Scientific Atlanta	20,	41, 	45, 25, 49, 25, 53, 11, 34, 29, 03,	55 51 01 25 02 51 51 51 54 25 8 50 03 51 29 39 47 40 48
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Scientific Atlanta 17, Signal 17, Stargate	20,	41, 	45, 25, 49, 25, 53, 27, 11, 29, 03, 	55 51 01 25 51 51 51 51 51 51 51 51 51 51 51 51 51
Scientific Atlanta. 17, Signal	20,	41, 37, 07, 32, 28,	45, 25, 49, 25, 53, 27, 11, 29, 03, 	55 51 01 25 51 51 51 51 51 51 51 51 51 51 51 51 51
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Scientific Atlanta	20,	41,	45, 25, 49, 25, 53, 11, 34, 29, 03,	55 51 01 25 51 51 51 51 51 51 51 51 51 51 51 51 51
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Scientific Atlanta	20,	41,	45, 25, 49, 25, 53, 27, 11, 29, 03, CO	55 51 01 25 51 51 51 51 51 51 51 51 51 51 51 51 51
Scientific Atlanta. 17, Signal	20,	41, 	45, 25, 49, 25, 53, 27, 11, 29, 03, CO	55 51 01 25 02 51 51 51 51 51 51 51 51 51 51 51 51 51
Scientific Atlanta 17, Signal 17, Stargate 1	20,	41,	45, 25,	55101250251551825803512936439474085 DE 04100203 DE

AMPLIFIER BRAND)			.	СО	I
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Denon						
Fisher					08,	
Hitachi						
JVC						
Kenwood			14,	15,	17,	
Magnavox					01,	1
Marantz				01,	06,	
MCS						
Optimus		03,	04,	11,	15,	
Panasonic						
Philips					01,	1
Pioneer		03,	04.	20,	21,	:
Quasar						
Sansui						1
Sanyo						
Sharp						
Sonv						
Sony		02	16	23	24	
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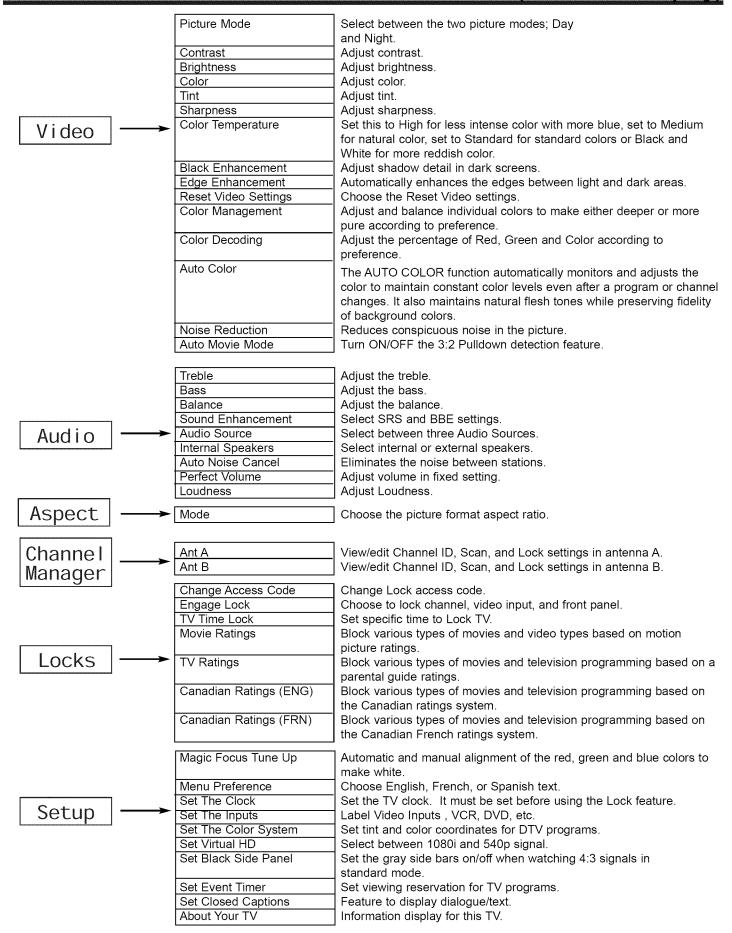
TELEVISION OSD (On-Screen Display)

- 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.
- 4. Press DVD button on the remote control to access the DVD mode and play your DVD/CD disc (see page 65).
- 5. Press THUMB STICK ◀ or ▶ to access Favorite Channels menu.



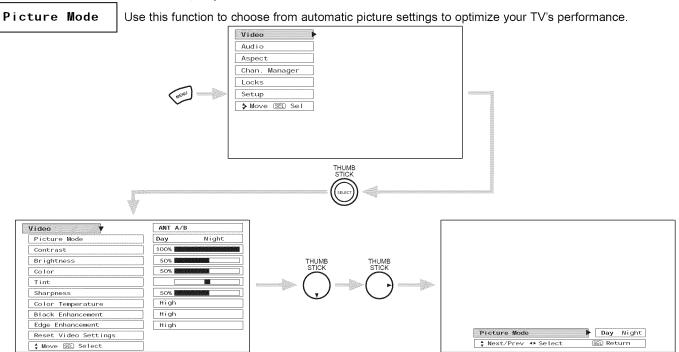


TELEVISION OSD (On-Screen Display)





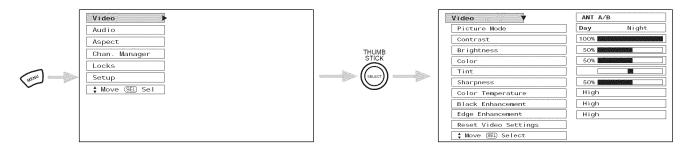
Select VIDEO to adjust picture settings and improve picture quality. You can customize each of the Video Inputs to your preference to increase viewing performance and pleasure depending upon the video program being viewed. If RESET is selected, only the selected mode will reset to initial conditions.



Use THUMB STICK ◀ or ▶ to highlight and select Picture Mode settings.

Function	Day	Night	Reset
Contrast	100%	50%	Reset the video
Brightness	50%	50%	menu settings on
Color	50%	45%	current input to the
Tint	Center	Center	Day or Night
Sharpness	50%	50%	conditions depending
Color Temperature	High	Standard	on the selected
Black Enhancement	Middle	Low	VIDEO mode.
Edge Enhancement	High	Low	
Auto Color	Off	Off	
Noise Reduction	Off	Off	
Color Management (Set User Colors)	Off	Off	
Auto Movie Mode (TV/Cinema Detection)	Off	Off	Antonio Maria

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



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

Press down on THUMB STICK to select the function settings.

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

Press MENU to return to main menu.

Press EXIT to quit menu.

Contrast

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

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. Sharpness function will be disabled when Noise Reduction is ON.

Color Temperature

Set this to High for cooler color with more blue, set to Medium for more natural color, set to Standard for accurate color or set to Black/White for more reddish color.

Black Enhancement

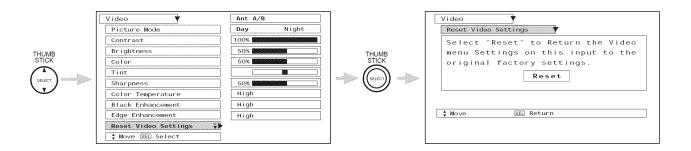
Use this function to enhance the shadow detail in dark scenes using the settings off, low, middle and high.

Edge Enhancement

Use this function to automatically enhance the edges between light and dark areas using the settings Off, Low, Middle, and High.

- 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. Contrast will decrease automatically if stationary images such as digital still photos are left on the screen for more than
 - 3. It may be necessary to adjust TINT to obtain optimum picture quality when using the COMPONENT VIDEO Y-PBPR input jacks.

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



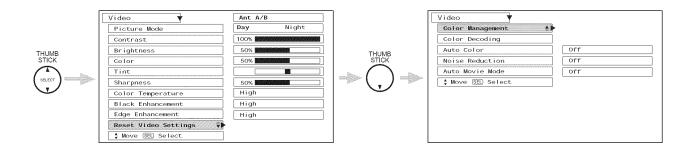
Use THUMB STICK to highlight functions.

Press down on THUMB STICK to select Reset Video Settings.

Use THUMBSTICK ▼ to access other video settings.

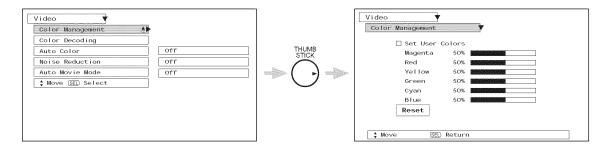
You can customize each of the Video Inputs to your preference to increase viewing performance and pleasure, depending upon the video program being viewed. If RESET is selected, only the selected mode will reset to the initial conditions as explained above.

If RESET is selected in Video:1 mode, only Video:1 mode will return to factory conditions.



Color Management

Use this function to adjust and balance the listed individual colors to make them either deeper or more pure depending on the user's preference.



Use THUMBSTICK to highlight function.

Press down to select the User Colors setting. When the function has a " $\sqrt{"}$ in the box, it is ON.

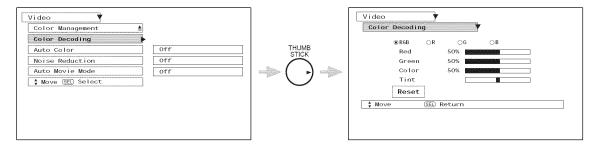
Press THUMBSTICK ◀, ▶, ▼, ▲, to highlight and adjust individual colors.

Use THUMBSTICK to highlight and select "Reset" to return all colors to default settings.

NOTE: When the Set User Colors box is not checked off, the listed colors will be grayed out.

Color Decoding

Use this function to adjust the percentage of Red, Green and Color according to the user's preference. Use TINT to adjust flesh tones so they appear natural.



Use THUMBSTICK to highlight function.

Press down to select from 4 menu items.

Press THUMBSTICK ◀, ▶, ▼, ♠, to highlight and adjust Red, Green, Color and Tint. Use THUMBSTICK to highlight and select "Reset" to return all settings to default.

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

Auto Color

The AUTO COLOR function automatically monitors and adjusts the color to maintain constant color levels even after a program or channel changes. It also maintains natural flesh tones while preserving fidelity of background colors.

NOTE: When using Component or DVI-HDTV input, Auto Color will not be available (grayed out).

Noise Reduction

The NOISE REDUCTION function automatically reduces conspicuous noise in the picture without degrading picture quality. Set NOISE REDUCTION to OFF if the TV experiences picture blocking. When Noise Reduction is ON, Sharpness function is disabled (grayed out).

Auto Movie Mode

The Auto Movie Mode function turns ON or OFF the 3:2 PULLDOWN DETECTION SPECIAL FEATURE. Theatrical movies are shot on film at 24 frames or still pictures per second, instead of 30 frames or 60 fields like video. When film is transferred to video for television viewing, the disparity between the two frame rates must be reconciled. This involves a process known as 3:2 pulldown.

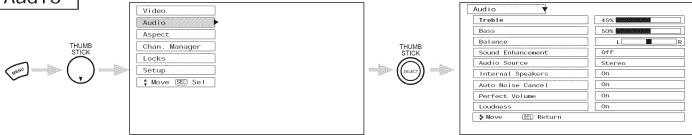
When Auto Movie Mode is turned ON from the VIDEO menu, your Hitachi Projection Television will activate the circuitry for this special feature to improve video performance when watching film based sources.

NOTES:

- **1.** When using Progressive Scan Component or DVI-HDTV input (Ex. 480p, 720p and 1080i), Auto Movie Mode will not be available (grayed out).
- 2. All Video settings are independent of each other based on it's input (ANT A/B, Input 1~5).

Audio

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



Press THUMB STICK ▲, ▼, to select menu item.

Press THUMB STICK ◀ or ▶ to adjust the function.

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

ac

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.

Sound Enhancement

See page 44.

Balance

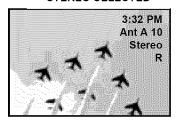
This function will control the left to right balance of the Projection TV internal speakers.

Audio Source

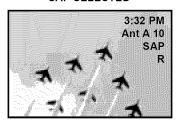
Multi-Channel Television Sound will allow you to select STEREO (a stereo broadcast), MONO (monaural sound) used when receiving a weak stereo broadcast or 2nd Audio Prog (SAP) which may be a secondary language, weather report, etc.

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

STEREO SELECTED



SAP SELECTED



MONO SELECTED



Internal Speakers

This function is useful when setting up the external speakers.

ON - Select this feature if using the internal speakers only.

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

Auto Noise Cancel

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

Perfect Volume

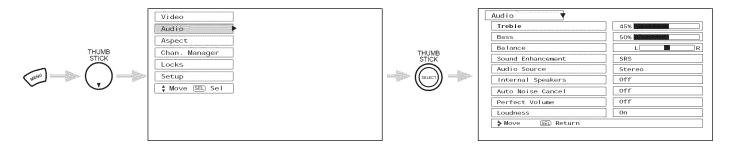
This function will automatically adjust volume so each channel and input has the same average volume level.

Loudness

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

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 THUMB STICK ▶ to select SOUND ENHANCEMENT of your choice (Off, SRS, BBE and SRS and BBE).

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

SRS (D)

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. SRS technology is incorporated under license from SRS Labs, Inc.

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.

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

ASPECT

Aspect Mode

Use this function to select the Picture Format Aspect Ratio.

Auto Aspect

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

Press THUMB STICK ▲, ▼, ◄, ▶, to select menu item.

Press down on THUMBSTICK to select. A "\" in the box indicates that the feature is ON.

NOTES:

- 1. The Auto Aspect function is recommended on an input signal with VIDEO ID.
- 2. The Auto Aspect function is best used on composite video, S-Video, and 480i component signals.
- 3. See page 24 for Aspect Mode availability.

Vertical Position

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

Press THUMB STICK ▲, ▼, to select menu item.

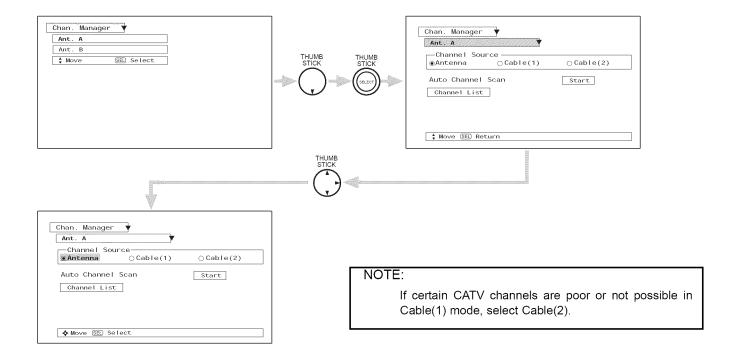
Press THUMB STICK ◀ or ▶ to adjust the function.

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

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

Chan. Manager

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



Use THUMB STICK ◀, ▶ to highlight the correct Channel Source. Press the THUMB STICK to select highlighted source. Press EXIT to quit the 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	65 ~ 125		
	W + 29 ~ W + 84			

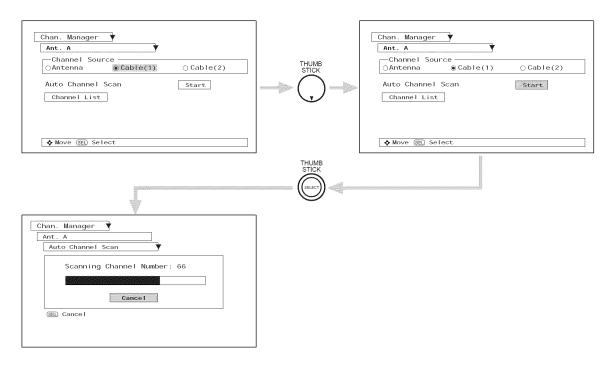
Reception channels for each mode are shown at the left.

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

CHANNEL MANAGER

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 (▲) or DOWN (▼).

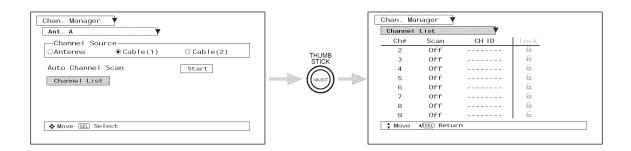


If the EXIT button is pressed while AUTO CHANNEL SCAN function is engaged, programming will stop. If two antennas are connected, switch antenna inputs and repeat AUTO CHANNEL SCAN for the second antenna input.

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

Channel List

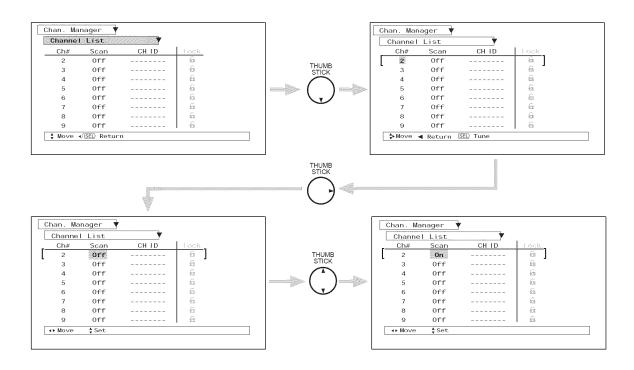
This function allows you to review which channels are labeled (CH ID), which have been added to Channel Memory (SCAN), and which are protected by LOCK.



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

Scan

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



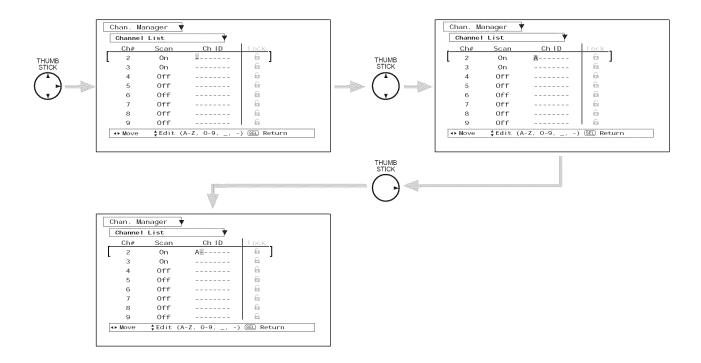
To add (Scan-On) or skip (Scan-Off) additional channels while in Channel List, THUMB STICK \blacktriangleleft to highlight the channel number, then THUMB STICK \blacktriangle or \blacktriangledown to highlight other channels. Once the desired channel is highlighted, THUMB STICK \blacktriangleright to scan column, then THUMB STICK \blacktriangle or \blacktriangledown to select ON or OFF.

NOTE: Lock feature cannot be selected or set in CHANNEL LIST.

CHANNEL MANAGER

Channel ID

This section 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.



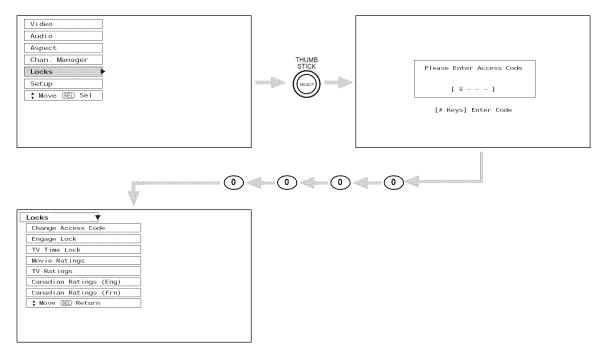
NOTES:

- 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 not be displayed when PIP is ON.

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 secret code.



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

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

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

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

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

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

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

When TV TIME LOCK is turned on (☑ 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 (TV will time out one time a week).

When MOVIE RATINGS is selected, you can block various types of movies and video tapes based on motion picture ratings. 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.

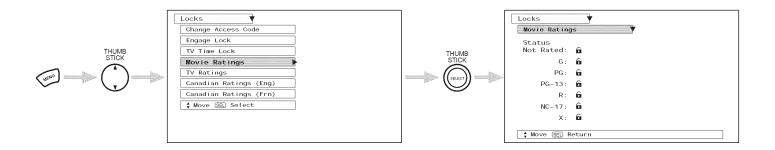
NOTE:

- 1. If ANT A and ANT B are in the same signal source mode (see page 47), when a channel is locked, it is locked on both antenna inputs.
- 2. When using TV TIME LOCK make sure the clock is set (see page 59).
- 3. Text appears on the screen to indicate that TV TIME LOCK is activated.
- 4. If MOVIE/TV Ratings Lock function settings are ON, SURF will be deactivated.

LOCKS

Movie Ratings

Use MOVIE RATINGS to prevent viewing of 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.

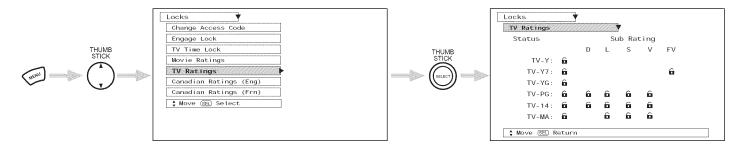
Press EXIT to quit the menu or select MOVIE RATING to return to the previous menu.

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.
X	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 prevent the viewing of 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 RATINGS that you have selected.

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

TV Parental Guide Ratings Chart

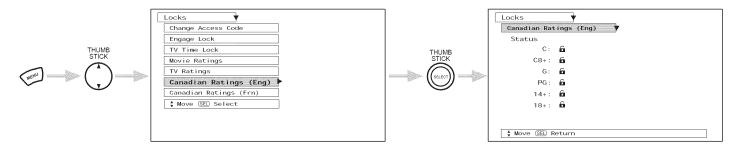
N/A	None.
TV-Y	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
TV-Y7	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under 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 any type of movie and television program in Canada that you feel might be inappropriate in 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.

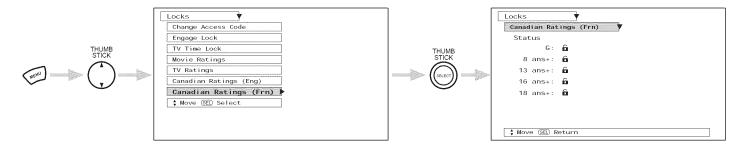
Press EXIT to guit menu.

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 Guidelines: May contain graphic language and explicit portrayals of nudity and/or sex.

Canadian Ratings (Frn)

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



Use 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.

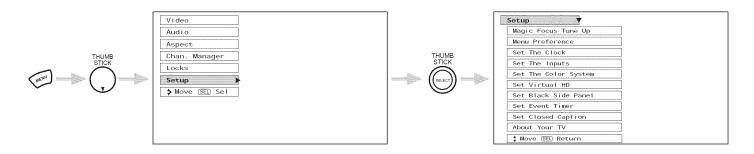
Canadian Ratings French Chart

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.

Magic Focus
Tune Up

Auto Digital Convergence Adjustment

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

The Magic Focus button on control panel will not work when adjustment mode is set to Manual (see page 57).

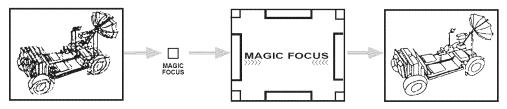
Your HITACHI Projection TV has three color projection tubes: one for red, one for green, one for blue. When mixed together in the proper proportion, the output of these three color tubes can produce any color. To produce these colors, however, the beams must be precisely aligned over each other so that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

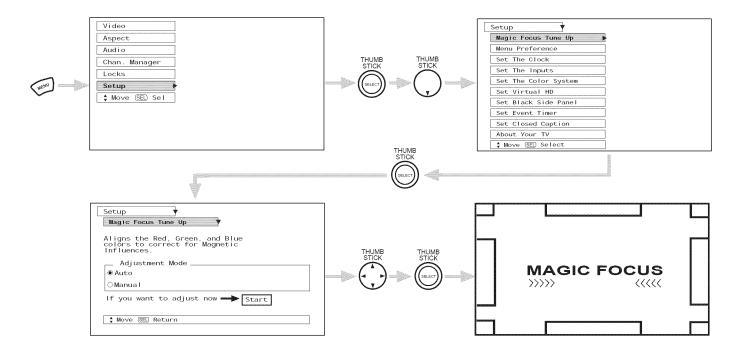
Properly converged, the lines appear white, which is actually a combination of the outputs of the three color tubes. The output of the green tube is stationary. The outputs of the red and blue tubes can be adjusted. When properly aligned, the outputs of all three tubes should be directly over each other 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 TUNE UP from the Setup 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 SETUP-MAGIC FOCUS TUNE UP-MANUAL ADJUSTMENT MODE-START to access convergence crosshatch pattern. The adjustment point is indicated by the Adjustment Point Cursor.

To Move Adjustment Point

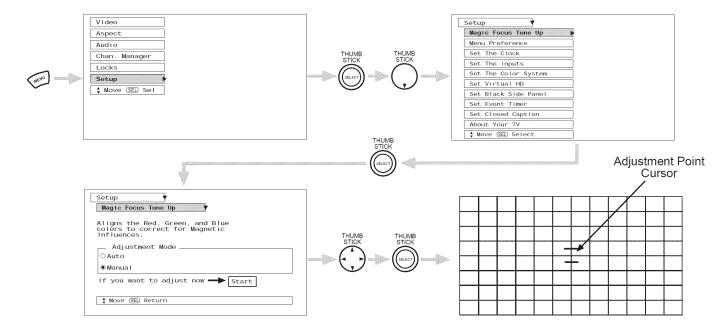
To move the adjustment point cursor using the THUMBSTICK, the Adjustment Cursor must be WHITE. Another way to move the Adjustment Point Cursor is to press the following buttons: [2] up, [4] left, [5] down, [6] right. If you use the number buttons while the adjustment point is WHITE, it will change to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

To Change the Color of Adjustment Point

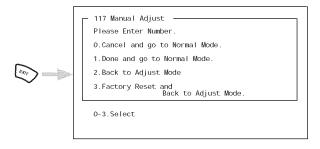
Press the SELECT button repeatedly (WHITE-RED-BLUE-WHITE...). Green color is fixed and cannot be adjusted.

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

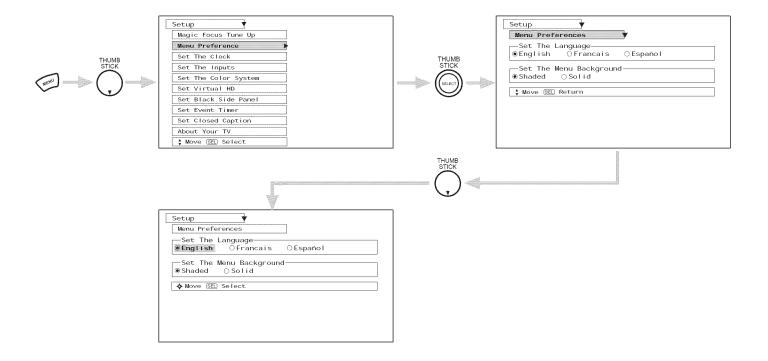
Press the [1] button on the remote control to SAVE adjusted data and return to main picture.

Press the [2] button on the remote control to return to the manual convergence adjustment mode (crosshatch pattern).

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

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.

SETUP

Menu Background

This function allows you to choose from two menu backgrounds.



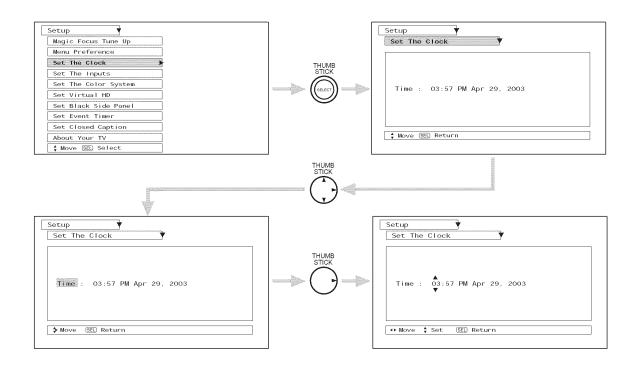
Use THUMB STICK ◀, ▶ to highlight SET THE MENU BACKGROUND (shaded or solid), and press down on THUMB STICK to select setting.

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

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

Set The Clock

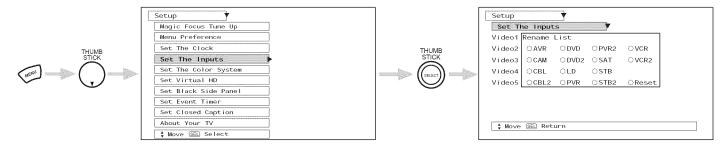
The clock must be adjusted before you can use the "Set Event Timer" or "TV Time Out" features.



Use THUMB STICK ▲ or ▼ to set the time and date. Press THUMB STICK ◀ or ▶ to change position. Press EXIT to quit menu.

Set The Inputs

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

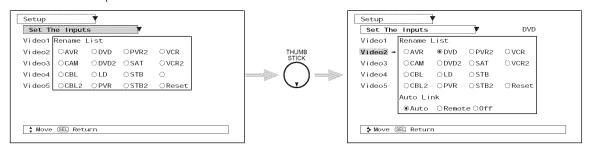


Press THUMB STICK ▲, ▼, ◄, ▶, to highlight the name of the video inputs. Press down on THUMB STICK to select desired input name.

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

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

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

Select Off to disable this function.

Press EXIT to quit menu.

NOTES: 1.

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

SETUP

Set The 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_BP_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 abnormal.
 - 2. You must be tuned to VIDEO: 1 or 2 inputs and have a component hooked up to the Y-PBPR 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.

Set Virtual HD

Use this feature to select between 1080i and 540p (see page 25).

Set Black Side Pane I

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:

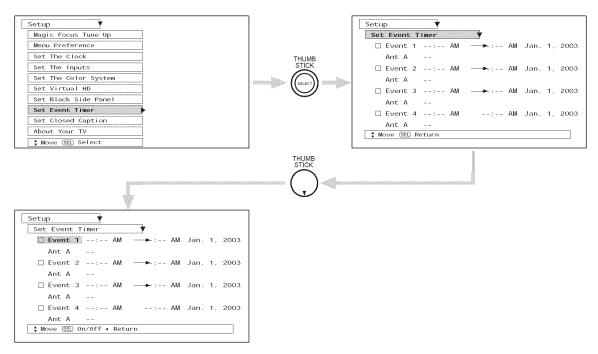
To maximize operating life of the TV's picture tubes when watching 4:3 signal, Black Side Panel is cancelled at Power OFF. It is recommended to watch 4:3 signal with gray side bar.

Set Event Timer

This function will reserve viewing time for a program.

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





Use THUMBSTICK ▲, ▼ to highlight Event 1, Event 2, Event 3 or Event 4 and then press THUMBSTICK to select.

Use THUMBSTICK ▶, ▲, ▼ to highlight and select START TIME Hour/Minute.

Use THUMBSTICK ▶, ▲, ▼ to highlight and select START TIME AM/PM.

Use THUMBSTICK ▶, ▲, ▼ to highlight and select FINISH TIME Hour/Minute.

Use THUMBSTICK ▶, ▲, ▼ to highlight and select FINISH TIME AM/PM.

Use THUMBSTICK ▶ to highlight the MONTH.

Use THUMBSTICK ▲ to select a MONTH or THUMBSTICK ▼ to select Daily, Weekly - Sunday to Monday. Use THUMBSTICK ◀ to return to MONTH.

Use THUMBSTICK ▶, ▲, ▼ to highlight and select the DAY of the MONTH.

Use THUMBSTICK ▶, ▲, ▼ to highlight and select the YEAR.

Press down on THUMBSTICK to return and highlight Record 1.

A "√" in the box means it is enabled.

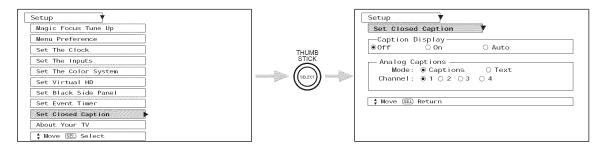
NOTE:

- 1. When the INFO button is pressed, the Event Timer Icon will only display the current date ON/OFF timer.
- 2. 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.
- 3. If no remote control button is pressed after viewing reservation is activated, the TV will automatically turn off after three hours. Therefore, do not Set Event Timer for more than three hours if you do not plan to control your television with the remote control.



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

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

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

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

Text is for additional information such as news reports or a TV program guide. This information covers the entire screen and viewing the TV program is not possible. Text may not be available with every **[CC]** program.

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

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

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

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

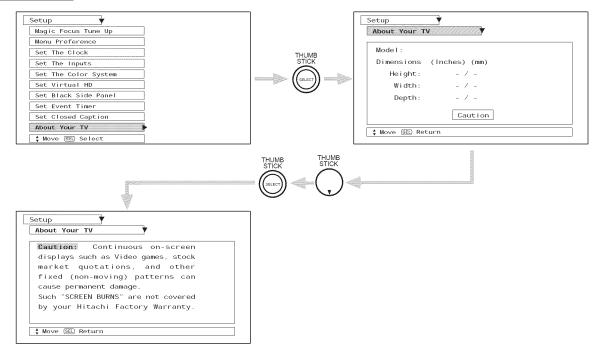
Use THUMB STICK ▲, ▼ to highlight the function to change then press THUMB STICK to change the function. Press EXIT to quit menu or THUMB STICK ◀ to return to previous menu.

NOTE:

- 1. CAPTION DISPLAY will not work when viewing a 480p, 720p, or 1080i input via the COMPONENT: Y-PBPR 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. The set dimensions of the TV model is listed on page 86.





Symbols Used

The following symbols appear below in some headings and notes in this section with the following meanings:

DVD Description refers to playback of DVD video discs.

CD Description refers to playback of audio CDs.

MP3 Description refers to playback of MP3 discs.

Playable Discs

The following discs can be played back on this DVD player.

- DVD video
 DVD-R*
 Audio CD
 CD-R/RW*
 MP3*
- *Depending on the types or the writing method of the medium, some discs can not be played.
- Some DVD-R or CD-R/RW discs made on personal computer, or on DVD recorders may not be played back properly due
 to factors such as scratches, dirt or special properties of the disc.
- Discs made on personal computers may not be played back properly due to different environments or the settings of the application you use. We recommend always to use the standardized, properly formatted discs. (Please contact the sales agency for more detail).

This player conforms to the NTSC color system. You cannot play discs recorded in other color systems such as PAL or SECAM.

- Some discs include region codes as shown on the right.
- The number inside the symbol refers to a region of the world, and a disc encoded in a specific region format can only be played back on a DVD player with the same region code.

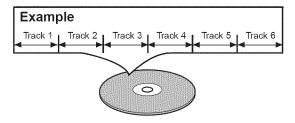
The following discs cannot be played back on this DVD player.

- DVD with region codes other than 1 or ALL
- DVD-ROM
- DVD-RAM
- CD-ROM
- VSD
- CD-G (Only plays back the sound.)
- · CD-
- SACD
- · Photo CD
- Video CD
- CDV (Only plays back the audio part.)
- · Any other discs without compatibility indications.

Disc Types

Audio CD

Data on an audio CD is divided into sections called "tracks", each of which is given a track number.

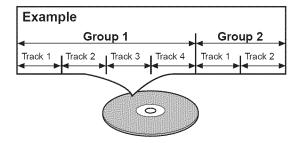


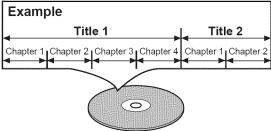
DVD

Data on a DVD is divided into sections called "titles", and then into subsections called "chapters", each of which is given a title or chapter number. Playback conditions are preset on some DVD video discs, and these playback conditions take priority over user operations on this player. If a function you selected does not run as desired, refer to the manual accompanying the disc.

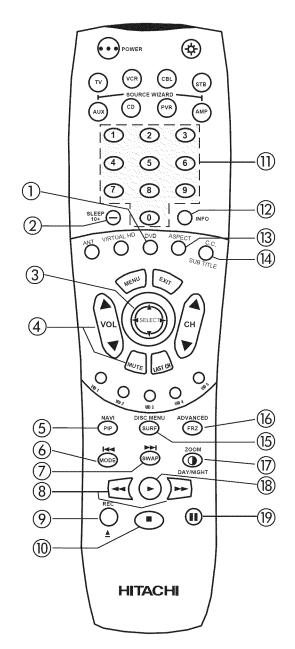
MP3

Data on a MP3 is divided into sections called "groups", and then into subsections called "tracks", each of which is given a group or track number.

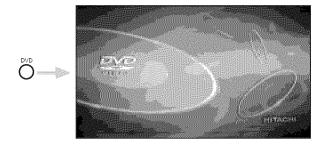








1 DVD button Press this button to switch the TV to DVD mode.

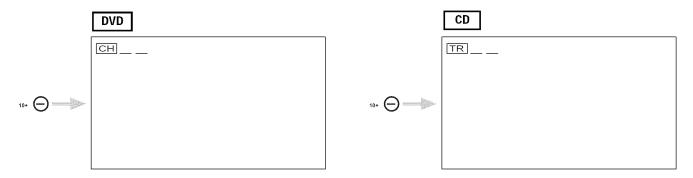


NOTES: 1. If disc is already loaded, playback will start automatically.

2. A Screen Saver will start automatically after 5 minutes if the TV is left on DVD mode without playing a disc.

(2) (10+) button

While in DVD mode, press this button to access the Title/Chapter Search or Track search of the loaded disc.



Use Channel Selector (numerical) buttons to enter the desired Chapter/Title/Track numbers.

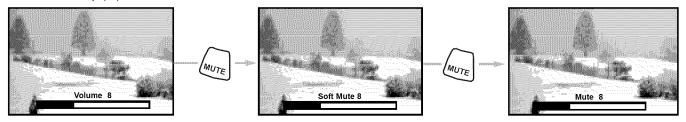
(3) THUMBSTICK/SELECT button

All of the On-Screen Display features on DVD mode can be set or adjusted by using the THUMBSTICK, except for numeric entries. The THUMBSTICK will highlight functions or adjust and set different features. Press the THUMBSTICK toward desired direction and press down to select.

(4) VOLUME, MUTE button

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

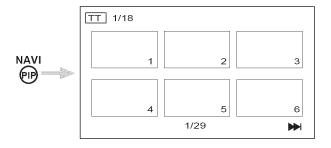
To reduce the sound to one half of normal volume (SOFT MUTE) to answer the telephone, etc., press the MUTE button. Press the MUTE button again to turn the sound off completely (MUTE). To restore the sound, press the MUTE button one more time, or press the VOLUME Up (**A**) button.



Closed Captioning will display when MUTE/SOFT MUTE is on and Closed Caption is set to AUTO (see page 63).

(5) NAVI button (Disc Navigation)

During title playback, press this button to access the Disc Navigation.



Press THUMBSTICK SELECT.

- Playback of the selected chapter will start.
- Press the NAVI button before pressing THUMBSTICK SELECT or PLAY at step 3 will cease the DISC NAVIGATION function, and the playback will be stopped. The resume information will be lost.
- When a disc menu is shown, the DISC NAVIGATION feature does not function.
- DISC NAVIGATION takes a few seconds to respond.
- With some discs, part of the DISC NAVIGATION screen may not be displayed properly. This is not a malfunction.
- Some discs do not support DISC NAVIGATION feature.
- While the DISC NAVIGATION is on the screen, the sound is muted.
- It takes about 28 seconds to display 6 shots.



(6) ⋈ (SKIP) button

During playback, press this button to go back to the beginning of the current chapter/track. Press it repeatedly to go to previous Chapters/Tracks.

(7) ➡ (SKIP) button

During playback, press this button to move to the next Chapter/Track. Press it repeatedly to skip subsequent tracks.

NOTE:

- 1. Title/Chapter/Track number will appear briefly on the top of the screen.
- 2. If SKIP (★★★) is pressed while the playback is paused, th playback will be paused again after skipping to the next Chapter/Track.
- 3. SKIP (►) is not available when playback is stopped.
- (8) ► (Fast Forward), ◄ (Reverse Search) buttons

- · For Audio CDs, the speed is fixed at x16.
- · For MP3, the speed is fixed at x8.

To return to normal playback, press (►) PLAY.

(9) ▲ (OPEN/CLOSE) button

Press this button to open or close the disc loading tray.

(10) **(STOP)** button

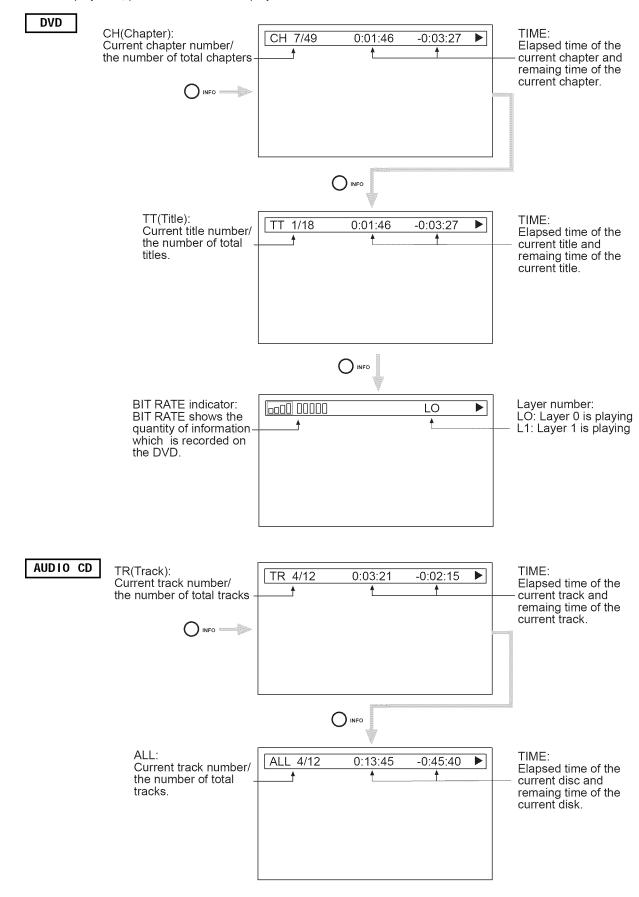
Press this button to stop the playback.

(11) Chapter/Track (Numerical) selector buttons

Press the numerical buttons to enter the desired Chapter/Track number.

(12) INFO button

When in playback, press this button to display information about the disc.





(13) ASPECT button

Press this button to quickly change the picture format aspect ratio (see page 24).

(14) SUBTITLE button

Press this button during playback to select a language for subtitle during DVD disc playback (if available). Press SUBTITLE repeatedly to select your desired subtitle language. The selected language will be displayed on the display bar at the top of the screen. To turn off subtitles, press the button repeatedly until OFF appears.

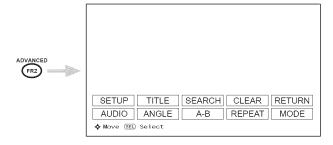
NOTE:

- 1. Selecting AUDIO may not work on some DVDs with multiple audio languages (e.g. DVDs which allow audio language setting on the disc menu).
- 2. Some discs allow audio language setting/subtitle language setting on the disc menu. (Operation varies between discs, so refer to the manual accompanying the disc.)
- 3. If the desired language is not shown after pressing SUBTITLE several times, the disc does not have subtitles in that language.
- 4. If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Subtitle language setting. If you choose any other languages, '---' will be displayed instead.
- (15) DISC MENU button

Press this button to access the DVD disc main menu. Use THUMBSTICK to navigate and select features.

(16) ADVANCED button

Press this button to access Advanced features menu.



Use THUMBSTICK to highlight chosen feature. Press down on THUMBSTICK to select chosen feature.

NOTE: See DVD ADVANCED menu OSD (On-Screen Display) on page 70.

(17) ZOOM button

Press this button during playback to enlarge the video image and to pan through the enlarged image.

Press ZOOM during playback. Playback will continue. Press ZOOM repeatedly to select the required zoom factor: x2, x4, x8 or OFF. Use THUMBSTICK ▲, ▼, ◄, ▶ to move the zoomed picture across the screen. To exit zoom mode, press ZOOM to OFF.

NOTES:

- 1. Zooming function does not work while disc menu is shown.
- 2. x8 zoom is not available on some discs.
- (18) ► (PLAY) button

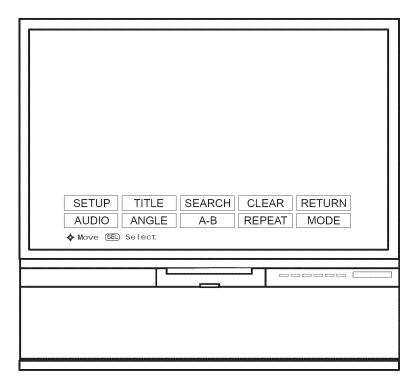
Press this button to start playback and the disc will start from the first chapter or track.

(19) # (PAUSE) button

Press this button during playback to pause the disc. To continue playback, press PLAY.

NOTES: Do not leave the DVD disc in pause mode for long periods of time since it may cause "SCREEN BURNS" which are not covered by your warranty.

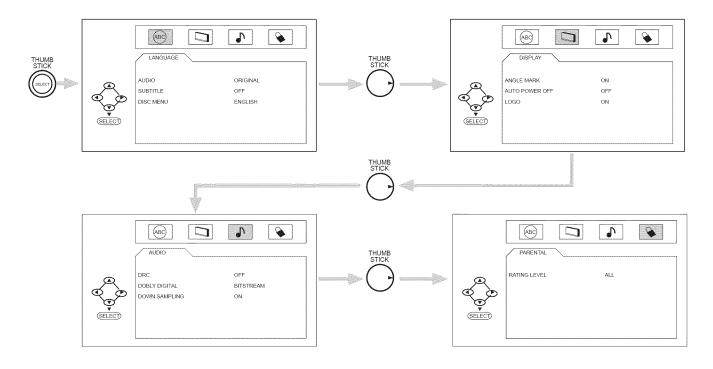
- 1. Press DVD button on remote control to access DVD mode.
- 2. Press ADVANCED button to access DVD ADVANCED menu.
- 3. Use THUMBSTICK to highlight different ADVANCED menu features.
- 4. Press down on THUMBSTICK to select chosen feature.



DVD PLAYER

SETUP

Use this feature to choose the disc Language, Display, Audio and Parental settings.



NOTE: The disc should be in stopped mode for setup to be accessed.

Language

Use this function to choose Audio, Subtitle, and Disc Menu language options.

Audio - Original and the list below.

Subtitle - Off and the list below.

Disc Menu - See list below.

- English
- French
- Spanish
- German
- Italian
- Dutch
- Japanese Chinese
- Korean
- Danish Finnish
- Swedish

- Norwegian
- Icelandic
- Hungarian
- Romanian
- Turkish
- Greek

- Russian
- Irish
- Portuguese
- Others

Press down on THUMBSTICK to select Language.

Use THUMBSTICK ▲, ▼ to highlight language options.

Press down on THUMBSTICK to select language options.

Use THUMBSTICK ▲, ▼ to highlight chosen language.

Press down on THUMBSTICK to select.

Press THUMBSTICK ◀ to return to previous or press EXIT to quit.

NOTE:

- 1. Language Setting for Audio and Subtitle is not available with some discs.
- 2. If OTHERS is selected in the AUDIO, SUBTITLE or DISC MENU screen, press four-digit number to enter the code for the desired language (refer to the language codes listed on the next page).
- 3. Only the languages supported by the disc can be selected.

Language Codes

<u>Language</u>	<u>Code</u>	<u>Language</u>	<u>Code</u>	<u>Language</u>	<u>Code</u>	<u>Language</u>	<u>Code</u>
A-B		Frisian	5271	Malay	5965	Somali	6561
Abkhazian	4748	Galician	5358	Malayalam	5958	Spanish [SPA]	5165
Afar	4747	Georgian	5747	Maltese	5966	Sundanese	6567
Afrikaans	4752	German [GER]	5051	Maori	5955	Swahili	6569
Albanian	6563	Greek [GRE]	5158	Marathi	5964	Swedish [SWE]	6568
Amharic	4759	Greenlandic	5758	Moldavian	5961	T T	
Arabic	4764	Guarani	5360	Mongolian	5960	Tagalog	6658
Armenian	5471	Gujarati	5367	Nauru	6047	Tajik	6653
Assamese	4765	Hausa	5447	Nepali	6051	Tamil	6647
Avmara	4771	Hebrew	5569	Norwegian [NOR]	6061	Tatar	6666
Azerbaijani	4772	Hindi	5455	" `O-R 1		Telugu	6651
Bashkir	4847	Hungarian [HUN]	5467	Occitan	6149	Thai	6654
Basque	5167	i I-K		Oriya	6164	Tibetan	4861
Bengali;Bangla	4860	Icelandic [ICE]	5565	Oromo(Afan)	6159	Tigrinya	6655
Bhutani	5072	Indonesian	5560	Panjabi	6247	Tonga	6661
Bihari	4854	Interlingua	5547	Pashto:Pushto	6265	Tsonga	6665
Bislama	4855	Interlingue	5551	Persian	5247	Turkish [TUR]	6664
Breton	4864	Inupiak	5557	Polish	6258	Turkmen	6657
Bulgarian	4853	Irish [IRI]	5347	Portuguese [POR]	6266	Twi	6669
Burmese	5971	Italian [ITA]	5566	Quechua	6367	U-Z	
Byelorussian	4851	Japanese [JPN]	5647	Rhaeto-Romance	6459	Ukrainian	6757
C-E		Javanese	5669	Romanian [RUM]	6461	Urdu	6764
Cambodian	5759	Kannada	5760	Russian [RUS]	6467	Uzbek	6772
Catalan	4947	Kashmiri	5765	Š		Vietnamese	6855
Chinese [CHI]	7254	Kazakh	5757	Samoan	6559	Volapuk	6861
Corsican	4961	Kinyarwanda	6469	Sangho	6553	Welsh	4971
Croatian	5464	Kirghiz	5771	Sanskrit	6547	Wolof	6961
Czech	4965	Kirundi	6460	Scots Gaelic	5350	Xhosa	7054
Danish [DAN]	5047	Korean [KOR]	5761	Serbian	6564	Yiddish	5655
Dutch [DUT]	6058	Kurdish	5767	Serbo-Croatian	6554	Yoruba	7161
English [ENG]	5160	L-N		Sesotho	6566	Zulu	7267
Esperanto	5161	Laothian	5861	Setswana	6660		
Estonian	5166	Latin	5847	Shona	6560		
F-H		Latvian;Lettish	5868	Sindhi	6550		
Faroese	5261	Lingala	5860	Singhalese	6555		
Fiji	5256	Lithuanian	5866	Siswat	6565		
Finnish [FIN]	5255	Macedonian	5957	Slovak	6557		
French [FRE]	5264	Malagasy	5953	Slovenian	6558		
-							

NOTE: If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Audio or Subtitle language setting on page 71. If you choose any other languages, '---' will be displayed instead. (3 letter language code is written in bracket.)

DVD ADVANCED MENU

DISPLAY

Use this feature to choose display settings.

Angle Mark

- · The default setting is ON.
- · Press THUMBSTICK SELECT repeatedly to turn Angle Mark ON or OFF.

Auto Power Off

- · The default setting is OFF.
- · Press THUMBSTICK SELECT repeatedly to turn Auto Power ON or OFF.

Logo

- The default setting is ON.
- Press THUMBSTICK SELECT repeatedly to turn Logo ON (DVD opening picture)/OFF (Black).

Audio

Use this feature to choose appropriate Audio settings.

DRC (Dynamic Range Control)

Use this function to compress the range of sound volume.

· The default setting is OFF.

Dolby® Digital

DOLBY OL GITAL

Use this function to set to BITSTREAM when using the TV's Optical Out (Digital Audio) connected to a Dolby® Digital Decoder.

- · BITSTREAM: Output by Dolby Digital
- · PCM: Convert the Dolby Digital to PCM
- The default setting is BITSTREAM

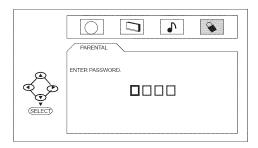
NOTE: *Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Down Sampling

- Set to ON when outputting in 48kHz.
- The default setting is ON>
 - When playing a disc with copyright Protection:
- · If you select OFF, copyright protection will be activated and sound will be down sampled at 48kHz.

PARENTAL

Use this function to set the rating level of your DVD discs. Playback will stop if the disc's ratings exceed the level you set.



Use Numerical buttons to enter your four-digit password, the press THUMBSTICK SELECT.

Press THUMBSTICK ▲, ▼ to select PARENTAL LEVEL.

Press THUMBSTICK SELECT.

Press THUMBSTICK ▲, ▼ to select the desired level.

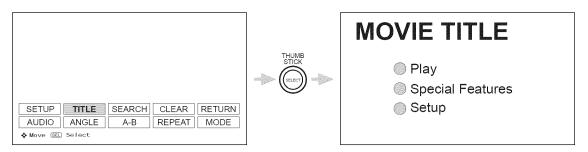
Press ◀ to return to previous or press EXIT to quit.

NOTE:

- 1. When doing this for the first time, enter any 4 digits (except for 7777). That number will be used as the password from the second time onward.
- 2. To change the password, press ◀, ▶ to select CHANGE, then press ENTER. Enter the four-digit password, then press ENTER.
- 3. With some DVDs, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
- 4. Record the password in case you forget it.
- 5. If you forget the password press 7, 7, 7, 7 at step 4. The password will be cleared and parental level will be set to ALL.

TITLE

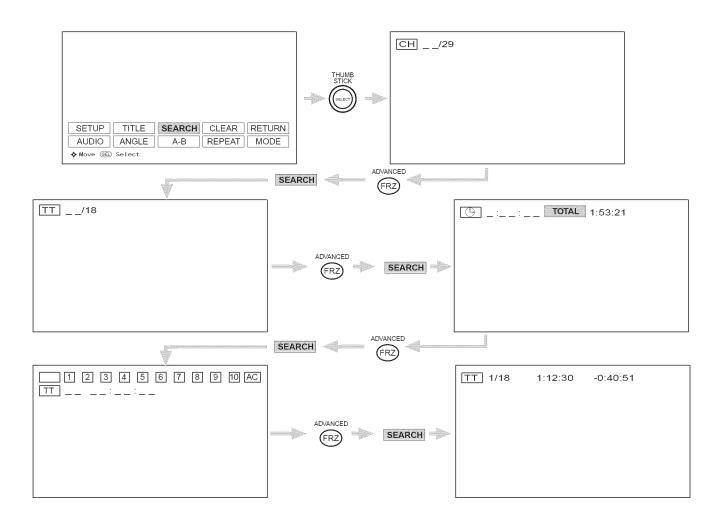
Use this feature to access the DVD disc main menu.



Use THUMBSTICK \blacktriangle , \blacktriangledown , \blacktriangleright , \blacktriangleright to highlight function Press down on THUMBSTICK to select.

SEARCH

Use this feature to access the Chapter/Track/Time search of the disc.



CLEAR

Use this feature to clear previous menu settings.

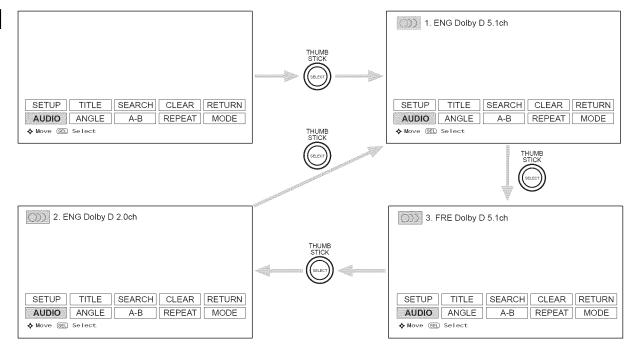
RETURN

Use this function to return to the previous menu window or exit ADVANCED menu.

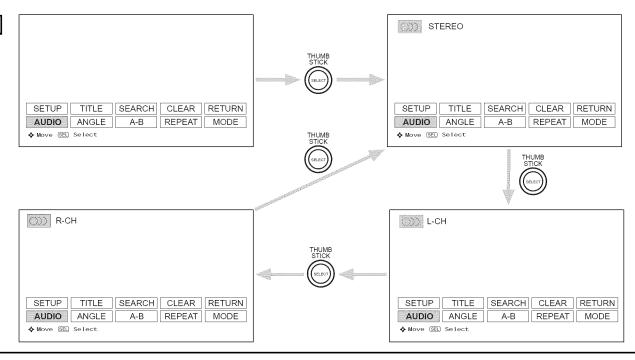
AUDIO

Use this feature to choose desired Audio language.





CD



NOTE:

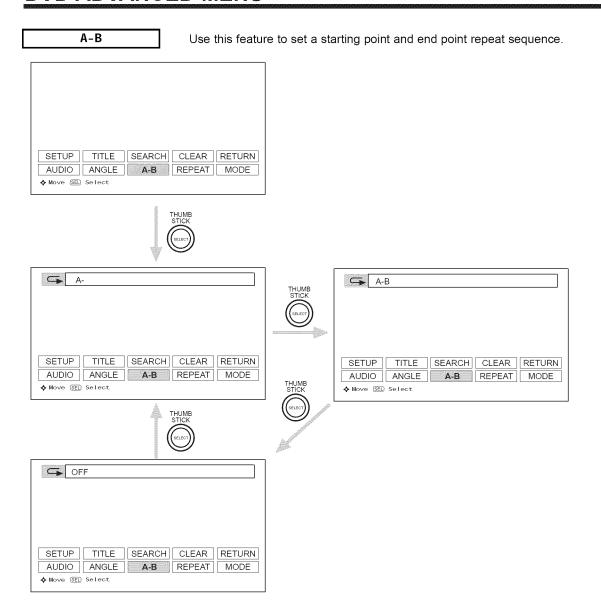
- 1. The audio language can be changed if multiple languages are recorded on the DVD being played.
- 2. For some Audio Languages, three dashes (---) may appear instead of a three-letter abbreviation for language (ENG, FRE, etc.).

ANGLE

Use this feature to choose desired camera angle (if available).

NOTE: Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the (🕮) mark appears on the screen.

DVD ADVANCED MENU



Press A-B repeat at your chosen starting point.

☐ A- appears briefly on the TV screen

Press A-B repeat again at your chosen end point.

☐ A-B appears briefly on the TV screen, and the repeat sequence begins.

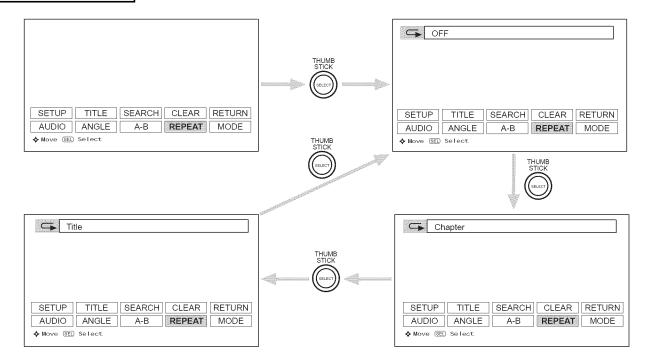
To exit the sequence, press A-B REPEAT.

NOTES:

- 1. The A-B repeat section can only be set within the current title (for DVDs), or current track (for audio CDs).
- 2. A-B repeat is not available with some scenes in DVD.
- 3. To cancel the A point which was set, press CLEAR.
- 4. A-B Repeat playback does not function during title, chapter, track or all repeat playback.

REPEAT

Use this feature to activate repeat function.



DVD

The repeat mode changes as described below every time you press the button.



NOTES:

- 1. Repeat Title/Chapter is not available with some scenes.
- 2. The REPEAT setting will be cleared when moving to other title or chapter.

CD

To activate the repeat function, press REPEAT during playback.

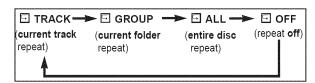
The repeat mode changes as described below every time you press the button.



NOTES:

- 1. The REPEAT setting will be cleared when moving to other track.
- 2. Repeat playback does not function during A-B repeat playback.

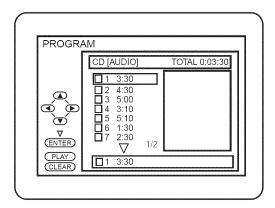
MP3



DVD ADVANCED MENU

MODE

Use this feature to program tracks for Audio CDs and MP3 discs. The disk should be in stop mode.



Press ADVANCED button, the select MODE to go to PROGRAM mode.

Press THUMBSTICK ▲, ▼ to highlight a track, then press THUMBSTICK SELECT.

Press ADVANCED button, then select CLEAR to erase the most recently entered track.

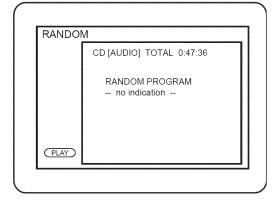
Press PLAY to start playback of programmed tracks.

NOTES:

- 1. While the program is being played back, the STOP works as follows.
- 2. Press STOP once and then PLAY again, playback will restart from the point where STOP was pressed. (Program continued).
- 3. Press STOP twice and then PLAY again, playback will restart from the track in the usual way. (Program cleared).
- 4. Up to 99 programs can be entered.
- 5. If you wish to repeat the current track in the program, press REPEAT repeatedly until TRACK appears during playback. If you wish to repeat the entire program press REPEAT repeatedly until ALL appears during playback.

Random Playback

Use this function to shuffle the playing order of tracks instead of playback in the original sequence.



In stop mode, press ADVANCED button, then select MODE.

Press ADVANCED button, then select MODE again.

Press PLAY to start random playback.

NOTE:

If you wish to repeat the current track in the random selection, press REPEAT repeatedly until TRACK appears during playback. If you wish to repeat the entire random selection press REPEAT repeatedly until ALL appears during playback.

Basic Playback

DVD

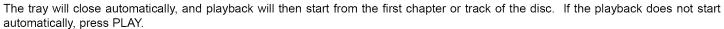
CD

Press POWER button on remote control to turn ON TV.

Press OPEN/CLOSE to open disc loading tray.

Place the chosen disc in the tray, with the label facing up.

Press PLAY.



When you playback the DVD with a title menu is recorded, it may appear on the screen. In this case, refer to "TITLE MENU". Press STOP to stop playback.

NOTES:

- 1. A "prohibited red icon" may appear at the top-right on the TV screen during operation, warning that a prohibited operation has been encountered by the DVD player or the disc.
- 2. With DVDs that use some titles for playback program signals, play may start from the second title, or it may skip these titles.
- 3. During the playback of two layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.

PAUSE

DVD

CD

During playback, press PAUSE/STEP.

Playback will pause and sound will be muted.

To continue playback, press PLAY.

DISC MENUS

DVD

Press DISC MENU.

The DVD main menu will appear.

If the feature is not available, \bigcirc symbol may appear on the TV screen.

If disc menu is available on the disc, audio language, subtitle options, chapters for the title and other options will appear for selection.

Press THUMBSTICK ▲, ▼, ◀ or ▶ to select an item, and SELECT to confirm selection.

Step-by-Step Playback

DVD

During playback, press PAUSE/STEP.

Playback will pause and sound will be muted.

The disc advances by one frame each time PAUSE/STEP is pressed.

To exit step by step playback, press PLAY.

Resume

DVD

CD

During playback, press STOP.

Resume message will appear on the TV screen.

Press PLAY, playback will resume from the point at which playback was stopped.

To cancel resume, press STOP twice.

NOTE: The resume playback takes a little longer to take place compared to the normal playback.

Fast Forward/Reverse Search

DVD

CD

MP3

During playback, press ◀or ➤ repeatedly on the remote control to select the required forward or reverse speed: x2, x8, x50, x100. If you are using SKIP ► FF ➤ or SKIP ◄ on the front panel, press and hold it for more than 1.5 sec. Press SKIP and hold for more than 1.5 sec. to select x2. Release and press SKIP again and hold for more than 1.5 sec. to select x8. Repeat step for x50 and x100. For audio CDs, the speed is fixed at x16. For MP3, the speed is fixed at x8.

To return to normal playback, press PLAY.

Slow Forward/Slow Reverse

DVD

CD

MP3

During playback, press PAUSE/STEP.

Press ≪or ▶ . Slow motion playback will begin and sound will be muted.

Press ◀ or ▶ repeatedly to select the required speed: 1/16, 1/8, 1/2 of the normal playback. If you are using SKIP ► / FF ➤ or SKIP ► / FR ← on the front panel, press and hold it for more than 1.5 seconds. Press SKIP and hold for more than 1.5 seconds to select 1/16. Release and press SKIP again and hold for more than 1.5 seconds to select 1/8. Repeat step for 1/2.

To return to normal playback, press PLAY.

PLAYING A DISC

Track

CD

There are three ways to begin playback on an Audio CD at a specific Track.

Using the numerical buttons:

Press numerical buttons to enter the desired Track number. Playback will start at the selected track. For single digit tracks (1-9), press a single number (eg. track 3, press 3). To play track 26, press +10, 2, 6 on the numerical button.

Using the search mode:

Press SEARCH MODE. The track search display appears. Within 30 seconds, select a desired track number using numerical buttons. For single digits press "0" first. Playback will start at the selected track.

Using the SKIP < / ▶ :

During playback, press SKIP ➡ to move to the next track. Press it repeatedly to skip subsequent tracks. Press SKIP ➡ to go back to the beginning of the current track. Press it repeatedly to go to the previous tracks. Track number will appear briefly on the DVD display panel. If SKIP is pressed while the playback is paused, the playback will be paused again after skipping to the next track.

NOTE:

- 1. SKIP ◄ / ▶ are not available when playback is stopped.
- 2. Numercial buttons will not work when mode or random playback are selected.

Title/Chapter Search

DVD

Press SEARCH MODE once for the Chapter search, twice for the Title search during playback.



Enter the desired chapter/title number using numerical buttons.

Time Search

DVD



In stop mode, press ADVANCED button, SEARCH three times (CD: twice) to display the Time Search on the TV screen (see page 75). Within 30 seconds, enter a desired Title time for DVDs and Track time for CDs using numerical buttons. Playback will start at the specified time. Press CLEAR to erase the incorrect input.

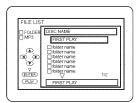
Repeat

REPEAT is available only during playback.

MP3 Playback

MP3

When a CD with MP3 files is inserted in the DVD player, playback will automatically start from the first track. Press STOP button and the MP3 menu will appear on the TV screen.



In stop mode, press ▲ or ▼ to select the desired group or track.

If a group is selected, press ▶ or THUMBSTICK SELECT to go to the track selection screen. Press ▲ or ▼ to choose a track, then press PLAY or SELECT to start playing tracks. Starting from the one you've just chosen the subsequent tracks will be played. Select FIRST PLAY to start playback from the beginning of the listed tracks.

Press STOP to stop playback.

NOTE:

- 1. Folder are known as Groups; files are known as tracks.
- 2. MP3 files are accompanied by 🗓 icon.
- 3. Maximum of 255 folders can be recognized.
- 4. Maximum of 256 files can be recognized.
- 5. Up to 8 hierarchies can be created.
- 6. This player recommends the use of files recorded with the following specifications: Sampling frequency: 44.1kHz or 48kHz. Constant bit rate: 112kbps~320kbps.

On-Screen Information

MP3

You can check the MP3 files during playback.

Press INFO. The name of the file currently in play will be displayed.

Press INFO again to show the track number, the elapsed time, the repeat status, and the playback status at the top of the screen.

will be displayed when the repeat play has been selected.

☐ T - indicates Track repeat

G - indicates Group (folder) repeat.

☐ A - indicates Disc repeat.

Press ◀ to go to previous or press EXIT to quit.

Track Selection

MP3

Select SEARCH at ADVANCED menu. The FILE LIST will appear.

Select a desired track using Arrow ▲, ▼, ◄, ▶. Press ▶ when you want to go to the next hierarchy. Press ◀ when you want to go back to the previous hierarchy.

Press PLAY to start playing.

NOTES:

- 1. Select SEARCH or RETURN at ADVANCED menu to quit.
- 2. Some selections may require additional time to be recognized.

Random Playback

MP3

Press ADVANCED button and select MODE twice while playback is stopped.

Press PLAY to play the tracks in random order.

Program

MP3

This feature allows you to program a mp3 disc to play in a desired sequence.

Press ADVANCED button and select MODE while playback is stopped. The PROGRAM screen will appear.

Press THUMBSTICK ▲, ▼, ◀, ▶ to navigate through the groups to select the desired track. Then press THUMBSTICK SELECT to save it on a program.

Press Clear to erase the incorrect input.

Press PLAY to start programmed playback.

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" 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.

Cleaning Discs

When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out. Do not wipe in a circular motion.

Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analogue records.

Cleaning the Disc Lens

If the player still does not perform properly when it is operated while referring to the relevant sections in this Instruction Book, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

Disc Handling

Use discs which have the following logos on them: (Optical audio digital disc.)





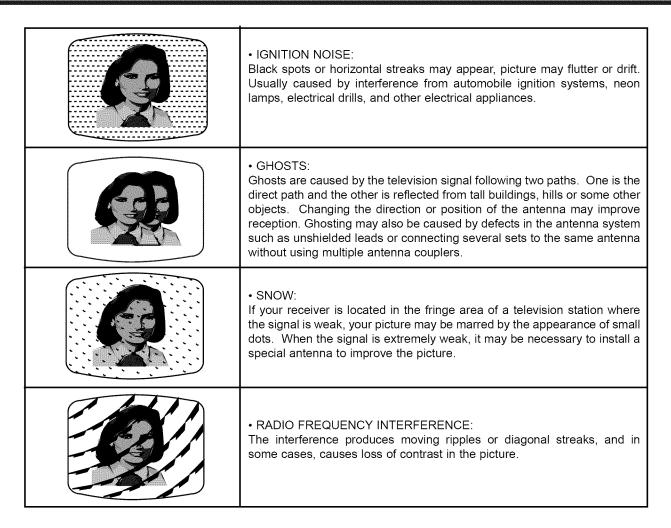




Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.

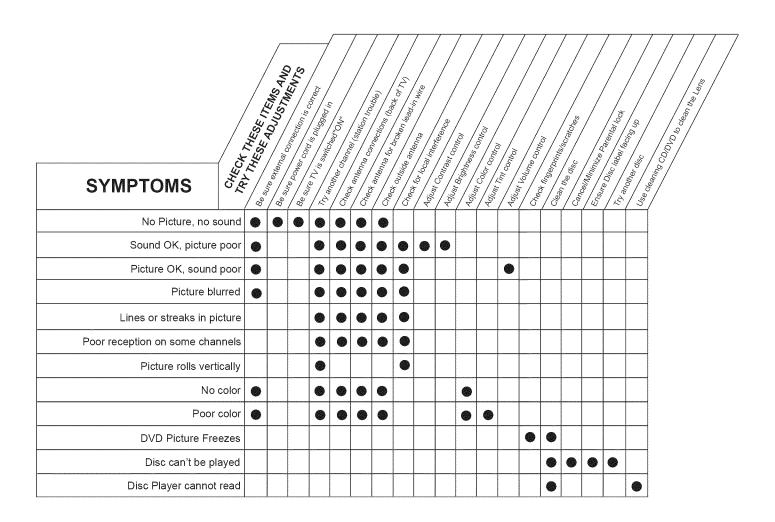
Always store the disc in its protective case when it is not used.





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





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.)
- New Easy-to-Use (3-Language) On-Screen Menu
- · Full Set of Input Jacks, including S-VIDEO
- COMPONENT VIDEO: Y-P_B/P_R
- Velocity Modulation
- Six Aspect Modes
- · 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.
- DVD/CD Player
- Technology.
- SRS Technology.
- DI DOLBY Technology.

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

Inputs:

•	Power InputAC 120V, 60Hz
•	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
	Video
	S-Video
•	
	Luminance (Y)
	Chrominance (C)0.286Vp-p, 75 Ohm
•	Component Video
	Luminance (Y)
	Chrominance (P _B /P _R) 0.7Vp-p, 75 Ohm
	Audio input Impedance
•	Average input level
•	DVI - HDTVDVI 25pin

Dimensions:

		46W500
•	Height (in.) (mm)	39 13/16 1,011.0
•	Width (in.) (mm)	44 7/16 1,128.0
•	Depth (in.) (mm)	24 1/2 622.0
•	Weight (lbs.)	168

NOTE:

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

Outputs:

•	Video	1.0Vp-p. 75 Ohm
•	Audio (Fixed)	470mVrms, 1k Ohm
_	Ontical Out (Digital Audia)	1 antical connector

Optical Out (Digital Audio) 1 optical connector



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 900 Hitachi Way Chula Vista, CA 91914-9943



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 français de votre manual se trouve a l'exterieur 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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